NUSTAR TERMINALS OPERATIONS PARTNERSHIP, L.P.
NUSTAR JACKSONVILLE TERMINAL

FACILITY ID NO.: 0310028
DUVAL COUNTY
AIR CONSTRUCTION PERMIT
DRAFT PERMIT NO.: 0310028-018-AC

PERMITTING AND COMPLIANCE AUTHORITY
ENVIRONMENTAL AND COMPLIANCE DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
117 WEST DUVAL STREET
SUITE 225
JACKSONVILLE, FL 32202
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Air Construction Permit
Draft Permit No.: 0310028-018-AC

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EU No.	EU Description	Control Equipment
023	Loading Rack Operation - Annex I	Tornado Flare Systems, Inc. Vapor Combustor
034	Loading Rack Operation - Annex II	Zeeco Inc. Model 06-1 Vapor Combustor
042	Internal Floating Roof Tanks - Subpart Kb	

Permittee:
NuStar Terminals Operations Partnership, L.P.
NuStar Jacksonville Terminal
6531 Evergreen Avenue
Jacksonville, FL 32208

DRAFT Permit No.: 0310028-018-AC
Facility ID No.: 0310028
SIC Nos.: 42
Project: Ethanol Project

This permit is for the modification of Emissions Unit 023 - Loading Rack Operation - Annex I, Emissions Unit 034 - Loading Rack Operation - Annex II, and Emissions Unit 042 - Internal Floating Roof Tanks - Subpart Kb at the Jacksonville Terminal to allow for the receipt, storage, and loading of ethanol. This facility is located at 6531 Evergreen Avenue, Jacksonville, Duval County, FL; UTM Coordinates: Zone 17, 438.26 km East and 3360.09 km North; Latitude: 30° 22' 22" North and Longitude: 81° 38' 33" West.

This permit is issued under the provisions of Chapter 403, Florida Statutes (FS) and Florida Administrative Code (FAC) Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297. 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 Environmental and Compliance Department, Environmental Quality Division (Department) in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix CAM

Title V Operation Permit Revision Application Due Date:
Expiration Date:

Environmental and Compliance Department
Environmental Quality Division

_____
Robert Steven Pace, P.E., Manager
Air Quality Branch

RSP/GHB

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Section I. Facility Information.

Subsection A. Project & Facility Description

This permit is for the modification of the loading rack operations (Emission Unit Nos. 023 and 034) and four existing internal floating roof tanks (Emission Unit No. 042) to include the receipt, loading and storage of ethanol and other lower vapor pressure fuel products. Tank No. 6622 will be modified with a liner and seals for storing ethanol. The emissions from ethanol loading will be controlled by the existing vapor combustor unit (VCU) on each loading rack. No additional loading spots will be added to the truck loading racks.

This facility is a petroleum products warehouse and storage terminal facility. The facility operations include storage tanks, tank truck loading, rail car loading and unloading, tanker ship loading and unloading, barge loading and unloading, and other handling and transfer operations of petroleum products.

The facility is a synthetic minor source of Hazardous Air Pollutants (HAP) because the operational limit assumed by the owner will limit the potential emissions to less than 10 tons per year for a single HAP and less than 25 tons per year for total HAPs pursuant to Rule 62-210.200, FAC, and Rule 2.301, JEPB.

The facility is major for purposes of Prevention of Significant Deterioration. The modifications will not result in a significant net increase of volatile organic compounds nor will recent permitted modifications in addition to this modification result in a significant net increase of volatile organic compounds, therefore, additional Prevention of Significant Deterioration analysis is not required.

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

EU No.	Brief Description	Control Equipment
023	Loading Rack Operation - Annex I	Tornado Flare Systems, Inc. Vapor Combustor
034	Loading Rack Operation - Annex II	Zeeco Inc. Model 06-1 Vapor Combustor
042	Internal Floating Roof Tanks - Subpart Kb	

Subsection C. Relevant Documents.

Title V Air Operation Permit 0310028-016-AV
Application for a Title V Air Construction Permit received August 11, 2008

Section II. Facility-wide Conditions.

Subsection A. General Conditions

1. The terms, conditions, requirements, limitations, and restrictions set forth herein 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 process 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. Neither 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 is not 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 this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement 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, as 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 and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   c. Sample or monitor 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 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.

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 prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the 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 Rules 62-4.120 and 62-730.300, FAC, 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:
    ( ) Determination of Best Available Control Technology (BACT)
    ( ) Determination of Prevention of Significant Deterioration (PSD)
    ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
    (X) Compliance with New Source Performance Standards

14. 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 this 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:

        1. The date, exact place, and time of sampling or measurements;
        2. The person responsible for performing the sampling or measurements;
        3. The date(s) analyses were performed;
        4. The person responsible for performing the analyses;
        5. The analytical techniques or methods used;
        6. The results of such analyses.

