



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air State Facility  
Permit ID: 5-4144-00085/00001  
Mod 0 Effective Date: 08/28/1997 Expiration Date: No expiration date.  
Mod 1 Effective Date: 11/06/2002 Expiration Date: No expiration date.  
Mod 2 Effective Date: 06/05/2006 Expiration Date: No expiration date.

Permit Issued To: MOMENTIVE SPECIALTY CHEMICALS INC  
64 FARNAN RD  
PO BOX 1409  
SOUTH GLENS FALLS, NY 12803-1409

Contact: KATHLEEN ERVINE  
HEXION SPECIALTY CHEMICALS INC  
64 FARNAN RD  
SOUTH GLENS FALLS, NY 12803  
(518) 792-8040

Facility: MOMENTIVE SPECIALTY CHEMICALS INC  
64 FARNAN RD  
SOUTH GLENS FALLS, NY 12803

Description:  
Hexion Specialty Chemicals Inc. develops, manufactures and markets liquid thermosetting adhesives and formaldehyde solutions.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: WALTER L HAYNES  
DIVISION OF ENVIRONMENTAL PERMITS  
232 GOLF COURSE RD  
WARRENSBURG, NY 12885

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

Facility Inspection by the Department  
Relationship of this Permit to Other Department Orders and  
Determinations  
Applications for Permit Renewals and Modifications  
Applications for Permit Renewals and Modifications  
Permit Modifications, Suspensions and Revocations by the Department  
Permit Modifications, Suspensions, and Revocations by the Department

**Facility Level**

Submission of Applications for Permit Modification or Renewal -REGION  
5 SUBOFFICE

**DEC SPECIAL CONDITIONS**

Emergency Response  
Stormwater



**DEC GENERAL CONDITIONS**  
**\*\*\*\* General Provisions \*\*\*\***  
**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

**Item 1.2:**

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

**Item 1.3:**

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**Condition 2: Relationship of this Permit to Other Department Orders and Determinations**

**Applicable State Requirement: ECL 3-0301 (2) (m)**

**Item 2.1:**

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**Condition 1-1: Applications for Permit Renewals and Modifications**

**Applicable State Requirement: 6 NYCRR 621.13**

**Item 1-1.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 1-1.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Item 1-1.3:**

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.



**Applicable State Requirement:** 6 NYCRR 621.13 (a)

**Expired by Mod No: 1**

**Item 3.1:**

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

**Condition 1-2: Permit Modifications, Suspensions and Revocations by the Department**

**Applicable State Requirement:** 6 NYCRR 621.14

**Item 1-2.1:**

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**Condition 4: Permit Modifications, Suspensions, and Revocations by the Department**

**Applicable State Requirement:** 6 NYCRR 621.14

**Item 4.1:**

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

\*\*\*\* Facility Level \*\*\*\*

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REGION 5



**SUBOFFICE**

**Applicable State Requirement:**

**6 NYCRR 621.5 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator

Region 5 Sub-office

Division of Environmental Permits

232 Hudson St, PO Box 220

Warrensburg, NY 12885-0220

(518) 623-1281



**DEC SPECIAL CONDITIONS**

**Condition 6: Emergency Response**

**Applicable State Requirement: 6 NYCRR Part 617**

**Item 6.1:**

NYSDEC shall be notified of the availability of all reports and plans described in Section 4.2 of the FSEIS. Such notification shall be provided to the NYSDEC Regional Permit Administrator identified on p.3 of 3.

**Condition 7: Stormwater**

**Applicable State Requirement: 6 NYCRR Part 617**

**Item 7.1:**

All stormwater originating from the facility shall be managed in accordance with Section 4.3.7 of the Final Supplemental Environmental Impact Statement (FSEIS). At no time shall contaminated stormwater be released into the environment prior to its treatment in accordance with Section 4.3.7 of the FSEIS

**New York State Department of Environmental Conservation**

Permit ID: 5-4144-00085/00001

Facility DEC ID: 5414400085



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY  
PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: MOMENTIVE SPECIALITY CHEMICALS INC  
64 FARNAN RD  
PO BOX 1409  
SOUTH GLENS FALLS, NY 12803-1409

Facility: MOMENTIVE SPECIALTY CHEMICALS INC  
64 FARNAN RD  
SOUTH GLENS FALLS, NY 12803

Authorized Activity By Standard Industrial Classification Code:  
2869 - INDUSTRIAL ORGANIC CHEMICALS, NEC

Mod 0 Permit Effective Date: 08/28/1997  
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 11/06/2002  
date.

Permit Expiration Date: No expiration

Mod 2 Permit Effective Date: 06/05/2006  
date.

Permit Expiration Date: No expiration



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Emission Unit Level

##### EU=A-00001,Proc=001

- 14 40CFR 60.482-1(d), NSPS Subpart VV: Equipment exemption.
- 15 40CFR 60.482-2(a), NSPS Subpart VV: Standards for light liquid service pumps
- 16 40CFR 60.482-2(c), NSPS Subpart VV: Leak detection.
- 17 40CFR 60.482-2(d), NSPS Subpart VV: Exemption.
- 18 40CFR 60.482-2(e), NSPS Subpart VV: Exemption.
- 19 40CFR 60.482-3(a), NSPS Subpart VV: Standards for compressors.
- 20 40CFR 60.482-3(b), NSPS Subpart VV: Standards for compressors.
- 21 40CFR 60.482-3(c), NSPS Subpart VV: Standards for compressors.
- 22 40CFR 60.482-3(d), NSPS Subpart VV: Standards for compressors.
- 23 40CFR 60.482-3(e), NSPS Subpart VV: Standards for compressors.
- 24 40CFR 60.482-3(g), NSPS Subpart VV: Standards for compressors.
- 25 40CFR 60.482-3(i), NSPS Subpart VV: Exemption.
- 26 40CFR 60.482-4(a), NSPS Subpart VV: Standards for pressure relief devices.
- 27 40CFR 60.482-4(b), NSPS Subpart VV: Leak detection.
- 28 40CFR 60.482-5(a), NSPS Subpart VV: Standards for sampling connection systems.
- 29 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 30 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 31 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 32 40CFR 60.482-5(c), NSPS Subpart VV: Exemption.
- 33 40CFR 60.482-6(a), NSPS Subpart VV: Standards for open-ended valves or lines.
- 34 40CFR 60.482-6(b), NSPS Subpart VV: Standards for open-ended valves or lines.
- 35 40CFR 60.482-6(c), NSPS Subpart VV: Standards for open-ended valves or lines.
- 36 40CFR 60.482-7(a), NSPS Subpart VV: Standards for valves in gas/vapor service.
- 37 40CFR 60.482-7(c), NSPS Subpart VV: Leak detection - monitoring.
- 38 40CFR 60.482-7(d), NSPS Subpart VV: Leak detection - repair.
- 1-1 40CFR 60.482-7(f), NSPS Subpart VV: Exemption.
- 40 40CFR 60.482-7(g), NSPS Subpart VV: Exemption.
- 41 40CFR 60.482-7(h), NSPS Subpart VV: Exemption.
- 42 40CFR 60.482-8(a), NSPS Subpart VV: Monitoring requirements.
- 43 40CFR 60.482-8(c), NSPS Subpart VV: Leak detection - repair.
- 44 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 45 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 46 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 47 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.



- 48 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 49 40CFR 60.483-1(a), NSPS Subpart VV: Alternative standards for valves.
- 50 40CFR 60.483-1(d), NSPS Subpart VV: Alternative standards for valves.
- 51 40CFR 60.483-2(b)(2), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 52 40CFR 60.483-2(b)(3), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 53 40CFR 60.483-2(b)(6), NSPS Subpart VV: Leak detection period monitoring.
- 54 40CFR 60.486, NSPS Subpart VV: Recordkeeping.
- 55 40CFR 60.487, NSPS Subpart VV: Reporting.

