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Mitchell Brothers, Inc.
Asphalt Concrete Drum Mix Plant No. 3
Facility ID No.: 0730034
Leon County

Air Operation Permit
Permit No.: 0730034-003-AO

Permitting Authority:
Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, FL 32501-5794
Telephone: 850/595-8364
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[electronic file name: 0730034o.doc]

Air Operation Permit
Permit No.: 0730034-003-AO

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Department of
Environmental Protection

Lawton Chiles
Governor

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794

Virginia B. Wetherell
Secretary

Permittee:
Mitchell Brothers, Inc.

Permit No.: 0730034-003-AO
Facility ID No.: 0730034
SIC Nos.: 29, 2951
Project: Drum-Mix Plant No. 3

This permit is for the operation of the Asphalt Concrete Drum Mix Plant No. 3 located at 1330 Capital Circle NE (SR 261), Tallahassee, Leon County; UTM Coordinates: Zone 16, 766.15 km East and 3772.2 km North; Latitude: 30° 27' 15" North and Longitude: 84° 13' 40" West.

STATEMENT OF BASIS: This air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix G-1, General Conditions
Appendix SS-1, Stack Sampling Facilities

Effective Date: September 23, 1998
Renewal Application Due Date: July 25, 2003
Expiration Date: September 23, 2003

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Ed K. Middleswart, P.E.
Air Program Administrator

EKM/as

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of an ACECO asphalt concrete drum mix plant with a capacity of 275 tons per hour and associated equipment and operations. Particulate emissions are controlled by a venturi wet scrubber manufactured by ACECO. Aggregate stored in bins is weighed and conveyed to a rotary drum and mixed with liquid asphalt pumped from an electrically heated storage tank. Recycled asphalt concrete is introduced into the drum mixer at a ratio of not more than 40 percent of the total mix produced. The mixture is heated by a dual-fuel burner in the rotary drum and thence conveyed to a heated storage silo and to trucks for delivery to customers.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities such as general facility and equipment maintenance.

Based on the permit application received, and subsequent additional information received, this facility is not a major source of criteria or hazardous air pollutants (HAPs) by following the specific conditions outlined under the conditional exemption from Title V permitting.

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	Brief Description
004	Venturi Wet Scrubber - ACECO Drum-Mix Plant No. 3

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are on file with permitting authority:
Construction Permit Application received May 7, 1987
Construction Permit AC37-134020 Issued July 28, 1987
Construction Permit AC37-153264 Issued August 2, 1988
Construction Permit Application received October 25, 1993
Construction Permit AC37-233054 Issued January 12, 1994
Letter from E. Mitchell, received February 20, 1996
Letter from M. Hagman, Koogler & Associates, received November 26, 1997
Operating Permit Application received August 31, 1998
Letter from M. Hagman, Koogler & Associates, received January 20, 1998
0730034-002-AC, Modification to Construction Permit AC37-233054, Issued March 6, 1998
Letter from M. Hagman, Koogler & Associates, received April 20, 1998
Construction Permit Modification Application received August 31, 1998
Clarification Letter from J. Koogler, Koogler & Associates, received August 31, 1998
0730034-004-AC, Modification to Construction Permit 0730034-002-AC, Issued September 17, 1998

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX G-1, GENERAL CONDITIONS, is a part of this permit.

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. VOC containers shall be covered to prevent evaporation. Chlorinated organic solvents shall not be used to clean equipment. Any storage of 55 gallons or more of chlorinated organic solvents shall be fully protected against evaporation, leakage or spills and shall be contained for proper disposal.
[Rule 62-296.320(1)(a), F.A.C., 0730034-004-AC]

5. General Pollutant Emission Limiting Standards. Unconfined Particulate Emissions. Fugitive PM emissions shall be controlled in accordance with the requirements of Rule 62-296.320(4)(c), F.A.C.. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

1. Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:
   (a) Paving and maintenance of roads, parking areas, and yards.
   (b) Application of water or environmentally safe dust-suppressant chemicals to unpaved roads, yards, open stock piles and similar activities when necessary to control emissions.
   (c) Landscaping or planting of vegetation.
   (d) Enclosure or covering of conveyor systems.
   (e) Removal of particulate matter from roads and other paved areas under control of the owner or operator to mitigate reentrainment, and from buildings, structures or work areas to reduce airborne particulate matter.
   (f) Reduction of stock pile height or installation of wind breaks to mitigate wind entrainment of particulate matter from stock piles.
2. Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rules 62-210.300(3)(c)1.e. and 62-296.320(4)(c)2., F.A.C., 0730034-004-AC]

6. This asphalt concrete plant qualifies for a Conditional Exemption from Title V Air Permitting provided that applicable conditions of Rule 62-21.300(3)(c), F.A.C. are met. (see Section III) No other emissions units may be activated which would cause the facility to be classified as a Title V source as a result of their combined potential to emit regulated pollutants.
[Rule 62-210.300(3)(c), F.A.C.]

7. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, F.A.C.]

8. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northwest District office, with a copy to the Department's Tallahassee Branch Office (2815 Remington Green Circle, Tallahassee, FL 32308-1513, 850/488-3704).

9. Sixty days prior to the expiration date of this operation permit, the Permittee shall submit two permit renewal applications using the current version of the renewal form along with the processing fee established in FAC Rule 62-4.050(4) to the Northwest District office of the Department.
[Rule 62-4.090, F.A.C.]

10. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650, F.A.C.]

11. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.
[Rule 62-210.700, F.A.C.]

12. Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit to the implementing agency:

a. a risk management plan (RMP) when, and if, such requirement becomes applicable; and
b. certification forms and/or RMPs according to the promulgated rule schedule.

[Rule 62-204.800(12), F.A.C., and 40 CFR 68]

13. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 595-8364, day or night, and for emergencies involving a significant threat to human health or the environment is (800) 320-0519. For routine business, telephone (850) 595-8364 during normal working hours.
[Rules 62-210.700 and 62-4.130, F.A.C.]

14. The permittee shall install and maintain permanent stack sampling facilities, including sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet requirements of Rule 62-297(6), F.A.C., and any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.
[Rule 62-297.310(6), F.A.C.]

Permit No.: 0730034-003-AO

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
004	Venturi Wet Scrubber - ACECO Drum-Mix Plant No. 3

This emissions unit is an ACECO venturi wet scrubber controlling emissions from dual-fuel fired asphalt drum mixer.

(IMPORTANT REGULATORY CLASSIFICATIONS - the emissions unit is regulated under NSPS - 40 CFR 60, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities.)

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The maximum allowable operating rate shall not exceed 275 Tons asphalt concrete mix per hour. This is the operating rate at which compliance with standards shall be demonstrated.
[0730034-002-AC, Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year, as long as materials troughput and fuel oil usage limitations are observed.
[Rule 62-4.160(2) and Rule 62-210.200(PTE), F.A.C.]

A.3. The production rate of asphaltic concrete shall not exceed 500,000 tons in any consecutive twelve-month period.
[Rule 62-210.300(3)(c)1.a., F.A.C.]

A.4. Methods of Operation - (Scrubber Operating Parameters). The ACECO venturi scrubber will be installed and operated according to manufacturer's specifications for proper operation and control efficiency. Scrubber throat air pressure drop shall be maintained at 8-10 inches of water. Scrubber water flow rate shall be maintained at approximately 250 gpm at a scrubber water supply pressure of 5 to 7 psig. Instrumentation to verify these parameters shall be checked periodically by operator during the batching cycle. The scrubber pond shall be maintained to ensure proper treatment of scrubber water, prevent excessive sediment build-up, and prevent scrubber equipment degradation from excessive abrasive particles in the scrubber water.
[0730034-002-AC, Rule 62-4.030, letters of January 16 and April 16, 1998, and August 27, 1998]

A.5. Methods of Operation - (Fuel Use). Fuel oil consumption shall not exceed 1.2 million gallons in any consecutive twelve-month period. No limitation on natural gas use as long as major source emissions thresholds are not breached.
[Rules 62-210.300(3)(c), and 62-210.300(3)(c)1.b., F.A.C.]

A.6. Methods of Operation - (Fuel Specifications). Fuel oil shall not exceed 1.0 percent sulfur content, by weight. The owner shall maintain records to demonstrate that each shipment of fuel oil has 1.0 percent or less sulfur and that the sulfur content was determined by ASTM methods ASTM D4057-88 and ASTM D129-91, ASTM D2622-94 or ASTM D4294- 90, adopted and incorporated by reference in Rule 62- 297.440(1).
[AC37-23303404, Rules 62-4.160(2), 62-213.440(1) and 62-210.300(3)(c)1.c, F.A.C.]

Emission Limitations and Standards

A.7. Particulate matter (PM) emissions shall not exceed 0.04 grains per dry standard cubic foot averaged over a three-hour period.
[Rules 62-210.300(3)(c)1.d., and 62-204.800(7)(b)12., F.A.C., 40 CFR 60.92(a)(1)]

A.8. Visible emissions (VE) shall not be equal to or greater than 20 percent opacity.
[Rules 62-210.300(3)(c)1.f., and 62-204.800(7)(b)12., F.A.C., 40 CFR 60.92(a)(2)]

A.9. Test Methods and Procedures

A.9.a. Emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. Such tests shall be scheduled within thirty (30) days after initial operation. The Department shall be notified at least fifteen (15) days prior to testing to allow witnessing. Results shall be submitted to the Department within forty-five (45) days after testing.
[Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

A.9.b. The owner or operator shall submit a stack test using EPA Reference Method 5 or 5A and a visible emission (VE) test using EPA Reference Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C., that demonstrate compliance with the applicable PM and VE standards, respectively, to the Department by March 15, annually during each federal fiscal year (October 1 - September 30). The VE test shall be conducted during one of the PM test runs. The Department shall be notified at least 15 days prior to testing, of the date, time and place of the test and test contact person in order to allow witnessing.
[Rules 62-210.300(3)(c)1.i., and 62-297.310(7)(a)9., F.A.C.]