15. 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 that 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.

Subsection B. Specific Conditions

1. Permittee shall notify the Department fifteen (15) days prior to EU testing.
   [Rule 62-297.310(7)(a)(9), FAC, and Rule 2.1101, Jacksonville Environmental Protection Board (JEPB)]

2. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing.
   [Rule 62-297.310(8)(b), FAC, and Rule 2.1101, JEPB]

3. Any revision(s) to a permit (and application) shall be submitted to and approved by the Department prior to implementing.
   [Rule 62-4.080(2), FAC, and Rule 2.1301, JEPB]

4. Permittee shall submit an annual operating report to the Department for this emission unit(s) on the form(s) supplied for each calendar year by April 1 of the following year, except that the annual operating report for calendar year 2008 shall be submitted by May 1, 2009.
[Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]

5. The construction/modification shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing sixty (60) days prior to the expiration of the construction permit. A new schedule and request for an extension of the construction permit must be submitted.
[Rule 62-4.080(2), FAC, and Rule 2.1301, JEPB]

6. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for a Title V Air Operating Permit with compliance records and test results, to the Department, at least two hundred twenty five (225) days prior to the expiration date of the construction permit but no later than 180 days after initial tank (No. 6622) start-up, whichever occurs first. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid operating permit to operate.
[Rule 62-210.300(2), FAC, Rule 62-213.420(1)(a)2., FAC, Rule 2.301, JEPB, and Rule 2.501, JEPB]

7. 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), FAC, and Rule 2.1001, JEPB]

8. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter emissions from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions include the following:
    a. Paving and maintenance of roads, parking areas and yards.
    b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
    c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
    d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
    e. Landscaping or planting of vegetation.
    f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
    g. Confining abrasive blasting where possible.
    h. Enclosure or covering of conveyor systems.

    [Rule 62-296.320(4)(c)2., FAC, and Rule 2.1001, JEPB]

9. The permittee shall submit all compliance-related notifications and reports required of this permit to the Department at:

Environmental and Compliance Department
Environmental Quality Division
117 West Duval Street, Suite 225
Jacksonville, FL 32202
Telephone: 904/630-4900

Fax: 904/630-3638

10. The facility shall be subject to City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

11. The facility shall be subject to JEPB Rule 2, Part Nos. I through VII, and Part Nos. IX through XIII.

12. Excess emissions resulting from startup, shutdown, or malfunction of any emission 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. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC and Rule 2.1301, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.
[Rule 62-210.700, FAC, and Rule 2.201, JEPB]

Section III. Emissions Unit(s) and Conditions.

Emissions Unit No. 023 - Loading Rack Operation Annex I

Emissions Unit Description – Tank Truck Loading System loading gasoline, aviation gasoline, ethanol and/or gasoline/ethanol blends or lower vapor pressure VOL products.

Control Device - Tornado Flare Systems, Inc. Vapor Combustor

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200(243), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum throughput rate shall not exceed 360,000 gallons per hour and 300.0 x 10^6 gallons per year.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

3. Total organic compounds (TOC) shall not exceed 43.80 tons per year @ 35 milligrams per liter.
[Rule 40 CFR 60.502(b), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

4. 40 CFR 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals, and 40 CFR 60, Subpart A, General Provisions, Reporting Requirements, Notification Requirements, and Standards of Performance shall apply to the source described herein.
[Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method (RM) 25A/25B (as described in 40 CFR 60, Appendix A) for total organic compounds.

[Rule 40 CFR 60.503, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

6. Specific testing requirements for vapor collection systems and tank trucks shall be as follows:

Specific Testing Required	Applicable Rule	Test Method
A. Vapor collection and liquid equipment gauge pressure during product loading	40 CFR 60.502(h)	40 CFR 60.503(d)
B. Potential sources of vapor leakage in vapor collection system	40 CFR 60.503(b)	EPA RM 21
C. Gasoline tank truck tightness*	40 CFR 60 502(e) and 40 CFR 60.505	EPA RM 27
*To be performed by tank truck owner/operator		
D. Vapor collection system, vapor processing system, and loading rack(s) shall be inspected for TOC liquid or vapor leaks	40 CFR 60.502(j)	Sight, sound, or smell detection method

Note: Item A and B above shall be performed during the compliance testing required in Specific Condition No. 5., item D shall be performed monthly.