**EU=A-00001,Proc=002**

- 56 40CFR 60.482-1(d), NSPS Subpart VV: Equipment exemption.
- 57 40CFR 60.482-2(a), NSPS Subpart VV: Standards for light liquid service pumps
- 58 40CFR 60.482-2(c), NSPS Subpart VV: Leak detection.
- 59 40CFR 60.482-2(d), NSPS Subpart VV: Exemption.
- 60 40CFR 60.482-2(e), NSPS Subpart VV: Exemption.
- 61 40CFR 60.482-3(a), NSPS Subpart VV: Standards for compressors.
- 62 40CFR 60.482-3(b), NSPS Subpart VV: Standards for compressors.
- 63 40CFR 60.482-3(c), NSPS Subpart VV: Standards for compressors.
- 64 40CFR 60.482-3(d), NSPS Subpart VV: Standards for compressors.
- 65 40CFR 60.482-3(e), NSPS Subpart VV: Standards for compressors.
- 66 40CFR 60.482-3(g), NSPS Subpart VV: Standards for compressors.
- 67 40CFR 60.482-3(i), NSPS Subpart VV: Exemption.
- 68 40CFR 60.482-4(a), NSPS Subpart VV: Standards for pressure relief devices.
- 69 40CFR 60.482-4(b), NSPS Subpart VV: Leak detection.
- 70 40CFR 60.482-5(a), NSPS Subpart VV: Standards for sampling connection systems.
- 71 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 72 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 73 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 74 40CFR 60.482-5(c), NSPS Subpart VV: Exemption.
- 75 40CFR 60.482-6(a), NSPS Subpart VV: Standards for open-ended valves or lines.
- 76 40CFR 60.482-6(b), NSPS Subpart VV: Standards for open-ended valves or lines.
- 77 40CFR 60.482-6(c), NSPS Subpart VV: Standards for open-ended valves or lines.
- 78 40CFR 60.482-7(a), NSPS Subpart VV: Standards for valves in gas/vapor service.
- 79 40CFR 60.482-7(c), NSPS Subpart VV: Leak detection - monitoring.
- 80 40CFR 60.482-7(d), NSPS Subpart VV: Leak detection - repair.
- 1-2 40CFR 60.482-7(f), NSPS Subpart VV: Exemption.
- 82 40CFR 60.482-7(g), NSPS Subpart VV: Exemption.
- 83 40CFR 60.482-7(h), NSPS Subpart VV: Exemption.
- 84 40CFR 60.482-8(a), NSPS Subpart VV: Monitoring requirements.
- 85 40CFR 60.482-8(c), NSPS Subpart VV: Leak detection - repair.



- 86 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 87 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 88 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 89 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 90 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 91 40CFR 60.483-1(a), NSPS Subpart VV: Alternative standards for valves.
- 92 40CFR 60.483-1(d), NSPS Subpart VV: Alternative standards for valves.
- 93 40CFR 60.483-2(b)(2), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 94 40CFR 60.483-2(b)(3), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 95 40CFR 60.483-2(b)(6), NSPS Subpart VV: Leak detection period monitoring.
- 96 40CFR 60.486, NSPS Subpart VV: Recordkeeping.
- 97 40CFR 60.487, NSPS Subpart VV: Reporting.

**EU=A-00001,Proc=006**

- 140 40CFR 60.116b(a), NSPS Subpart Kb: Monitoring of operations.
- 141 40CFR 60.116b(b), NSPS Subpart Kb: Records of the dimension and capacity of storage vessels
- 142 40CFR 60.482-1(d), NSPS Subpart VV: Equipment exemption.
- 143 40CFR 60.482-2(a), NSPS Subpart VV: Standards for light liquid service pumps
- 144 40CFR 60.482-2(c), NSPS Subpart VV: Leak detection.
- 145 40CFR 60.482-2(d), NSPS Subpart VV: Exemption.
- 146 40CFR 60.482-2(e), NSPS Subpart VV: Exemption.
- 147 40CFR 60.482-3(a), NSPS Subpart VV: Standards for compressors.
- 148 40CFR 60.482-3(b), NSPS Subpart VV: Standards for compressors.
- 149 40CFR 60.482-3(c), NSPS Subpart VV: Standards for compressors.
- 150 40CFR 60.482-3(d), NSPS Subpart VV: Standards for compressors.
- 151 40CFR 60.482-3(e), NSPS Subpart VV: Standards for compressors.
- 152 40CFR 60.482-3(g), NSPS Subpart VV: Standards for compressors.
- 153 40CFR 60.482-3(i), NSPS Subpart VV: Exemption.
- 154 40CFR 60.482-4(a), NSPS Subpart VV: Standards for pressure relief devices.
- 155 40CFR 60.482-4(b), NSPS Subpart VV: Leak detection.
- 156 40CFR 60.482-5(a), NSPS Subpart VV: Standards for sampling connection systems.
- 157 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 158 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 159 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 160 40CFR 60.482-5(c), NSPS Subpart VV: Exemption.
- 161 40CFR 60.482-6(a), NSPS Subpart VV: Standards for open-ended valves or lines.
- 162 40CFR 60.482-6(b), NSPS Subpart VV: Standards for open-ended valves or lines.
- 163 40CFR 60.482-6(c), NSPS Subpart VV: Standards for open-ended valves or lines.
- 164 40CFR 60.482-7(a), NSPS Subpart VV: Standards for valves in gas/vapor service.



- 165 40CFR 60.482-7(c), NSPS Subpart VV: Leak detection - monitoring.
- 166 40CFR 60.482-7(d), NSPS Subpart VV: Leak detection - repair.
- 1-3 40CFR 60.482-7(f), NSPS Subpart VV: Exemption.
- 168 40CFR 60.482-7(g), NSPS Subpart VV: Exemption.
- 169 40CFR 60.482-7(h), NSPS Subpart VV: Exemption.
- 170 40CFR 60.482-8(a), NSPS Subpart VV: Monitoring requirements.
- 171 40CFR 60.482-8(c), NSPS Subpart VV: Leak detection - repair.
- 172 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 173 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 174 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 175 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 176 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 177 40CFR 60.483-1(a), NSPS Subpart VV: Alternative standards for valves.
- 178 40CFR 60.483-1(d), NSPS Subpart VV: Alternative standards for valves.
- 179 40CFR 60.483-2(b)(2), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 180 40CFR 60.483-2(b)(3), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 181 40CFR 60.483-2(b)(6), NSPS Subpart VV: Leak detection period monitoring.
- 182 40CFR 60.486, NSPS Subpart VV: Recordkeeping.
- 183 40CFR 60.487, NSPS Subpart VV: Reporting.

**EU=A-00001,Proc=007**

- 184 40CFR 60.116b(a), NSPS Subpart Kb: Monitoring of operations.

**EU=A-00001,EP=00001**

- 185 6 NYCRR 212.6 (a): Compliance Demonstration
- 2-1 40CFR 60.612(a), NSPS Subpart III: Compliance Demonstration
- 2-2 40CFR 60.612(a), NSPS Subpart III: Compliance Demonstration

**EU=A-00001,EP=00002**

- 187 6 NYCRR 212.6 (a): Compliance Demonstration
- 2-3 40CFR 60.612(a), NSPS Subpart III: Compliance Demonstration
- 2-4 40CFR 60.612(a), NSPS Subpart III: Compliance Demonstration

**EU=A-00002,Proc=004**

- 190 40CFR 60.116b(b), NSPS Subpart Kb: Records of the dimension and capacity of storage vessels
- 191 40CFR 60.482-1(d), NSPS Subpart VV: Equipment exemption.
- 192 40CFR 60.482-2(a), NSPS Subpart VV: Standards for light liquid service pumps
- 193 40CFR 60.482-2(c), NSPS Subpart VV: Leak detection.
- 194 40CFR 60.482-2(d), NSPS Subpart VV: Exemption.
- 195 40CFR 60.482-2(e), NSPS Subpart VV: Exemption.
- 196 40CFR 60.482-3(a), NSPS Subpart VV: Standards for compressors.
- 197 40CFR 60.482-3(b), NSPS Subpart VV: Standards for compressors.
- 198 40CFR 60.482-3(c), NSPS Subpart VV: Standards for compressors.
- 199 40CFR 60.482-3(d), NSPS Subpart VV: Standards for compressors.
- 200 40CFR 60.482-3(e), NSPS Subpart VV: Standards for compressors.
- 201 40CFR 60.482-3(g), NSPS Subpart VV: Standards for compressors.

