Environmental Protection Agency

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For the following control technique . . . you must . . .

10. any of the control techniques specified in this table.
   a. if you wish to establish alternative operating parameters, submit the application
      for approval of the alternative operating parameters no later than the notification
      of the performance test or CEMS performance evaluation or no later than 60
      days prior to any other initial compliance demonstration;
   b. the application must include: information justifying the request for alternative op-
      erating parameters (such as the infeasibility or impracticality of using the oper-
      ating parameters in this final rule); a description of the proposed alternative con-
      trol device operating parameters; the monitoring approach; the frequency of
      measuring and recording the alternative parameters; how the operating limits are
      to be calculated; and information documenting that the alternative operating pa-
      rameters would provide equivalent or better assurance of compliance with the
      standard;
   c. install, operate, and maintain the alternative parameter monitoring systems in
      accordance with the application approved by the Administrator;
   d. establish operating limits during the initial compliance demonstration based on
      the alternative operating parameters included in the approved application; and
   e. maintain the daily average alternative operating parameter values within the val-
      ues established during the compliance demonstration.

11. alternative control technique ..............................
   a. submit for approval no later than the notification of the performance test or
      CEMS performance evaluation or no later than 60 days prior to any other initial
      compliance demonstration a proposed site-specific plan that includes: a descrip-
      tion of the alternative control device; test results verifying the performance of the
      control device; the appropriate operating parameters that will be monitored; and
      the frequency of measuring and recording to establish continuous compliance
      with the operating limits;
   b. install, operate, and maintain the parameter monitoring system for the alternative
      control device in accordance with the plan approved by the Administrator;
   c. establish operating limits during the initial compliance demonstration based on
      the operating parameters for the alternative control device included in the ap-
      proved plan; and
   d. maintain the daily average operating parameter values for the alternative control
      technique within the values established during the compliance demonstration.


Table 3 to Subpart UUUU of Part 63—Initial Compliance With Emission Limits and Work Practice Standards

As required in §§63.5530(a) and 63.5535(g) and (h), you must demonstrate initial compliance with the appropriate emission limits and work practice standards according to the require-
mments in the following table:

<table>
<thead>
<tr>
<th>For . . .</th>
<th>at . . .</th>
<th>for the following emission limit or work practice standard . . .</th>
<th>you have demonstrated initial compliance if . . .</th>
</tr>
</thead>
</table>
| 1. the sum of all viscose process vents. | a. each existing cellulose food casing operation. | i. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 25% based on a 6-month rolling average; 
ii. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and 
iii. comply with the work practice standard for closed-vent systems. | (1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineer-
ing assessments, are reduced by at least 25%; 
(2) you have a record of the range of operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 25%; 
(3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and 
(4) you comply with the initial compliance requirements for closed-vent systems. |
<table>
<thead>
<tr>
<th>For . . .</th>
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<th>you have demonstrated initial compliance if . . .</th>
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<tr>
<td>b. each new cellulose food casing operation.</td>
<td>i. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 75% based on a 6-month rolling average; ii. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and iii. comply with the work practice standard for closed-vent systems.</td>
<td>(1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 75%; (2) you have a record of the range of operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 75%; (3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and (4) you comply with the initial compliance requirements for closed-vent systems.</td>
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<td>c. each existing rayon operation.</td>
<td>i. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 35% within 3 years after the effective date based on a 6-month rolling average; for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and comply with the work practice standard for closed-vent systems; and ii. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 40% within 8 years after the effective date based on a 6-month rolling average; for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and comply with the work practice standard for closed-vent systems.</td>
<td>(1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 35% within 3 years after the effective date; (2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 35%; (3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and (4) you comply with the initial compliance requirements for closed-vent systems; and (1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 40% within 8 years after the effective date; (2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 40%; (3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of the total sulfide emissions; and (4) you comply with the initial compliance requirements for closed-vent systems.</td>
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For . . . at . . .

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<tr>
<td>you have demonstrated initial compliance if . . .</td>
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**d. each new rayon operation.**

1. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 75%; based on a 6-month rolling average;
2. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and
3. comply with the work practice standard for closed-vent systems.

(1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 75%;
(2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 75%;
(3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and
(4) you comply with the initial compliance requirements for closed-vent systems.

**e. each existing or new cellulosic sponge operation.**

1. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 75% based on a 6-month rolling average;
2. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and
3. comply with the work practice standard for closed-vent systems.

(1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 75%;
(2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 75%;
(3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and
(4) you comply with the initial compliance requirements for closed-vent systems.

