

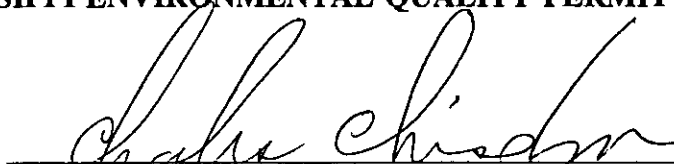
**STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
PERMIT
TO CONSTRUCT AIR EMISSIONS EQUIPMENT
THIS CERTIFIES THAT**

**Vista Chemicals
Hwy. 25
Aberdeen, Mississippi**

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

Issued this 23rd day of May, 1995

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



HEAD, OFFICE OF POLLUTION CONTROL

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. 1840-00014

**PART I
GENERAL CONDITIONS**

1. The plans, specifications, schedules, dates and other data submitted to the Permit Board are filed with and considered as a part of this permit.
2. All air pollution control facilities shall be designed and constructed such as to allow proper operation and maintenance of the facilities.
3. The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits.
4. The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except (i) where unavoidable to prevent loss of life or severe property damage or (ii) when approved by the Mississippi Environmental Quality Permit Board.
5. The construction of facilities shall be performed in such a manner as to reduce both point source and fugitive dust emissions to a minimum.
6. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their representatives upon presentation of credentials:
 - a. To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and
 - b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emissions.
7. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
 - a. Violation of any terms or conditions of this permit.
 - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts, or
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination of authorized air emissions.

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8. Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control.
9. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.
10. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances.
11. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board.
12. This permit is for air pollution control purposes only.
13. Approval to construct will expire should construction not begin within eighteen (18) months of the issuance of this permit, or should construction be suspended for eighteen (18) months.
14. Prior to startup of air emissions equipment at this source, the permittee must obtain a Permit to Operate and submit certification that construction was completed in accordance with the approved plans and specifications.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from Emission Point AA-001.

Boilers:

- (1) Springfield No. L680 - 39.9×10^6 BTU/hr
- (2) Springfield No. L694 - 39.9×10^6 BTU/hr

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Boilers No. 1 and 2

Particulate Matter	0.34 lbs/hr and 1.49 tons/year*, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	0.34 lbs/hr and 1.49 tons/year* as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Sulfur Dioxide	0.24 lbs/hr and 1.05 tons/year*, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A.
Nitrogen Oxides	6.4 lbs/hr and 28.03 tons/year* as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
Carbon Monoxide	9.9 lbs/hr and 43.36 tons/year*, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.
Volatile Organic Compounds	0.22 lbs/hr and 0.96 tons/year*, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

- * These emission limitations are the total allowables for both boilers listed as Emission Point AA-001.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the PVC Dryers, Emission Point AA-002.

PVC Dryers:

1. PVC Dryer #1 with Baghouse
2. PVC Dryer #4 with Baghouse
3. PVC Dryer #5 with Baghouse
4. PVC Dryer #6 with Baghouse
5. PVC Dryer #7 with Baghouse
6. PVC Dryer #8 with Baghouse
7. Fluidized Bed PVC Dryer with Scrubber
8. Cyclone PVC Dryer #1 with Scrubber
9. Cyclone PVC Dryer #2 with Scrubber
10. Cyclone PVC Dryer #3 with Scrubber

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	25.5 lbs/hr and 111.69 tons/year*, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	25.5 lbs/hr and 111.69 tons/year* as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Sulfur Dioxide	0.69 lbs/hr and 3.02 tons/year*, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A.
Nitrogen Oxides	13.6 lbs/hr and 59.57 tons/year*, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
Carbon Monoxide	9.0 lbs/hr and 39.42 tons/year*, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.
Volatile Organic Compounds	0.63 lbs/hr and 2.76 tons/year*, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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Opacity **40% as determined by EPA Reference Method 9,
40 CFR 60, Appendix A.**

*** These emission limitations are the total allowables for all ten (10) dryers listed as
Emission Point AA-002.**

**All test methods specified above shall be those versions, or their approved equivalents,
which are in effect May 23, 1995.**

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the PVC Storage and Handling Process, Emission Point AA-003. Thirty-nine (39) baghouses are included with this Emission Point for control of particulate matter.

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	9.7 lbs/hr & 42.49 tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A. This represents the total mass limit for the entire Emission Point (all 39 baghouses combined).
PM₁₀	9.7 lbs/hr & 42.49 tons/year, as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the Compound Production Area, Emission Point AA-004. This includes all cyclones and baghouses associated with the process.

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	0.9 lbs/hr and 3.94 tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM₁₀	0.9 lbs/hr and 3.94 tons/year as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

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PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the Plasticizer Production Area, Emission Point AA-006.

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Volatile Organic Compounds 9.13 lbs/hr and 39.99 tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the Vinyl Chloride Monomer Incinerators, Emission Point AA-007.