**New York State Department of Environmental Conservation**

**Permit ID: 5-4144-00085/00001**

**Facility DEC ID: 5414400085**



- 202 40CFR 60.482-3(i), NSPS Subpart VV: Exemption.
- 203 40CFR 60.482-4(a), NSPS Subpart VV: Standards for pressure relief devices.
- 204 40CFR 60.482-4(b), NSPS Subpart VV: Leak detection.
- 205 40CFR 60.482-5(a), NSPS Subpart VV: Standards for sampling connection systems.
- 206 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 207 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 208 40CFR 60.482-5(b), NSPS Subpart VV: Standards for sampling connection systems.
- 209 40CFR 60.482-5(c), NSPS Subpart VV: Exemption.
- 210 40CFR 60.482-6(a), NSPS Subpart VV: Standards for open-ended valves or lines.
- 211 40CFR 60.482-6(b), NSPS Subpart VV: Standards for open-ended valves or lines.
- 212 40CFR 60.482-6(c), NSPS Subpart VV: Standards for open-ended valves or lines.
- 213 40CFR 60.482-7(a), NSPS Subpart VV: Standards for valves in gas/vapor service.
- 214 40CFR 60.482-7(c), NSPS Subpart VV: Leak detection - monitoring.
- 215 40CFR 60.482-7(d), NSPS Subpart VV: Leak detection - repair.
- 1-6 40CFR 60.482-7(f), NSPS Subpart VV: Exemption.
- 217 40CFR 60.482-7(g), NSPS Subpart VV: Exemption.
- 218 40CFR 60.482-7(h), NSPS Subpart VV: Exemption.
- 219 40CFR 60.482-8(a), NSPS Subpart VV: Monitoring requirements.
- 220 40CFR 60.482-8(c), NSPS Subpart VV: Leak detection - repair.
- 221 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 222 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 223 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 224 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 225 40CFR 60.482-9, NSPS Subpart VV: Allowable repair delays.
- 226 40CFR 60.483-1(a), NSPS Subpart VV: Alternative standards for valves.
- 227 40CFR 60.483-1(d), NSPS Subpart VV: Alternative standards for valves.
- 228 40CFR 60.483-2(b)(2), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 229 40CFR 60.483-2(b)(3), NSPS Subpart VV: Alternative standards for valves - ship period leak detection and repair.
- 230 40CFR 60.483-2(b)(6), NSPS Subpart VV: Leak detection period monitoring.
- 231 40CFR 60.486, NSPS Subpart VV: Recordkeeping.
- 232 40CFR 60.487, NSPS Subpart VV: Reporting.

**EU=A-00002,EP=00003**

- 233 6 NYCRR 212.6 (a): Compliance Demonstration

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 1-7 ECL 19-0301: Contaminant List
- 279 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 281 6 NYCRR Subpart 201-5: Emission Unit Definition



283 6 NYCRR 211.2: Air pollution prohibited

**Emission Unit Level**

284 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit

285 6 NYCRR Subpart 201-5: Process Definition By Emission Unit



**FEDERALLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Emission Unit Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

**This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Sealing - 6 NYCRR 200.5**

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

**Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6**

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

**Item C: Maintenance of Equipment - 6 NYCRR 200.7**

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,



required to operate such device effectively.

**Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2**

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

**Item E: Emergency Defense - 6 NYCRR 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.



(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

**Item F: Recycling and Salvage - 6 NYCRR 201-1.7**

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

**Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8**

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

**Item H: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)**

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)**

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

**Item J: Required Emission Tests - 6 NYCRR 202-1.1**



An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

**Item K: Visible Emissions Limited - 6 NYCRR 211.3**

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

**Item L: Open Fires Prohibitions - 6 NYCRR 215.2**

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item M: Permit Exclusion - ECL 19-0305**

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item N: Federally Enforceable Requirements - 40 CFR 70.6 (b)**

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state



regulations.

**FEDERAL APPLICABLE REQUIREMENTS**  
**The following conditions are federally enforceable.**

**Condition 14: Equipment exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-1(d), NSPS Subpart VV**

**Item 14.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 14.2:**

Equipment that is in a vacuum service is excluded from the requirements of section 40 CFR 60-VV.482 if it is identified as required in paragraph 40 CFR 60-VV.482(e)(5).

**Condition 15: Standards for light liquid service pumps**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(a), NSPS Subpart VV**

**Item 15.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 15.2:**

Each pump in light liquid service shall:

- 1) be monitored monthly, in accordance with the methods in Subpart 40 CFR 60-VV, and
- 2) be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

**Condition 16: Leak detection.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(c), NSPS Subpart VV**

**Item 16.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 16.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 days after detection. A first attempt at repair shall be made no later than 5 calendar days after

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each leak is detected.

**Condition 17: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(d), NSPS Subpart VV**

**Item 17.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 17.2:**

Pumps equipped with a dual mechanical seal system that includes a barrier fluid system is exempt if the conditions in subparagraphs 40 CFR 60-VV.482-2(d)(1 - 6) are satisfied.

**Condition 18: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(e), NSPS Subpart VV**

**Item 18.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 18.2:**

Pumps which have no externally actuated shaft penetrating the pump housing, have no detectable emissions greater than 500 ppm above the background readings, and are tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, are exempt from the requirements of subdivision 40 CFR 60-VV.482-2.

**Condition 19: Standards for compressors.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(a), NSPS Subpart VV**

**Item 19.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 19.2:**

Each compressor shall be equipped with a seal system that includes a barrier fluid system and which prevents leakage of VOCs to the atmosphere.

**Condition 20: Standards for compressors.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(b), NSPS Subpart VV**

**Item 20.1:**

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Process: 001

**Item 20.2:**

Each compressor seal system shall be equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

**Condition 21: Standards for compressors.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(c), NSPS Subpart VV**

**Item 21.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 21.2:**

The barrier fluid system shall be in heavy fluid service or shall not be in VOC service.

**Condition 22: Standards for compressors.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(d), NSPS Subpart VV**

**Item 22.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 22.2:**

Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system and/or the barrier fluid system.

**Condition 23: Standards for compressors.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(e), NSPS Subpart VV**

**Item 23.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 23.2:**

Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system and/or the barrier fluid system.

**Condition 24: Standards for compressors.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(g), NSPS Subpart VV**

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**Item 24.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 24.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 25: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(i), NSPS Subpart VV**

**Item 25.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 25.2:**

Any compressor that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, and is tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, is exempt from the requirements of subdivision 40 CFR 60-VV.482-3.

**Condition 26: Standards for pressure relief devices.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(a), NSPS Subpart VV**

**Item 26.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 26.2:**

Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background.

**Condition 27: Leak detection.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(b), NSPS Subpart VV**

**Item 27.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 27.2:**

After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as indicated by instrument and monitor readings or 500 ppm or less



above background no later than 5 calendar days after the pressure release.

**Condition 28: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(a), NSPS Subpart VV**

**Item 28.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 28.2:**

Each sampling connection system shall be equipped with a closed purge system or a closed vent system.

**Condition 29: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 29.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 29.2:**

Each closed purge system or closed vent system shall collect and recycle the purged process fluid with zero VOC emissions to the atmosphere.

**Condition 30: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 30.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 30.2:**

Each closed purge system or closed vent system shall be designed and operated to capture and transport all purged process fluid to a control device.

**Condition 31: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 31.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

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**Item 31.2:**

Each closed purge system or closed vent system shall return the purged process fluid directly to the process line with zero VOC emissions to the atmosphere.

**Condition 32: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(c), NSPS Subpart VV**

**Item 32.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 32.2:**

In-situ sampling systems are exempt from the requirements of subdivision 40 CFR 60-VV.482-5.

**Condition 33: Standards for open-ended valves or lines.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(a), NSPS Subpart VV**

**Item 33.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 33.2:**

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve.

**Condition 34: Standards for open-ended valves or lines.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(b), NSPS Subpart VV**

**Item 34.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 34.2:**

Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

**Condition 35: Standards for open-ended valves or lines.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(c), NSPS Subpart VV**

**Item 35.1:**

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This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 35.2:**

When a double block-and-bleed system is being used, the bleed valve or line may remain open **only** during operations that require venting the line between the block valves.

**Condition 36: Standards for valves in gas/vapor service.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(a), NSPS Subpart VV**

**Item 36.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 36.2:**

Each valve shall be monitored monthly to detect leaks.

**Condition 37: Leak detection - monitoring.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(c), NSPS Subpart VV**

**Item 37.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 37.2:**

Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, until a leak is detected. When a leak is detected the valve shall be monitored monthly until a leak is not detected for 2 consecutive months.

**Condition 38: Leak detection - repair.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(d), NSPS Subpart VV**

**Item 38.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 38.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 1-1: Exemption.**  
**Effective between the dates of 11/06/2002 and Permit Expiration Date**



**Applicable Federal Requirement:40CFR 60.482-7(f), NSPS Subpart VV**

**Item 1-1.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 1-1.2:**

Any valve that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, is exempt from the requirements of paragraph 40 CFR 60- VV.482-7(a) if the valve:

- 1) has no external actuating mechanism in contact with the process fluid, and
- 2) is tested for compliance initially, annually, and at other times as requested by the Administrator.

**Condition 40: Exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(g), NSPS Subpart VV**

**Item 40.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 40.2:**

Any valve that is designated as an unsafe-to-monitor valve is exempt from the requirements of paragraph 40 CFR 60-VV.482-7(a) if:

- 1) the owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of compliance, and
- 2) the owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor periods.

