

# WOOL FIBERGLASS MANUFACTURING

## Operating Limits

**It is recommended that, prior to performing the on-site inspection, the inspector review the performance test results for information on special performance conditions that were imposed on the facility to meet the emission limits specified in §63.1382(a). Much of the information sought in this section should be obtained from the required records indicated in the previous section.**

### A. BAGHOUSE

1.	Is the facility using a baghouse to control PM emissions from its glass melting furnace? <b>【§63.1383(b)】</b>  <i>Note:</i> If the answer to this question is “No”, skip to B	Yes [ ] No [ ]
2.	Did the facility	
a.	initiate corrective action within 1 hour of an alarm from a bag leak detection system (BLDS)? <b>【§63.1382(b)(1)(i)】</b>	Yes [ ] No [ ]
b.	complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan (OMMP)? (see section?) <b>【§63.1382(b)(1)(i)】</b>	Yes [ ] No [ ]
3.	Did the facility implement a Quality Improvement Plan (QIP) when the BLDS alarm is sounded for more than 5 percent of the total operating time in a 6-month block reporting period? <b>【§63.1382(b)(1)(ii)】</b>	Yes [ ] No [ ]

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### B. ELECTROSTATIC PRECIPITATOR (ESP)

1.	Is the facility is using an ESP to control particulate emissions? <b>【§63.1382(b)(2)】</b>  <i>Note:</i> If the answer to this question is “No”, skip to C	Yes [ ] No [ ]
2.	Did the facility	
a.	initiate corrective action within 1 hour when any 3-hour block average of the monitored ESP parameter is outside the limit(s) established during the performance test? <b>【§63.1382(b)(2)(i)/§1384(a)(5)】</b>	Yes [ ] No [ ] N/A [ ]

b. complete corrective actions in a timely manner according to the procedures in the OMMP? <b>[\$63.1382(b)(2)(i)/§1384(a)(5)]</b>	Yes [ ] No [ ] N/A [ ]
3. Did the facility implement a QIP when the monitored ESP parameter is outside the limit(s) established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(2)(ii)/§1384(a)(5)]</b>	Yes [ ] No [ ] N/A [ ]
4. Did the facility operate the ESP such that the monitored ESP parameter is not outside the limit(s) established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(2)(iii)/§1384(a)(5)]</b>	Yes [ ] No [ ]

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**C. COLD TOP ELECTRIC FURNACE (WITHOUT ADD-ON COTROLS)**

1. Is the facility operating a cold top electric furnace that does not use any add-on controls to control PM emissions? <b>[\$63.1382(b)(3)]</b>  <i>Note: If the answer to this question is "No", skip to D</i>	Yes [ ] No [ ]
2. Did the facility  a. initiate corrective action within 1 hour when any 3-hour block average temperature as measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface, exceeds 120 deg.C (250 deg.F)? <b>[\$63.1382(b)(3)(i)/§1384(a)(6)]</b>	Yes [ ] No [ ] N/A [ ]
b. complete corrective actions in a timely manner according to the procedures in the OMMP? <b>[\$63.1382(b)(3)(i)/§1384(a)(6)]</b>	Yes [ ] No [ ] N/A [ ]
3. Did the facility implement a QIP when the temperature, as measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface, exceeds 120 deg.C (250 deg.F) for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(3)(ii)/§1384(a)(6)]</b>	Yes [ ] No [ ] N/A [ ]
4. Does the facility operate the cold top electric furnace such that the temperature does not exceed 120 deg.C (250 deg.F) as measured at a location 46 to 61 centimeters (18 to 24 inches) above the molten glass surface, for more than 10 percent of the total operating time in a 6-month reporting period? <b>[\$63.1382(b)(3)(iii)/§1384(a)(6)]</b>	Yes [ ] No [ ]

Comments: \_\_\_\_\_

**D. GLASS-MELTING FURNACE, WITH NO ADD-ON CONTROLS AND WHICH IS NOT A COLD TOP ELECTRIC FURNACE**

<p>1. Is the facility is operating a glass-melting furnace, with no add-on controls and which is not a cold top electric furnace? <b>[\$63.1382(b)(4)]</b></p> <p><i>Note:</i>The answer to this question should be “Yes” if the answer is “No” to questions 1, for A, B and C above</p>	<p>Yes [ ] No [ ]</p>
<p>2. Did the facility</p> <p>a. initiate corrective action within 1 hour when any 3-hour block average value for the monitored parameter(s) for this operation is outside the limit(s) established during the performance test? <b>[\$63.1382(b)(4)(i)/\$63.1384(a)(7)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>b. complete corrective actions in a timely manner according to the procedures in the OMMP? <b>[\$63.1382(b)(4)(i)/\$63.1384(a)(7)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>3. Did the facility implement a QIP when the monitored parameter(s) for this operation is outside the limit(s) established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(4)(ii)/\$63.1384(a)(7)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>4. Is the facility operating this source, such that the monitored parameter(s) is not outside the limit(s) established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(4)(iii)/\$63.1384(a)(7)]</b></p>	<p>Yes [ ] No [ ]</p>