A.9.c. In conducting the performance tests required in 40 CFR 60, Subpart A, § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR 60, or other methods and procedures as specified in 40 CFR 60.90, § 60.92, except as provided in 40 CFR 60, Subpart A, § 60.8(b). The owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.90, § 60.92 as follows:

(1) Method 5 or 5A sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).

(2) Method 9 and the procedures in § 60.11 shall be used to determine opacity.

[Rule 62-204.800(7)(b)12., F.A.C., 40 CFR 60.93]

A.9.d. The test reports shall comply with applicable portions of Rule 62-297.310, F.A.C., Test Reports. The Department can require special compliance tests in accordance with Rule 62-297.310(7) F.A.C. Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing.
[Rules 62-297.310(7) and 62-297.620(1), F.A.C.]

A.9.e. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department.
[Rules 62-297.310(2) and 62-4.070, F.A.C.]

Recordkeeping and Reporting Requirements

A.10. The owner or operator shall maintain records to document the monthly and the twelve-month rolling totals of tons of asphaltic concrete produced, the gallons of fuel oil consumed, and the hours of operation. Such records shall be retained for five years.
[Rule 62-210.300(3)(c)1.g., F.A.C.]

A.11. The owner or operator shall maintain the scrubber and the instrumentation per the approved maintenance and operating plan required by the construction permit to indicate the scrubber operating parameters of pressure drop, water flow and feed water pump pressure in order to provide reasonable assurance of proper scrubber operation. The operator shall record instrument readings at least once daily during batching operations. The owner or operator shall keep instrument reading logs and make them available for Department inspection for at least five years from date of log entry.
[0730034-002-AC and Rules 62-4.030 and 62-210.650, F.A.C.]

A.12. The owner or operator shall submit an Annual Operating Report for Air Pollutant Emitting Facility [DEP Form No. 62-210.900(5)] to the Department annually pursuant to Rule 62-210.370(3), F.A.C. The annual operating report shall be submitted to the appropriate Department of Environmental Protection (DEP) District or DEP-approved local air pollution control program office by March 1 of each year.
[Rules 62-210.370(3)(c), and 62-210.300(3)(c)1.h., F.A.C.]

Subsection B. NSPS Common Conditions.

E.U. ID No.	Brief Description
004	Venturi Wet Scrubber - ACECO Drum-Mix Plant No. 3

The following specific conditions apply to the NSPS emissions unit(s) listed above:

40 CFR 60, Subpart A - General Provisions Requirements

B.1. Permittee shall abide by applicable general provisions of 40 CFR 60, Subpart A, revised as of July 1, 1996, and amended February 24, 1997, 62 DVR 8314, which are adopted and incorporated by reference except 40 CFR 60.4, 40 CFR 60.8(b)(2) and (3), 40 CFR 60.11(e), 40 CFR 60.16, and 40 CFR 60.17.
[Rule 62-204.800(7)(d), F.A.C., 40 CFR 60.1]

40 CFR 60, Subpart I - Hot Mix Asphalt Facilities, Asphalt Concrete Plants

B.2. Permittee shall abide by applicable provisions of 40 CFR 60, Subpart I, revised as of July 1, 1996, or later as specifically indicated which are adopted and incorporated by reference.
[Rule 62-204.800(7)(b)12., F.A.C., 40 CFR 60.90]

Permitting Note: Rule 62-210.300(3)(c)1., F.A.C., addresses requirements of 40 CFR 60, Subpart I, so those requirements are not repeated here.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions", and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

a. Having access to and copying any records that must be kept under the conditions of this permit;
b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,
c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. A description of and cause of noncompliance; and
b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurement;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

APPENDIX SS-1, STACK SAMPLING FACILITIES

Stack Sampling Facilities Provided by the Owner of an Emissions Unit. This section describes the minimum requirements for stack sampling facilities that are necessary to sample point emissions units. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. Emissions units must provide these facilities at their expense. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

(a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

(b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

(c) Sampling Ports.

1. All sampling ports shall have a minimum inside diameter of 3 inches.
2. The ports shall be capable of being sealed when not in use.
3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.
4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

(d) Work Platforms.

1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.
2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.
3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.
4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

(e) Access to Work Platform.

1. Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.

(f) Electrical Power.

1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

(g) Sampling Equipment Support.

1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

a. The bracket shall be a standard 3 inch x 3 inch x one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

c. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

2. A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.

3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]