**Condition 41: Exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(h), NSPS Subpart VV**

**Item 41.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 41.2:**

Any valve that is designated as a difficult-to-monitor valve is exempt from the requirements of paragraph 40 CFR 60-VV.482-7(a) if:



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process and which does not remain in VOC service.

**Condition 45: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 45.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 45.2:**

Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

**Condition 46: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 46.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 46.2:**

Delay of repair for pumps will be allowed if:

- 1) repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
- 2) repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

**Condition 47: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 47.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 47.2:**

Delay of repair for valves will be allowed if:

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1) the owner or operator demonstrates that the emissions of purged materials resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and

2) when repair procedures are effected, the purged material is collected and destroyed in a control device.

**Condition 48: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 48.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 48.2:**

Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

**Condition 49: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-1(a), NSPS Subpart VV**

**Item 49.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 49.2:**

An owner or operator may comply with an allowable percentage of valve leaking of equal to or less than 2.0 percent.

**Condition 50: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-1(d), NSPS Subpart VV**

**Item 50.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 50.2:**

Owners and operators utilizing alternative percentage standards for compliance shall not have an affected facility with a leak percentage greater than 2.0 percent.

**Condition 51: Alternative standards for valves - ship period leak detection and repair.**

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**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(2), NSPS Subpart**

**VV**

**Item 51.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 51.2:**

When 2 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip one quarterly leak detection period.

**Condition 52: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(3), NSPS Subpart**

**VV**

**Item 52.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 52.2:**

When 5 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip three quarterly leak detection periods.

**Condition 53: Leak detection period monitoring.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(6), NSPS Subpart**

**VV**

**Item 53.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 53.2:**

An owner or operator shall maintain a record of the percent of valves found leaking during each leak detection period.

**Condition 54: Recordkeeping.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.486, NSPS Subpart VV**

**Item 54.1:**

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This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 54.2:**

Any owner or operator shall comply with all applicable recordkeeping requirements located in section 40 CFR 60-VV.486.

**Condition 55: Reporting.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.487, NSPS Subpart VV**

**Item 55.1:**

This Condition applies to Emission Unit: A-00001  
Process: 001

**Item 55.2:**

Any owner or operator shall submit a semiannual report to the Administrator, commencing 6 months after the initial startup date. These reports shall include all information required in section 40 CFR 60-VV.487.

**Condition 56: Equipment exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-1(d), NSPS Subpart VV**

**Item 56.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 56.2:**

Equipment that is in a vacuum service is excluded from the requirements of section 40 CFR 60-VV.482 if it is identified as required in paragraph 40 CFR 60-VV.482(e)(5).

**Condition 57: Standards for light liquid service pumps**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(a), NSPS Subpart VV**

**Item 57.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 57.2:**

Each pump in light liquid service shall:

- 1) be monitored monthly, in accordance with the methods in Subpart 40 CFR 60-VV, and
- 2) be checked by visual inspection each calendar week for indications of liquids dripping

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from the pump seal.

**Condition 58: Leak detection.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(c), NSPS Subpart VV**

**Item 58.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 58.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 days after detection. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 59: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(d), NSPS Subpart VV**

**Item 59.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 59.2:**

Pumps equipped with a dual mechanical seal system that includes a barrier fluid system is exempt if the conditions in subparagraphs 40 CFR 60-VV.482-2(d)(1 - 6) are satisfied.

**Condition 60: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(e), NSPS Subpart VV**

**Item 60.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 60.2:**

Pumps which have no externally actuated shaft penetrating the pump housing, have no detectable emissions greater than 500 ppm above the background readings, and are tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, are exempt from the requirements of subdivision 40 CFR 60-VV.482-2.

**Condition 61: Standards for compressors.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(a), NSPS Subpart VV**

**Item 61.1:**

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This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 61.2:**

Each compressor shall be equipped with a seal system that includes a barrier fluid system and which prevents leakage of VOCs to the atmosphere.

**Condition 62: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(b), NSPS Subpart VV**

**Item 62.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 62.2:**

Each compressor seal system shall be equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

**Condition 63: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(c), NSPS Subpart VV**

**Item 63.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 63.2:**

The barrier fluid system shall be in heavy fluid service or shall not be in VOC service.

**Condition 64: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(d), NSPS Subpart VV**

**Item 64.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 64.2:**

Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system and/or the barrier fluid system.

**Condition 65: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(e), NSPS Subpart VV**

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**Item 65.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 65.2:**

Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system and/or the barrier fluid system.

**Condition 66: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(g), NSPS Subpart VV**

**Item 66.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 66.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 67: Exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(i), NSPS Subpart VV**

**Item 67.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 67.2:**

Any compressor that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, and is tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, is exempt from the requirements of subdivision 40 CFR 60-VV.482-3.

**Condition 68: Standards for pressure relief devices.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(a), NSPS Subpart VV**

**Item 68.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 68.2:**

Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of 500 ppm or

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less above background.

**Condition 69: Leak detection.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(b), NSPS Subpart VV**

**Item 69.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 69.2:**

After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as indicated by instrument and monitor readings or 500 ppm or less above background no later than 5 calendar days after the pressure release.

**Condition 70: Standards for sampling connection systems.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(a), NSPS Subpart VV**

**Item 70.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 70.2:**

Each sampling connection system shall be equipped with a closed purge system or a closed vent system.

**Condition 71: Standards for sampling connection systems.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 71.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 71.2:**

Each closed purge system or closed vent system shall return the purged process fluid directly to the process line with zero VOC emissions to the atmosphere.

**Condition 72: Standards for sampling connection systems.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 72.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

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**Item 72.2:**

Each closed purge system or closed vent system shall collect and recycle the purged process fluid with zero VOC emissions to the atmosphere.

**Condition 73: Standards for sampling connection systems.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 73.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 73.2:**

Each closed purge system or closed vent system shall be designed and operated to capture and transport all purged process fluid to a control device.

**Condition 74: Exemption.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(c), NSPS Subpart VV**

**Item 74.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 74.2:**

In-situ sampling systems are exempt from the requirements of subdivision 40 CFR 60-VV.482-5.

**Condition 75: Standards for open-ended valves or lines.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(a), NSPS Subpart VV**

**Item 75.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 75.2:**

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve.

**Condition 76: Standards for open-ended valves or lines.  
Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(b), NSPS Subpart VV**

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**Item 76.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 76.2:**

Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

**Condition 77: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(c), NSPS Subpart VV**

**Item 77.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 77.2:**

When a double block-and-bleed system is being used, the bleed valve or line may remain open **only** during operations that require venting the line between the block valves.

**Condition 78: Standards for valves in gas/vapor service.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(a), NSPS Subpart VV**

**Item 78.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 78.2:**

Each valve shall be monitored monthly to detect leaks.

**Condition 79: Leak detection - monitoring.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(c), NSPS Subpart VV**

**Item 79.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 79.2:**

Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, until a leak is detected. When a leak is detected the valve shall be monitored monthly until a leak is not detected for 2 consecutive months.

**Condition 80: Leak detection - repair.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**



**Applicable Federal Requirement:40CFR 60.482-7(d), NSPS Subpart VV**

**Item 80.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 80.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 1-2: Exemption.**

**Effective between the dates of 11/06/2002 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(f), NSPS Subpart VV**

**Item 1-2.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 1-2.2:**

Any valve that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, is exempt from the requirements of paragraph 40 CFR 60- VV.482-7(a) if the valve:

- 1) has no external actuating mechanism in contact with the process fluid, and
- 2) is tested for compliance initially, annually, and at other times as requested by the Administrator.

**Condition 82: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(g), NSPS Subpart VV**

**Item 82.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 82.2:**

Any valve that is designated as an unsafe-to-monitor valve is exempt from the requirements of paragraph 40 CFR 60-VV.482-7(a) if:

- 1) the owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of compliance, and
- 2) the owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor periods.

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**Condition 83: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(h), NSPS Subpart VV**

**Item 83.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 83.2:**

Any valve that is designated as a difficult-to-monitor valve is exempt from the requirements of paragraph 40 CFR 60-VV.482-7(a) if:

- 1) the owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface,
- 2) the process unit within which the valve is located either becomes an affected facility or the owner or operator designates less than 3.0 percent of the valves in the facility as difficult-to-monitor, and
- 3) the owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

**Condition 84: Monitoring requirements.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-8(a), NSPS Subpart VV**

**Item 84.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 84.2:**

Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

**Condition 85: Leak detection - repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-8(c), NSPS Subpart VV**

**Item 85.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 85.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15

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calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 86: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 86.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 86.2:**

Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.