Such emissions shall be limited and monitored by the permittee as specified below:

EMISSION LIMITATIONS

Particulate Matter	0.01 lbs/hr and 0.04 tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	0.01 lbs/hr and 0.04 tons/year, as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Sulfur Dioxide	0.06 lbs/hr and 0.26 tons/year, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A.
Nitrogen Oxide	0.16 lbs/hr and 0.70 tons/year, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
CO	0.08 lbs/hr and 0.35 tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
VOC	0.15 lbs/hr and 0.66 tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.
Chlorine (Cl ₂)	0.084 lbs/hr and 0.368 tons/year
Hydrogen Chloride (HCl)	0.086 lbs/hr and 0.377 tons/year

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

OPERATING LIMITATIONS

The permittee shall limit the total heat input into Emission Points AB-003 and AB-004 to no more than 843,800 MMBTU in any consecutive 365-day period.

MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

The permittee shall comply with the reporting provisions of 40 CFR 60.48c(a),(g), and (i).

The permittee shall monitor daily the total heat input to Emissions Points AB-003 and AB-004 via the direct monitoring of fuel usage for these two boilers.

The permittee shall record the total amount of fuel used and total heat input for each calendar day and for each consecutive 365-day period. These records shall be maintained on site for a period of at least two (2) years and made available to Office of Pollution Control personnel upon request.

The permittee shall submit quarterly (calendar) reports which indicate any exceedences of the operating limitations during the reporting period. If no exceedences occurred, the report shall indicate the highest amount of fuel used and total heat input for a consecutive 365-day period.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the 96.1 MMBTUH natural gas-fired Nebraska Model NS-F-6S Boiler, Emission Point AB-004.

This boiler is subject to the emission limitations and other requirements of New Source Performance Standards, 40 CFR 60, Subparts A and Dc, and the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	0.0141 lbs/MMBTU, not to exceed 1.36 lbs/hr and 5.96* tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	0.0141 lbs/MMBTU, not to exceed 1.36 lbs/hr and 5.96* tons/year as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Sulfur Dioxide	0.0018 lbs/MMBTU, not to exceed 0.17 lbs/hr and 0.76* tons/year, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A.
Nitrogen Oxides	0.162 lbs/MMBTU, not to exceed 16.3 lbs/hr and 68.5* tons/year, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
Carbon Monoxide	0.103 lbs/MMBTU, not to exceed 9.9 lbs/hr and 43.5* tons/year, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.
NM Volatile Organic Compounds	0.0075 lbs/MMBTU, not to exceed 0.72 lbs/hr and 3.18* tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

- * These annual emission limitations are the total allowables for Emission Points AB-003 and AB-004.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

OPERATING LIMITATIONS

The permittee shall limit the total heat input into Emission Points AB-003 and AB-004 to no more than 843,800 MMBTU in any consecutive 365-day period.

MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

The permittee shall comply with the reporting provisions of 40 CFR 60.48c(a),(g), and (i).

The permittee shall monitor daily the total heat input to Emissions Points AB-003 and AB-004 via the direct monitoring of fuel usage for these two boilers.

The permittee shall record the total amount of fuel used and total heat input for each calendar day and for each consecutive 365-day period. These records shall be maintained on site for a period of at least two (2) years and made available to Office of Pollution Control personnel upon request.

The permittee shall submit quarterly (calendar) reports which indicate any exceedences of the operating limitations during the reporting period. If no exceedences occurred, the report shall indicate the highest amount of fuel used and total heat input for a consecutive 365-day period.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from Emission Point AB-005, the 96.1 MMBTUH natural gas fired Nebraska Model NS-F-6S Boiler.

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	0.009 lbs/MMBTU not to exceed, 0.86 lbs/hr and 3.79 tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	0.009 lbs/MMBTU not to exceed 0.86 lbs/hr and 3.79 tons/year as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Sulfur Dioxide	0.0006 lbs/MMBTU not to exceed 0.06 lbs/hr and 0.25 tons/year, as determined by EPA Reference Method 6, 40 CFR 60, Appendix A.
Nitrogen Oxides	0.085lbs/MMBTU not to exceed 8.17 lbs/hr and 35.78 tons/year, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
Carbon Monoxide	0.034 lbs/MMBTU not to exceed 3.27 lbs/hr and 14.31 tons/year, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.
Volatile Organic Compounds	0.0054 lbs/MMBTU not to exceed, 0.52 lbs/hr and 2.27 tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from the Vinyl Chloride Reaction and Storage Process, Process Code AI, including:

Emission Point No.	Description
AI-001	Railcar Unloading Stations
AI-002	PVC Reactor D-300
AI-003	PVC Reactor D-400
AI-004	PVC Reactor D-500
AI-005	PVC Reactor D-600
AI-006	PVC Reactor D-700
AI-007	PVC Reactor 741
AI-008	PVC Reactor 742
AI-009	PRC Reactor 743
AI-010	PVC Reactor 744
AI-011	PVC Reactor 745
AI-012	Evacuation Jet -Old Module
AI-013	Evacuation Jet - New Module
AI-014	Slurry Dump Systems- Old Module
AI-015	Slurry Dump Systems - New Module
AI-016	Slurry Dump Systems- 745 Reactor
AI-017	Slurry Dump Systems - D-700 Reactor
AI-018	Slurry Blend Tank 550
AI-019	Slurry Blend Tank 551
AI-020	Slurry Blend Tank 552