**f. each existing or new cellophane operation.**

1. reduce total uncontrolled sulfide emissions (reported as carbon disulfide) by at least 75% based on a 6-month rolling average;
2. for each vent stream that you control using a control device (except for retractable hoods over sulfuric acid baths at a cellophane operation), route the vent stream through a closed-vent system to the control device; and
3. comply with the work practice standard for closed-vent systems.

(1) the average uncontrolled total sulfide emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 75%;
(2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total sulfide emissions were reduced by at least 75%;
(3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of total sulfide emissions; and
(4) you comply with the initial compliance requirements for closed-vent systems.
<table>
<thead>
<tr>
<th>For . . .</th>
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<th>you have demonstrated initial compliance if . . .</th>
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<tr>
<td>2. the sum of all solvent coating process vents.</td>
<td>a. each existing or new cellophane operation.</td>
<td>i. reduce uncontrolled toluene emissions by at least 95% based on a 6-month rolling average; ii. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and iii. comply with the work practice standard for closed-vent systems.</td>
<td>(1) the average uncontrolled toluene emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 95%; 2. you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled toluene emissions were reduced by at least 95%; 3. you prepare a material balance that includes the pertinent data used to determine the percent reduction of toluene emissions; and 4. you comply with the initial compliance requirements for closed-vent systems.</td>
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<tr>
<td>3. the sum of all cellulose ether process vents.</td>
<td>a. each existing or new cellulose ether operation using a performance test to demonstrate initial compliance; or. b. each existing or new cellulose ether operation using a material balance compliance demonstration to demonstrate initial compliance.</td>
<td>i. reduce total uncontrolled organic HAP emissions by at least 99%; ii. for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and iii. comply with the work practice standard for closed-vent systems; or</td>
<td>(1) average uncontrolled total organic HAP emissions, measured during the performance test or determined using engineering estimates are reduced by at least 99%; 2. you have a record of the average operating parameter values over the performance test during which the average uncontrolled total organic HAP emissions were reduced by at least 99%; and 3. you comply with the initial compliance requirements for closed-vent systems; or</td>
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<tr>
<td>4. closed-loop systems</td>
<td>each existing or new cellulose ether operation.</td>
<td>operate and maintain the closed-loop system for cellulose ether operations.</td>
<td>(1) average uncontrolled total organic HAP emissions, determined during the month-long compliance demonstration or using engineering estimates are reduced by at least 99%; 2. you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled total organic HAP emissions were reduced by at least 99%; 3. you prepare a material balance that includes the pertinent data used to determine the percent reduction of total organic HAP emissions; and 4. if you use extended cookout to comply, you measure the HAP charged to the reactor, record the grade of product produced, and then calculate reactor emissions prior to extended cookout by taking a percentage of the total HAP charged. you have a record certifying that a closed-loop system is in use for cellulose ether operations.</td>
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<tr>
<td>5. each carbon disulfide unloading and storage operation.</td>
<td>a. each existing or new viscose process affected source.</td>
<td>i. reduce uncontrolled carbon disulfide emissions by at least 83% from unloading and storage operations based on a 6-month rolling average if you use an alternative control technique not listed in this table for carbon disulfide unloading and storage operations; if using a control device to reduce emissions, route emissions through a closed-vent system to the control device; and comply with the work practice standard for closed-vent systems; (1) you have a record documenting the 83% reduction in uncontrolled carbon disulfide emissions; and (2) if venting to a control device to reduce emissions, you comply with the initial compliance requirements for closed-vent systems;</td>
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<td>ii. reduce uncontrolled carbon disulfide by at least 0.14% from viscose process vents based on a 6-month rolling average; for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and comply with the work practice standard for closed-vent systems; (1) you comply with the initial compliance requirements for viscose process vents at existing or new cellulose food casing, rayon, cellulosic sponge, or cellophane operations, as applicable; and (2) the 0.14% reduction must be in addition to the reduction already required for viscose process vents at existing or new cellulose food casing, rayon, cellulosic sponge, or cellophane operations, as applicable; and (3) you comply with the initial compliance requirements for closed-vent systems;</td>
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<td>iii. install a nitrogen unloading and storage system; or</td>
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<td>iv. install a nitrogen unloading system; reduce uncontrolled carbon disulfide by at least 0.045% from viscose process vents based on a 6-month rolling average; for each vent stream that you control using a control device, route the vent stream through a closed-vent system to the control device; and comply with the work practice standard for closed-vent systems; (1) you have a record certifying that a nitrogen unloading and storage system is in use; or (2) you comply with the initial compliance requirements for viscose process vents at existing or new cellulose food casing, rayon, cellulosic sponge, or cellophane operations, as applicable; and (3) the 0.045% reduction must be in addition to the reduction already required for viscose process vents at cellulose food casing, rayon, cellulosic sponge, or cellophane operations, as applicable; and (4) you comply with the initial compliance requirements for closed-vent systems.</td>
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</table>
For . . . at . . . for the following emission limit or work practice standard . . . you have demonstrated initial compliance if . . .