**Condition 87: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 87.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 87.2:**

Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

**Condition 88: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 88.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 88.2:**

Delay of repair for valves will be allowed if:

1) the owner or operator demonstrates that the emissions of purged materials resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and

2) when repair procedures are effected, the purged material is collected and destroyed in a control device.

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**Condition 89: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 89.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 89.2:**

Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

**Condition 90: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 90.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 90.2:**

Delay of repair for pumps will be allowed if:

- 1) repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
- 2) repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

**Condition 91: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-1(a), NSPS Subpart VV**

**Item 91.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 91.2:**

An owner or operator may comply with an allowable percentage of valve leaking of equal to or less than 2.0 percent.

**Condition 92: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**



**Applicable Federal Requirement:40CFR 60.483-1(d), NSPS Subpart VV**

**Item 92.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 92.2:**

Owners and operators utilizing alternative percentage standards for compliance shall not have an affected facility with a leak percentage greater than 2.0 percent.

**Condition 93: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(2), NSPS Subpart**

**VV**

**Item 93.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 93.2:**

When 2 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip one quarterly leak detection period.

**Condition 94: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(3), NSPS Subpart**

**VV**

**Item 94.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 94.2:**

When 5 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip three quarterly leak detection periods.

**Condition 95: Leak detection period monitoring.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(6), NSPS Subpart**

**VV**

**Item 95.1:**

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This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 95.2:**

An owner or operator shall maintain a record of the percent of valves found leaking during each leak detection period.

**Condition 96: Recordkeeping.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.486, NSPS Subpart VV**

**Item 96.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 96.2:**

Any owner or operator shall comply with all applicable recordkeeping requirements located in section 40 CFR 60-VV.486.

**Condition 97: Reporting.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.487, NSPS Subpart VV**

**Item 97.1:**

This Condition applies to Emission Unit: A-00001  
Process: 002

**Item 97.2:**

Any owner or operator shall submit a semiannual report to the Administrator, commencing 6 months after the initial startup date. These reports shall include all information required in section 40 CFR 60-VV.487.

**Condition 140: Monitoring of operations.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.116b(a), NSPS Subpart Kb**

**Item 140.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 140.2:**

The owner or operator shall maintain records of materials stored, time stored, and the maximum vapor pressure during the storage period; for a minimum of 2 years.

**Condition 141: Records of the dimension and capacity of storage vessels**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**



**Applicable Federal Requirement:40CFR 60.116b(b), NSPS Subpart Kb**

**Item 141.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 141.2:**

The owner or operator of each storage vessel, as specified in 40CFR60.110b(a), shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the storage vessel.

Each storage vessel with a design capacity less than 75 cubic meters is subject to no provision of 40CFR60 Subpart Kb other than those required by the above paragraph.

**Condition 142: Equipment exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-1(d), NSPS Subpart VV**

**Item 142.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 142.2:**

Equipment that is in a vacuum service is excluded from the requirements of section 40 CFR 60-VV.482 if it is identified as required in paragraph 40 CFR 60-VV.482(e)(5).

**Condition 143: Standards for light liquid service pumps**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(a), NSPS Subpart VV**

**Item 143.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 143.2:**

Each pump in light liquid service shall:

- 1) be monitored monthly, in accordance with the methods in Subpart 40 CFR 60-VV, and
- 2) be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

**Condition 144: Leak detection.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(c), NSPS Subpart VV**

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**Item 144.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 144.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 days after detection. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 145: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(d), NSPS Subpart VV**

**Item 145.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 145.2:**

Pumps equipped with a dual mechanical seal system that includes a barrier fluid system is exempt if the conditions in subparagraphs 40 CFR 60-VV.482-2(d)(1 - 6) are satisfied.

**Condition 146: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(e), NSPS Subpart VV**

**Item 146.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 146.2:**

Pumps which have no externally actuated shaft penetrating the pump housing, have no detectable emissions greater than 500 ppm above the background readings, and are tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, are exempt from the requirements of subdivision 40 CFR 60-VV.482-2.

**Condition 147: Standards for compressors.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(a), NSPS Subpart VV**

**Item 147.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 147.2:**

Each compressor shall be equipped with a seal system that includes a barrier fluid system and which prevents leakage of VOCs to the atmosphere.

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**Condition 148: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(b), NSPS Subpart VV**

**Item 148.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 148.2:**

Each compressor seal system shall be equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

**Condition 149: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(c), NSPS Subpart VV**

**Item 149.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 149.2:**

The barrier fluid system shall be in heavy fluid service or shall not be in VOC service.

**Condition 150: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(d), NSPS Subpart VV**

**Item 150.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 150.2:**

Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system and/or the barrier fluid system.

**Condition 151: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(e), NSPS Subpart VV**

**Item 151.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 151.2:**

Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner

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or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system and/or the barrier fluid system.

**Condition 152: Standards for compressors.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(g), NSPS Subpart VV**

**Item 152.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 152.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 153: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(i), NSPS Subpart VV**

**Item 153.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 153.2:**

Any compressor that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, and is tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, is exempt from the requirements of subdivision 40 CFR 60-VV.482-3.

**Condition 154: Standards for pressure relief devices.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(a), NSPS Subpart VV**

**Item 154.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 154.2:**

Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background.

**Condition 155: Leak detection.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(b), NSPS Subpart VV**

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**Item 155.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 155.2:**

After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as indicated by instrument and monitor readings or 500 ppm or less above background no later than 5 calendar days after the pressure release.

**Condition 156: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(a), NSPS Subpart VV**

**Item 156.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 156.2:**

Each sampling connection system shall be equipped with a closed purge system or a closed vent system.

**Condition 157: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 157.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 157.2:**

Each closed purge system or closed vent system shall collect and recycle the purged process fluid with zero VOC emissions to the atmosphere.

**Condition 158: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 158.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 158.2:**

Each closed purge system or closed vent system shall be designed and operated to capture and transport all purged process fluid to a control device.

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**Condition 159: Standards for sampling connection systems.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 159.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 159.2:**

Each closed purge system or closed vent system shall return the purged process fluid directly to the process line with zero VOC emissions to the atmosphere.

**Condition 160: Exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(c), NSPS Subpart VV**

**Item 160.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 160.2:**

In-situ sampling systems are exempt from the requirements of subdivision 40 CFR 60-VV.482-5.

**Condition 161: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(a), NSPS Subpart VV**

**Item 161.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 161.2:**

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve.

**Condition 162: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(b), NSPS Subpart VV**

**Item 162.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 162.2:**

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Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

**Condition 163: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(c), NSPS Subpart VV**

**Item 163.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 163.2:**

When a double block-and-bleed system is being used, the bleed valve or line may remain open **only** during operations that require venting the line between the block valves.

**Condition 164: Standards for valves in gas/vapor service.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(a), NSPS Subpart VV**

**Item 164.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 164.2:**

Each valve shall be monitored monthly to detect leaks.

**Condition 165: Leak detection - monitoring.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(c), NSPS Subpart VV**

**Item 165.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 165.2:**

Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, until a leak is detected. When a leak is detected the valve shall be monitored monthly until a leak is not detected for 2 consecutive months.

**Condition 166: Leak detection - repair.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(d), NSPS Subpart VV**

**Item 166.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006



**Item 166.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 1-3: Exemption.**

**Effective between the dates of 11/06/2002 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(f), NSPS Subpart VV**

**Item 1-3.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 1-3.2:**

Any valve that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, is exempt from the requirements of paragraph 40 CFR 60- VV.482-7(a) if the valve:

- 1) has no external actuating mechanism in contact with the process fluid, and
- 2) is tested for compliance initially, annually, and at other times as requested by the Administrator.

**Condition 168: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(g), NSPS Subpart VV**

**Item 168.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 168.2:**

Any valve that is designated as an unsafe-to-monitor valve is exempt from the requirements of paragraph 40 CFR 60-VV.482-7(a) if:

- 1) the owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of compliance, and
- 2) the owner or operator of the valve adheres to a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor periods.

**Condition 169: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(h), NSPS Subpart VV**





**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 172.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 172.2:**

Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.

**Condition 173: Allowable repair delays.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 173.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 173.2:**

Delay of repair for valves will be allowed if:

- 1) the owner or operator demonstrates that the emissions of purged materials resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and
- 2) when repair procedures are effected, the purged material is collected and destroyed in a control device.

**Condition 174: Allowable repair delays.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 174.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 174.2:**

Delay of repair for pumps will be allowed if:

- 1) repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
- 2) repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

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**Condition 175: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 175.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 175.2:**

Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.

**Condition 176: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 176.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 176.2:**

Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

**Condition 177: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-1(a), NSPS Subpart VV**

**Item 177.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 177.2:**

An owner or operator may comply with an allowable percentage of valve leaking of equal to or less than 2.0 percent.