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**E. GLASS-MELTING FURNACE**

<p>1. Did the facility</p> <p>a. initiate corrective action within 1 hour when the average glass pull rate of any 4-hour block period exceeded the average glass pull rate established during the performance test by greater than 20 percent? <b>[\$63.1382(b)(5)(i)/\$63.1384(a)(3)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>b. complete corrective actions in a timely manner according to the procedures in the OMMP? <b>[\$63.1382(b)(5)(i)/\$63.1384(a)(3)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>

2. Did the facility implement a QIP when the glass pull rate exceeds, by more than 20 percent, the average glass pull rate established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(5)(ii)]/\$63.1384(a)(3)]</b>	Yes [ ] No [ ] N/A [ ]
3 Does the facility operate each glass-melting furnace such that the glass pull rate does not exceed, by more than 20 percent, the average glass pull rate established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(5)(iii)]/\$63.1384(a)(3)]</b>	Yes [ ] No [ ]

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**F. INCINERATOR**

1. Is the facility using an incinerator to control formaldehyde emissions from from its RS or FA lines? <b>[\$63.1382(b)(6)]</b>  <i>Note: If the answer to this question is "No", skip to G</i>	Yes [ ] No [ ]
2. Has it been operating in such a way that any 3-hour block average temperature in the firebox did not fall below the average established during the performance test? <b>[\$63.1382(b)(6)/ \$63.1384(a)(12)]</b>	Yes [ ] No [ ]

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**G. SCRUBBER**

1. Is the facility operating wet scrubbing control device to control emissions from its RS or FA lines? <b>[\$63.1382(b)(7)]</b>  <i>Note: If the answer to this question is "No", skip to H</i>	Yes [ ] No [ ]
2. Did the facility  a. initiate corrective action within 1 hour when the average pressure drop, liquid flow rate, or chemical feed rate for any 3-hour block period is outside the limits established during the performance test? <b>[\$63.1382(b)(7)(i)]/\$63.1384(a)(11)]</b>	Yes [ ] No [ ]  N/A [ ]
b. complete corrective actions in a timely manner according to the procedures in the OMMP? <b>[\$63.1382(b)(7)(i)]/\$63.1384(a)(11)]</b>	Yes [ ] No [ ] N/A [ ]

<p>3. Did the facility implement a QIP when any scrubber parameter is outside the limit(s) established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(7)(ii)/\$63.1384(a)(11)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>4. Has the facility been operating each scrubber such that each monitored parameter is not outside the limit(s) established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(7)(iii)/\$63.1384(a)(11)]</b></p>	<p>Yes [ ] No [ ]</p>

**Comments:** \_\_\_\_\_  
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**H. PROCESS MODIFICATIONS**

<p>1. Is the facility is using process modification(s) to control formaldehyde emissions? <b>[\$63.1382(b)(8)]</b></p> <p><i>Note:</i>The answer to this question should be “Yes” if the answer is “No” to questions 1, for F and G above</p>	<p>Yes [ ] No [ ]</p>
<p>2. Did the facility</p> <p>a. initiate corrective action within 1 hour when the monitored process parameter level(s) is outside the limit(s) established during the performance test? <b>[\$63.1382(b)(8)(i)/\$63.1384(a)(10)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>b. complete corrective actions in a timely manner according to the procedures in the operations, maintenance, and monitoring plan? <b>[\$63.1382(b)(8)(i)/\$63.1384(a)(10)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>2. Did the facility implement a QIP when the process parameter(s) is outside the limit(s) established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(8)(ii)/\$63.1384(a)(10)]</b></p>	<p>Yes [ ] No [ ] N/A [ ]</p>
<p>3. Did the facility operate the process modifications such that the monitored process parameter(s) is not outside the limit(s) established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period? <b>[\$63.1382(b)(8)(iii)/\$63.1384(a)(10)]</b></p>	<p>Yes [ ] No [ ]</p>

**Comments:** \_\_\_\_\_  
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**I. RESIN BINDER**

<p>1. Is the facility using a resin in the formulation of binder such that the free-formaldehyde content of the resin used does not exceed the free-formaldehyde range contained in the specification for the resin used during the performance test ? <b>[\$63.1382(b)(9)/§63.1384(a)(9)]</b></p>	<p>Yes [ ] No [ ]</p>
<p>2. Is the facility using a binder formulation that does not vary from the specification and operating range established and used during the performance test? <b>[\$63.1382(b)(10)/§63.1384(a)(9)]</b></p> <p><i>Note:</i> For the purposes of this standard, adding or increasing the quantity of urea and/or lignin in the binder formulation does not constitute a change in the binder formulation.</p>	<p>Yes [ ] No [ ]</p>

**Comments:** \_\_\_\_\_

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