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EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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Emission Point No.	Description
AI-021	Slurry Blend Tank 553
AI-022	Slurry Blend Tank 646
AI-023	Slurry Blend Tank 647
AI-024	Slurry Blend Tank 648
AI-025	Slurry Blend Tank 649
AI-026	Slurry Blend Tank 650
AI-027	Slurry Blend Tank 651
AI-028	Slurry Blend Tank 652
AI-029	Slurry Blend Tank 653
AI-030	Slurry Blend Tank 654
AI-031	Slurry Blend Tank 655
AI-032	Slurry Blend Tank 407
AI-033	Slurry Blend Tank 501
AI-034	Slurry Blend Tank 502
AI-035	Slurry Blend Tank 747
AI-036	Normal Kill Solution Mix Tank
AI-037	Normal Kill Solution Charge Tank
AI-038	Suspending Agent Tank D-103
AI-039	Slurry Blend Tank (Low Mol)
AI-040	PVC Reactor 746 CSM
AI-041	PVC Reactor 747

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EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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Emission Point No.	Description
AI-042	PVC Reactor 800
AI-043	PVC Reactor 900
AI-044	NMHM Slurry Dump Tank C S M
AI-045	OMHM Slurry Dump Tank C S M
AI-046	NMLM Slurry Dump Tank E S M
AI-047	OMLM Slurry Dump Tank
AI-048	NMHM Stripper Feed Tank C S M
AI-049	NMLM Stripper Feed Tank E S M
AI-050	OMHM Stripper Feed Tank C S M
AI-051	OMLM Stripper Feed Tank
AI-052	NMLM Slurry Stripper C S M
AI-053	OMHM Slurry Stripper C S M
AI-054	NMHM Slurry Stripper C S M
AI-055	OMLM Slurry Stripper

AI 050
The air emissions equipment, Emission Points AI-001 through AI-055, shall be operated to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Vinyl Chloride

0.000198 lbs/dry solid lb of polyvinyl chloride resins, including latex resins, not to exceed 138.6 tons/yr* as determined by 40 CFR 61.67(g)(3) and (g)(5), or approved equivalent.

* This Emission Limitation is based on a maximum production of 1,400,000,000 lbs of PVC/yr. This includes, but is not limited to, residual monomer content after stripping, reactor opening losses, and any fugitive emissions.

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EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

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EMISSION MONITORING

The permittee shall comply with 40 CFR 61.68.

RECORDKEEPING & REPORTING REQUIREMENTS

The permittee shall comply with 40 CFR 61.70 and 61.71.

PERFORMANCE TESTING

The permittee shall comply with 40 CFR 61.67.

PART II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning May 23, 1995, the permittee is authorized to construct air emissions equipment for the emission of air contaminants from Emission Point AI-056, the cooling water pump drive.

The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified below.

EMISSION LIMITATIONS

Particulate Matter	0.07 lbs/hr and 0.30 tons/year, as determined by EPA Reference Methods 1-5, 40 CFR 60, Appendix A.
PM ₁₀	0.07 lbs/hr and 0.30 tons/year as determined by EPA Reference Method 201 or 201A in conjunction with Reference Method 202, 40 CFR 51, Appendix M.
Nitrogen Oxides	1.4 lbs/hr and 6.13 tons/year, as determined by EPA Reference Method 7, 40 CFR 60, Appendix A.
Carbon Monoxide	1.4 lbs/hr and 6.13 tons/year, as determined by EPA Reference Method 10, 40 CFR 60, Appendix A.
Volatile Organic Compounds	0.23 lbs/hr and 1.00 tons/year, as determined by EPA Reference Method 25, 40 CFR 60, Appendix A.
Opacity	40% as determined by EPA Reference Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect May 23, 1995.

**PART III
OTHER REQUIREMENTS**

- (1) The permittee shall comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAPS), 40 CFR Part 61, Subpart A - General Provisions and Subpart F - Vinyl Chloride.**
- (2) Emission Points AB-003, AB-004, and AB-005 are subject to and shall comply with the New Source Performance Standards, as described in 40 CFR 60, Subpart A - General Provisions, including Notification and Recordkeeping as provided in 60.7, and the specific requirements outlined in 60.40c, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.**

**PART III
OTHER REQUIREMENTS**

- (1) The permittee shall comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAPS), 40 CFR Part 61, Subpart A - General Provisions and Subpart F - Vinyl Chloride.**
- (2) Emission Points AB-003, AB-004, and AB-005 are subject to and shall comply with the New Source Performance Standards, as described in 40 CFR 60, Subpart A - General Provisions, including Notification and Recordkeeping as provided in 60.7, and the specific requirements outlined in 60.40c, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.**