**Condition 178: Alternative standards for valves.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-1(d), NSPS Subpart VV**

**Item 178.1:**

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This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 178.2:**

Owners and operators utilizing alternative percentage standards for compliance shall not have an affected facility with a leak percentage greater than 2.0 percent.

**Condition 179: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(2), NSPS Subpart**

VV

**Item 179.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 179.2:**

When 2 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip one quarterly leak detection period.

**Condition 180: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(3), NSPS Subpart**

VV

**Item 180.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 180.2:**

When 5 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip three quarterly leak detection periods.

**Condition 181: Leak detection period monitoring.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(6), NSPS Subpart**

VV

**Item 181.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 181.2:**

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An owner or operator shall maintain a record of the percent of valves found leaking during each leak detection period.

**Condition 182: Recordkeeping.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.486, NSPS Subpart VV**

**Item 182.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 182.2:**

Any owner or operator shall comply with all applicable recordkeeping requirements located in section 40 CFR 60-VV.486.

**Condition 183: Reporting.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.487, NSPS Subpart VV**

**Item 183.1:**

This Condition applies to Emission Unit: A-00001  
Process: 006

**Item 183.2:**

Any owner or operator shall submit a semiannual report to the Administrator, commencing 6 months after the initial startup date. These reports shall include all information required in section 40 CFR 60-VV.487.

**Condition 184: Monitoring of operations.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.116b(a), NSPS Subpart Kb**

**Item 184.1:**

This Condition applies to Emission Unit: A-00001  
Process: 007

**Item 184.2:**

The owner or operator shall maintain records of materials stored, time stored, and the maximum vapor pressure during the storage period; for a minimum of 2 years.

**Condition 185: Compliance Demonstration**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 185.1:**

The Compliance Demonstration activity will be performed for:

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Emission Unit: A-00001

Emission Point: 00001

**Item 185.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person will cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-1: Compliance Demonstration**

**Effective between the dates of 06/05/2006 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.612(a), NSPS Subpart III**

**Replaces Condition(s) 1-4**

**Item 2-1.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-1.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility shall: reduce emissions of TOC (minus methane and ethane determined by the most recent performance test) by 98 weight-percent, or to a TOC concentration of 20 ppmv or less (after subtracting 11.2 ppm methane determined during the performance test).

Testing is to be done by Sun Analyzer Model 1400 or

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equivalent method/device (Infrared Analyzer). Testing frequency is to be once every two (2) weeks with the possibility, upon approval by the Administrator, of extending this to once a month.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

Subsequent reports are due every 12 calendar month(s).

**Condition 2-2: Compliance Demonstration**  
**Effective between the dates of 06/05/2006 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.612(a), NSPS Subpart III**

**Item 2-2.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-2.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

A catalytic incinerator minimum temperature of 480 deg C (after the catalyst bed) was established from testing.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 480 degrees Centigrade (or Celsius)

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

Subsequent reports are due every 12 calendar month(s).

**Condition 187: Compliance Demonstration**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 187.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Emission Point: 00002

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**Item 187.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person will cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 2-3: Compliance Demonstration**

**Effective between the dates of 06/05/2006 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.612(a), NSPS Subpart III**

**Item 2-3.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Emission Point: 00002

Regulated Contaminant(s):

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**Item 2-3.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

A catalytic incinerator minimum temperature of 480 deg C  
(after the catalyst bed) was established from testing.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 480 degrees Centigrade (or Celsius)

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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Subsequent reports are due every 12 calendar month(s).

**Condition 2-4: Compliance Demonstration**  
Effective between the dates of 06/05/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.612(a), NSPS Subpart III

Replaces Condition(s) 1-5

**Item 2-4.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00001

Emission Point: 00002

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 2-4.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility shall: reduce emissions of TOC (minus methane and ethane determined by the most recent performance test) by 98 weight-percent, or to a TOC concentration of 20 ppmv or less (after subtracting 11.2 ppm methane determined during the performance test).

Testing is to be done by Sun Analyzer Model 1400 or equivalent method/device (Infrared Analyzer). Testing frequency is to be once every two (2) weeks with the possibility, upon approval by the Administrator, of extending this to once a month.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

Subsequent reports are due every 12 calendar month(s).

**Condition 190: Records of the dimension and capacity of storage vessels**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.116b(b), NSPS Subpart Kb

**Item 190.1:**

This Condition applies to Emission Unit: A-00002

Process: 004

**Item 190.2:**

The owner or operator of each storage vessel, as specified in 40CFR60.110b(a), shall keep

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readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the storage vessel.

Each storage vessel with a design capacity less than 75 cubic meters is subject to no provision of 40CFR60 Subpart Kb other than those required by the above paragraph.

**Condition 191: Equipment exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-1(d), NSPS Subpart VV**

**Item 191.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 191.2:**

Equipment that is in a vacuum service is excluded from the requirements of section 40 CFR 60-VV.482 if it is identified as required in paragraph 40 CFR 60-VV.482(e)(5).

**Condition 192: Standards for light liquid service pumps**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(a), NSPS Subpart VV**

**Item 192.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 192.2:**

Each pump in light liquid service shall:

- 1) be monitored monthly, in accordance with the methods in Subpart 40 CFR 60-VV, and
- 2) be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

**Condition 193: Leak detection.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-2(c), NSPS Subpart VV**

**Item 193.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 193.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 days after detection. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

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**Condition 194: Exemption.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-2(d), NSPS Subpart VV**

**Item 194.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 194.2:**

Pumps equipped with a dual mechanical seal system that includes a barrier fluid system is exempt if the conditions in subparagraphs 40 CFR 60-VV.482-2(d)(1 - 6) are satisfied.

**Condition 195: Exemption.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-2(e), NSPS Subpart VV**

**Item 195.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 195.2:**

Pumps which have no externally actuated shaft penetrating the pump housing, have no detectable emissions greater than 500 ppm above the background readings, and are tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, are exempt from the requirements of subdivision 40 CFR 60-VV.482-2.

**Condition 196: Standards for compressors.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-3(a), NSPS Subpart VV**

**Item 196.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 196.2:**

Each compressor shall be equipped with a seal system that includes a barrier fluid system and which prevents leakage of VOCs to the atmosphere.

**Condition 197: Standards for compressors.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-3(b), NSPS Subpart VV**

**Item 197.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004



**Item 197.2:**

Each compressor seal system shall be equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

**Condition 198: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(c), NSPS Subpart VV**

**Item 198.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 198.2:**

The barrier fluid system shall be in heavy fluid service or shall not be in VOC service.

**Condition 199: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(d), NSPS Subpart VV**

**Item 199.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 199.2:**

Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system and/or the barrier fluid system.

**Condition 200: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(e), NSPS Subpart VV**

**Item 200.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 200.2:**

Each sensor shall be checked daily or shall be equipped with an audible alarm. The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system and/or the barrier fluid system.

**Condition 201: Standards for compressors.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(g), NSPS Subpart VV**

**Item 201.1:**

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This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 201.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 202: Exemption.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-3(i), NSPS Subpart VV**

**Item 202.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 202.2:**

Any compressor that is designated for no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background, and is tested for compliance initially upon designation, annually, and at other times as requested by the Administrator, is exempt from the requirements of subdivision 40 CFR 60-VV.482-3.

**Condition 203: Standards for pressure relief devices.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(a), NSPS Subpart VV**

**Item 203.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 203.2:**

Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of 500 ppm or less above background.

**Condition 204: Leak detection.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-4(b), NSPS Subpart VV**

**Item 204.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 204.2:**

After each pressure release, the pressure relief device shall be returned to a condition of no detectable emissions as indicated by instrument and monitor readings or 500 ppm or less above background no later than 5 calendar days after the pressure release.

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**Condition 205: Standards for sampling connection systems.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-5(a), NSPS Subpart VV**

**Item 205.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 205.2:**

Each sampling connection system shall be equipped with a closed purge system or a closed vent system.

**Condition 206: Standards for sampling connection systems.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 206.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 206.2:**

Each closed purge system or closed vent system shall be designed and operated to capture and transport all purged process fluid to a control device.

**Condition 207: Standards for sampling connection systems.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 207.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 207.2:**

Each closed purge system or closed vent system shall collect and recycle the purged process fluid with zero VOC emissions to the atmosphere.

**Condition 208: Standards for sampling connection systems.**  
Effective between the dates of 08/28/1997 and Permit Expiration Date

**Applicable Federal Requirement:40CFR 60.482-5(b), NSPS Subpart VV**

**Item 208.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 208.2:**

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Each closed purge system or closed vent system shall return the purged process fluid directly to the process line with zero VOC emissions to the atmosphere.