6. each toluene storage vessel.
   a. each existing or new cellophane operation.
      i. reduce uncontrolled toluene emissions by at least 95% based on a 6-month rolling average;
      ii. if using a control device to reduce emissions, route the emissions through a closed-vent system to the control device; and
      iii. comply with the work practice standard for closed-vent systems.
   (1) the average uncontrolled toluene emissions, determined during the month-long compliance demonstration or using engineering assessments, are reduced by at least 95%;
   (2) you have a record of the average operating parameter values over the month-long compliance demonstration during which the average uncontrolled toluene emissions were reduced by at least 95%;
   (3) you prepare a material balance that includes the pertinent data used to determine the percent reduction of toluene emissions; and
   (4) if venting to a control device to reduce emissions, you comply with the initial compliance requirements for closed-vent systems.

7. equipment leaks . . .
   a. each existing or new cellulose ether operation.
      i. comply with the applicable equipment leak standards of §§ 63.162 through 63.179; or
      ii. comply with the applicable equipment leak standards of §§ 63.1021 through 63.1027.
   (1) you comply with the applicable requirements described in the Notification of Compliance Status Report provisions in § 63.182(a)(2) and (c)(1) through (3), except that references to the term “process unit” mean “cellulose ether process unit” for the purposes of this subpart; or
   (2) you comply with the applicable requirements described in the Initial Compliance Status Report provisions of § 63.1039(a), except that references to the term “process unit” mean “cellulose ether process unit” for the purposes of this subpart.

8. all sources of wastewater emissions.
   a. each existing or new cellulose ether operation.
      i. comply with the applicable wastewater provisions of § 63.105 and §§ 63.132 through 63.140.
   (1) you comply with the applicability and Group 1/Group 2 determination provisions of § 63.144 and the initial compliance provisions of §§ 63.105 and 63.145.
   (2) you install emission suppression equipment and conduct an initial inspection according to the provisions of to §§ 63.133 through 63.137.

9. liquid streams in open systems.
   a. each existing or new cellulose ether operation.
      i. comply with the applicable provisions of § 63.149, except that references to “chemical manufacturing process unit” mean “cellulose ether process unit” for the purposes of this subpart.
   (1) you conduct an initial inspection of the closed-vent system and maintain records according to § 63.148;
   (2) you prepare a written plan for inspecting unsafe-to-inspect and difficult-to-inspect equipment according to § 63.148(g)(2) and (h)(2); and
   (3) you repair any leaks and maintain records according to § 63.148.

10. closed-vent system used to route emissions to a control device.
    a. each existing or new affected source.
       i. conduct annual inspections, repair leaks, and maintain records as specified in § 63.148.
    (1) you conduct an initial inspection of the closed-vent system and maintain records according to § 63.148;
    (2) you prepare a written plan for inspecting unsafe-to-inspect and difficult-to-inspect equipment according to § 63.148(g)(2) and (h)(2); and
    (3) you repair any leaks and maintain records according to § 63.148.

11. closed-vent system containing a bypass line that could divert a vent stream away from a control device, except for equipment needed for safety purposes (described in § 63.148(f)(3)).
    a. each existing or new affected source.
       i. install, calibrate, maintain, and operate a flow indicator as specified in § 63.148(f)(1); or
    (1) you install a flow indicator as specified in Table 1 to this subpart; or
    (2) you prepare a written plan for inspecting unsafe-to-inspect and difficult-to-inspect equipment according to § 63.148(g)(2) and (h)(2); and
    (3) you repair any leaks and maintain records according to § 63.148.

    you have a record documenting that you installed a flow indicator as specified in Table 1 to this subpart; or
For . . . at . . . you must . . . using . . . according to the following requirements . . .

| 1. the sum of all process vents. | a. each existing or new affected source. | i. select sampling port's location and the number of traverse points; | EPA Method 1 or 1A of 40 CFR part 60, appendix A; §63.7(d)(1)(i); EPA Method 2, 3A, 2C, 2D, 2F, or 2G in appendix A to part 60 of this chapter; | sampling sites must be located at the inlet and outlet to each control device; you may use EPA Method 2A, 2C, 2D, 2F, or 2G as an alternative to using EPA Method 2, as appropriate; you may use EPA Method 3A or 3B as an alternative to using EPA Method 3; or you may use ASME PTC 19.10–1981—Part 10; and EPA Method 4 in appendix A to part 60 of this chapter. |