**Condition 209: Exemption.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-5(c), NSPS Subpart VV**

**Item 209.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 209.2:**

In-situ sampling systems are exempt from the requirements of subdivision 40 CFR 60-VV.482-5.

**Condition 210: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(a), NSPS Subpart VV**

**Item 210.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 210.2:**

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve.

**Condition 211: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(b), NSPS Subpart VV**

**Item 211.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 211.2:**

Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

**Condition 212: Standards for open-ended valves or lines.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-6(c), NSPS Subpart VV**

**Item 212.1:**

This Condition applies to Emission Unit: A-00002

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Process: 004

**Item 212.2:**

When a double block-and-bleed system is being used, the bleed valve or line may remain open **only** during operations that require venting the line between the block valves.

**Condition 213: Standards for valves in gas/vapor service.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(a), NSPS Subpart VV**

**Item 213.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 213.2:**

Each valve shall be monitored monthly to detect leaks.

**Condition 214: Leak detection - monitoring.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(c), NSPS Subpart VV**

**Item 214.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 214.2:**

Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, until a leak is detected. When a leak is detected the valve shall be monitored monthly until a leak is not detected for 2 consecutive months.

**Condition 215: Leak detection - repair.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(d), NSPS Subpart VV**

**Item 215.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 215.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 1-6: Exemption.**  
**Effective between the dates of 11/06/2002 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-7(f), NSPS Subpart VV**



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without elevating the monitoring personnel more than 2 meters above a support surface,

2) the process unit within which the valve is located either becomes an affected facility or the owner or operator designates less than 3.0 percent of the valves in the facility as difficult-to-monitor, and

3) the owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

**Condition 219: Monitoring requirements.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-8(a), NSPS Subpart VV**

**Item 219.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 219.2:**

Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors shall be monitored within 5 days if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.

**Condition 220: Leak detection - repair.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-8(c), NSPS Subpart VV**

**Item 220.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 220.2:**

When a leak is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected. A first attempt to repair shall be made no later than 5 calendar days after each leak is detected.

**Condition 221: Allowable repair delays.**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV**

**Item 221.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 221.2:**

Delay of repair of equipment will be allowed for equipment which is isolated from the

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process and which does not remain in VOC service.

**Condition 222:** Allowable repair delays.  
Effective between the dates of 08/28/1997 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV

**Item 222.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 222.2:**

Delay of repair for valves will be allowed if:

1) the owner or operator demonstrates that the emissions of purged materials resulting from immediate repair are greater than the fugitive emissions likely to result from delay of repair, and

2) when repair procedures are effected, the purged material is collected and destroyed in a control device.

**Condition 223:** Allowable repair delays.  
Effective between the dates of 08/28/1997 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV

**Item 223.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 223.2:**

Delay of repair for pumps will be allowed if:

1) repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and

2) repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

**Condition 224:** Allowable repair delays.  
Effective between the dates of 08/28/1997 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.482-9, NSPS Subpart VV

**Item 224.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 224.2:**





**Applicable Federal Requirement:40CFR 60.483-2(b)(2), NSPS Subpart**

VV

**Item 228.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 228.2:**

When 2 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip one quarterly leak detection period.

**Condition 229: Alternative standards for valves - ship period leak detection and repair.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(3), NSPS Subpart**

VV

**Item 229.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 229.2:**

When 5 consecutive quarterly leak detection periods, for valves in gas/vapor and light liquid service, are reported as having 2.0 percent or less of the valves leaking, the owner or operator of the facility may skip three quarterly leak detection periods.

**Condition 230: Leak detection period monitoring.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.483-2(b)(6), NSPS Subpart**

VV

**Item 230.1:**

This Condition applies to Emission Unit: A-00002  
Process: 004

**Item 230.2:**

An owner or operator shall maintain a record of the percent of valves found leaking during each leak detection period.

**Condition 231: Recordkeeping.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.486, NSPS Subpart VV**

**Item 231.1:**

This Condition applies to Emission Unit: A-00002

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Process: 004

**Item 231.2:**

Any owner or operator shall comply with all applicable recordkeeping requirements located in section 40 CFR 60-VV.486.

**Condition 232: Reporting.**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:40CFR 60.487, NSPS Subpart VV**

**Item 232.1:**

This Condition applies to Emission Unit: A-00002

Process: 004

**Item 232.2:**

Any owner or operator shall submit a semiannual report to the Administrator, commencing 6 months after the initial startup date. These reports shall include all information required in section 40 CFR 60-VV.487.

**Condition 233: Compliance Demonstration**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 233.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: A-00002

Emission Point: 00003

**Item 233.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL  
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person will cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING  
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION





**STATE ONLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**  
**This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability**

**Item A: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)**

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1) , and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

**Item B: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

**STATE ONLY APPLICABLE REQUIREMENTS**  
**The following conditions are state only enforceable.**



**Condition 1-7: Contaminant List**

**Effective between the dates of 11/06/2002 and Permit Expiration Date**

**Applicable State Requirement:ECL 19-0301**

**Item 1-7.1:**

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 0NY998-00-0

Name: VOC

**Condition 279: Unavoidable noncompliance and violations**

**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 279.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports



described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 281: Emission Unit Definition**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 281.1(From Mod 2):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: A-00001

Emission Unit Description:

consists of Process 001 (Plant A), Process 002 (Plant B), and Process 006 (the storage and transfer operations associated with the formaldehyde, urea-formaldehyde concentrate, distillate, and urea water), and Process 007 (storage and transfer operations associated with the caustic rinse water tank). Air contaminants generated within Emission Unit A-00001 are emitted to the atmosphere via Emission Points 00001 and 00002. Emission Points 00001 and 00002 are each equipped with a catalytic incinerator, identified as Control Units 00001 and 00002, respectively.

Building(s): PROCESS  
UTILITY

**Item 281.2(From Mod 1):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: A-00002

Emission Unit Description:

consists of Process 004, which is the methanol storage, transfer and delivery system. The methanol storage tank system consists of five (5) thirty-five thousand (35,000) gallon storage tanks which are vapor balanced with each other. The entire system is equipped with a closed vent system for vapor recovery during methanol delivery and a conservation vent to control the emissions associated with normal tank breathing. Air contaminants generated within

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Emission Unit A-00002 are emitted to the atmosphere via Emission Point 00003. Emission point 00003 is equipped with a conservation vent, identified as Control Unit K003.

**Condition 283: Air pollution prohibited**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 283.1:**

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

**\*\*\*\* Emission Unit Level \*\*\*\***

**Condition 284: Emission Point Definition By Emission Unit**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**

**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 284.1(From Mod 2):**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: A-00001

Emission Point: 00001

Height (ft.): 65 Diameter (in.): 18  
NYTMN (km.): 4793.387 NYTME (km.): 613.359 Building: PROCESS

Emission Point: 00002

Height (ft.): 65 Diameter (in.): 18  
NYTMN (km.): 4793.367 NYTME (km.): 613.359 Building: PROCESS

**Item 284.2(From Mod 1):**

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: A-00002

Emission Point: 00003

Height (ft.): 39 Diameter (in.): 4  
NYTMN (km.): 4793.393 NYTME (km.): 613.414

**Condition 285: Process Definition By Emission Unit**  
**Effective between the dates of 08/28/1997 and Permit Expiration Date**



**Applicable State Requirement:6 NYCRR Subpart 201-5**

**Item 285.1(From Mod 2):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-00001

Process: 001

Source Classification Code: 3-01-040-20

Process Description:

Formaldehyde/Urea Formaldehyde Process (Plant A). This formaldehyde/urea-formaldehyde plant is capable of producing two products: a urea-formaldehyde concentrate and a formaldehyde-water solution. The closed loop chemical manufacturing process involves the injection of fresh air and methanol into an enclosed reactor containing an iron-molybdenum oxide catalyst. The methanol and oxygen in the air react to form formaldehyde. The resultant stream contains formaldehyde, unreacted methanol, dimethyl ether, methyl formate, water, carbon monoxide, and inert gases originally contained within the injected ambient air. This stream flows under pressure to an absorber system which can be operated in two modes. One mode uses a urea-water solution as an absorbent and reactant to produce a urea-formaldehyde concentrate (typically 85% urea-formaldehyde and 15% water). The other mode uses water as an absorbent to produce a formaldehyde solution with water (typically 58% formaldehyde). The absorber system has the capability to campaign between operational modes without shutting down.

A portion of the gases exiting the absorber system are recycled back to the beginning of the process and utilized as raw material feed to the reactor. The remaining portion of the gases exiting the absorber system are emitted to the atmosphere via a catalytic incinerator (00001) at Emission Point 00001. The catalytic incinerator is designed to operate with a minimum destruction efficiency of 98% for volatile organic compounds.

This formaldehyde/urea-formaldehyde plant is capable of producing two product types: a urea-formaldehyde concentrate and a formaldehyde-water solution. The plant is capable of producing both of these products at various concentrations of formaldehyde or urea-formaldehyde. The operation of the plant in either mode, or at any final product concentration, is substantially similar, and the type and quantity of air emissions is not dependent on the product being manufactured.

Hexion intends to manufacture at this plant, without providing notice to the NYSDEC or USEPA of any changes,



urea-formaldehyde concentrate and formaldehyde solutions of any type, concentration or quantity which will not increase the emissions of regulated air contaminants above those levels identified within the State Facility Permit, Section III, Facility Emissions Summary. Since the feed rate of methanol and the destruction efficiency of the catalytic incinerator are the primary factors for determining the quantity of air emissions from the facility, no documentation will be maintained for the purposes of this State Facility Permit in regards to the type, concentration or quantity of final product manufactured.

The attached emission calculations associated with this process are based on the facility operating at 120% of its design capacity for 8760 hours per year. No restriction on the hours of operation or on the type or amount of material produced will be applicable at this process. To the extent that they are quantifiable, fugitive emissions associated with this process have been included within the calculation of the facility's PTE.

Emission Source/Control: 00001 - Control  
Control Type: CATALYTIC AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: 00023 - Process

Emission Source/Control: 00025 - Process

Emission Source/Control: 00026 - Process

**Item 285.2(From Mod 2):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-00001

Process: 002

Source Classification Code: 3-01-040-20

Process Description:

Formaldehyde/Urea Formaldehyde Process (Plant B). This formaldehyde/urea-formaldehyde plant is capable of producing two products: a urea-formaldehyde concentrate and a formaldehyde-water solution. The closed loop chemical manufacturing process involves the injection of fresh air and methanol into an enclosed reactor containing an iron-molybdenum oxide catalyst. The methanol and oxygen in the air react to form formaldehyde. The resultant stream contains formaldehyde, unreacted methanol, dimethyl ether, methyl formate, water, carbon monoxide, and inert gases originally contained within the injected ambient air. This stream flows under pressure to an absorber system which can be operated in two modes. One mode uses a urea-water solution as an absorbent and



reactant to produce a urea-formaldehyde concentrate (typically 85% urea-formaldehyde and 15% water). The other mode uses water as an absorbent to produce a formaldehyde solution with water (typically 58% formaldehyde). The absorber system has the capability to campaign between operational modes without shutting down.

A portion of the gases exiting the absorber system are recycled back to the beginning of the process and utilized as raw material feed to the reactor. The remaining portion of the gases exiting the absorber system are emitted to the atmosphere via a catalytic incinerator (00002) at Emission Point 00002. The catalytic incinerator is designed to operate with a minimum destruction efficiency of 98% for volatile organic compounds.

This formaldehyde/urea-formaldehyde plant is capable of producing two product types: a urea-formaldehyde concentrate and a formaldehyde-water solution. The plant is capable of producing both of these products at various concentrations of formaldehyde or urea-formaldehyde. The operation of the plant in either mode, or at any final product concentration, is substantially similar, and the type of quantity of air emissions is not dependent on the product being manufactured.

Borden intends to manufacture at this plant, without providing notice to the NYSDEC or USEPA of any changes, urea-formaldehyde concentrate and formaldehyde solutions of any type, concentration or quantity which will not increase the emissions of regulated air contaminants above those levels identified within the State Facility Permit, Section III, Facility Emissions Summary. Since the feed rate of methanol and the destruction efficiency of the catalytic incinerator are the primary factors for determining the quantity of air emissions from the facility, no documentation will be maintained for the purposes of this State Facility Permit in regards to the type, concentration or quantity of final product manufactured.

The attached emission calculations associated with this process are based on the facility operating at 120% of its design capacity for 8760 hours per year. No restriction on the hours of operation or on the type or amount of material produced will be applicable at this process. To the extent that they are quantifiable, fugitive emissions associated with this process have been included within the calculation of the facility's PTE.

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Emission Source/Control: 00002 - Control  
Control Type: CATALYTIC AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: 00024 - Process

Emission Source/Control: 00027 - Process

Emission Source/Control: 00028 - Process

**Item 285.3(From Mod 2):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-00001

Process: 006

Source Classification Code: 3-01-830-01

Process Description:

Miscellaneous Volatile Organic Liquid Storage, Transfer and Delivery Systems. Formaldehyde, urea-formaldehyde concentrate and distillate urea water will all be stored at the facility within bulk storage tanks. The vents associated with these tanks are all vapor balanced back to the distillate storage tank. During the transfer of formaldehyde or urea-formaldehyde concentrate to tanker trucks, a vapor balance is maintained between the storage tanks and the tanker truck being filled at the time.

The vapors generated from the storage and transfer of these products are first scrubbed with distillate water. The vapors generated within the distillate tank are subsequently fed into the raw material stream for Processes 00001 and 00002 by mixing the distillate vent exhaust with the fresh air intakes for these processes. Contaminants within the distillate vent exhaust are subsequently consumed within the formaldehyde reactors, recovered as products within the absorbers, recycled back to the distillate tank, or exhausted to the atmosphere via one of the two catalytic incinerators at either Emission Point 00001 or 00002, depending on the current operating conditions. In the event that Processes 00001 and 00002 are not operating, the emissions from the distillate tanks are emitted directly to the atmosphere via one of the two catalytic incinerators at either Emission Point 00001 or 00002. The emissions associated with this process are within the material and energy balances associated with Processes 00001 and 00002.

Emission Source/Control: 00001 - Control  
Control Type: CATALYTIC AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: 00002 - Control



Control Type: CATALYTIC AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: 00004 - Process

Emission Source/Control: 00005 - Process

Emission Source/Control: 00006 - Process

Emission Source/Control: 00007 - Process

Emission Source/Control: 00008 - Process

Emission Source/Control: 00010 - Process

Emission Source/Control: 00011 - Process

Emission Source/Control: 00012 - Process

Emission Source/Control: 00013 - Process

Emission Source/Control: 00014 - Process

Emission Source/Control: 00016 - Process

Emission Source/Control: 00022 - Process

Emission Source/Control: 00029 - Process

Emission Source/Control: 000T4 - Process

Emission Source/Control: 000T5 - Process

Emission Source/Control: 00T10 - Process

Emission Source/Control: 00T32 - Process

Emission Source/Control: 00T37 - Process

Emission Source/Control: 00T38 - Process

Emission Source/Control: 00T39 - Process

**Item 285.4(From Mod 2):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-00001

Process: 007

Process Description:

Caustic soda rinse tank. Caustic soda is used to clean the process equipment. This operation is periodic. The vent from the caustic soda rinse tank discharges to the



tank vent system and is ultimately emitted to the atmosphere through one of the two catalytic incinerators.

Emission Source/Control: 00015 - Process  
Design Capacity: 6,000 gallons

**Item 285.5(From Mod 1):**

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-00002  
Process: 004 Source Classification Code: 3-01-830-01  
Process Description:

Methanol Storage, Transfer and Delivery System. Methanol will be stored at the facility within five (5) thirty-five thousand (35,000) gallon storage tanks which are vapor balanced with each other. The entire system is equipped with a closed vent system for vapor recovery during methanol delivery and a conservation vent to control the emissions associated with normal tank breathing. Air contaminants generated within Emission Unit A-00002 are emitted to the atmosphere via Emission Point 00003. Emission Point 00003 is equipped with a conservation vent, identified as Control Unit 00003.

Since the methanol delivery system is a closed vent system the emissions of methanol are not dependent on the throughput of methanol. Rather, the emissions of methanol are dependent upon tank features such as their size, shape, color, average liquid height, and the pressure/vacuum settings of the conservation vent. The attached emission calculations associated with this process are based on each of the five storage tanks contributing to the total emissions for 8760 hours per year. No restriction of the hours of operation or on the amount material processed will be applicable at this process. To the extent that they are quantifiable, fugitive emissions associated with this process have been included within the calculation of the facility's PTE.

Emission Source/Control: 00003 - Control  
Control Type: VAPOR LOCK BALANCE RECOVERY SYSTEM

Emission Source/Control: 00017 - Process

Emission Source/Control: 00018 - Process

Emission Source/Control: 00019 - Process

Emission Source/Control: 00020 - Process

Emission Source/Control: 00021 - Process



Emission Source/Control: 00T40 - Process