7. Testing for TOC shall be conducted five (5) years from the date of May 1, 2008. Compliance shall be demonstrated annually in accordance with General Control Device Requirements, 40 CFR 60.18(b) from the date of May 1, 2008.
[Rule 40 CFR 60.503, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Monitoring of Operations

8. The terminal owner/operator must ensure that each truck's vapor collection system is connected to the terminal vapor collection system during loading of the tank trucks. Gasoline, aviation gasoline, and ethanol shall not be loaded into tank trucks unless the vapors are vented to the Vapor Combustor Unit (VCU). Distillate products may be loaded into tank trucks, which did not on the previous load carry gasoline, aviation gasoline, and/or ethanol, without being vented to the VCU.
[40 CFR 60.502(g), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Compliance Assurance Monitoring

9. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64, Rule 62-204.800, FAC, Rule 62-213.440(1)(b)1.a., FAC, Rules 2.201 and 2.501, JEPB]

Recordkeeping and Reporting Requirements

10. Records of gasoline tank truck loadings shall be kept in accordance with procedures found in 40 CFR 60.502(e).
[40 CFR 60.505, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

11. Records of control device operation shall be maintained for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

12. Reporting and recordkeeping shall be as follows:

Reporting/Recordkeeping Requirement	Applicable Rule
A. Tank truck vapor tightness tests shall be kept on file at the terminal in permanent form.	40 CFR 60.505(a)
B. Each tank truck file shall be updated annually.	40 CFR 60.505(b)
C. Monthly leak checks shall be kept on file at the terminal.	40 CFR 60.505(c)
D. Notifications to owner/ operator of each non-vapor tight truck shall be kept on file at the terminal.	40 CFR 60.505(d)

[40 CFR 60.505, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Emissions Unit No. 034 - Loading Rack Operation Annex II

Emissions Unit Description - Tank Truck Loading System loading gasoline, aviation gasoline, ethanol and/or gasoline/ethanol blends or lower vapor pressure VOL products.

Control Device - Zeeco Inc. Model 06-1 Vapor Combustor

Essential Potential to Emit (PTE) Parameters

1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200(243), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum throughput rate shall not exceed 225,000 gallons per hour and 600.0 x 10^6 gallons per year.
[Rule 62-4.070(3), FAC, and Rule 2.1301, JEPB]

3. Total organic compounds (TOC) shall not exceed 87.62 tons per year @ 35 milligrams per liter.
[Rule 40 CFR 60.502(b), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

4. 40 CFR 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals, and 40 CFR 60, Subpart A, General Provisions, Reporting Requirements, Notification Requirements, and Standards of Performance shall apply to the source described herein.
[Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance shall be performed in accordance with EPA RM 25A/25B (as described in 40 CFR 60, Appendix A) for total organic compounds.
[Rule 40 CFR 60.503, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

6. Specific testing requirements for vapor collection systems and tank trucks shall be as follows:

Specific Testing Required	Applicable Rule	Test Method
A. Vapor collection and liquid equipment gauge pressure during product loading	40 CFR 60.502(h)	40 CFR 60.503(d)
B. Potential sources of vapor leakage in vapor collection system	40 CFR 60.503(b)	EPA RM 21
C. Gasoline tank truck tightness*	40 CFR 60 502(e) and 40 CFR 60.505	EPA RM 27
*To be performed by tank truck owner/operator		
D. Vapor collection system, vapor processing system, and loading rack(s) shall be inspected for TOC liquid or vapor leaks	40 CFR 60.502(j)	Sight, sound, or smell detection method

Note: Item A and B above shall be performed during the compliance testing required in Specific Condition No. 5., item D shall be performed monthly.

7. Testing for TOC shall be conducted five (5) years from the date of May 1, 2008. Compliance shall be demonstrated annually in accordance with General Control Device Requirements, 40 CFR 60.18(b) from the date of May 1, 2008.
[Rule 40 CFR 60.503, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Monitoring of Operations

8. The terminal owner/operator must ensure that each truck's vapor collection system is connected to the terminal vapor collection system during loading of the tank trucks. Gasoline, aviation gasoline, and ethanol shall not be loaded into tank trucks unless the vapors are vented to the VCU. Distillate products may be loaded into tank trucks, which did not on the previous load carry gasoline, aviation gasoline, and/or ethanol, without being vented to the VCU.
[40 CFR 60.502(g), Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Compliance Assurance Monitoring

9. This emission unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), FAC, and Rule 2.1101, JEPB.
[40 CFR 64, Rules 62-204.800 and 62-213.440(1)(b)1.a., FAC, and Rules 2.201 and 2.501, JEPB]

Recordkeeping and Reporting Requirements

10. Records of gasoline tank truck loadings shall be kept in accordance with procedures found in 40 CFR 60.502(e).
[40 CFR 60.505, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

11. Records of control device operation shall be maintained for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-213.440(1)(b), FAC, and Rule 2.501, JEPB]

12. Reporting and recordkeeping shall be as follows:

Reporting/Recordkeeping Requirement	Applicable Rule
A. Tank truck vapor tightness tests shall be kept on file at the terminal in permanent form.	40 CFR 60.505(a)
B. Each tank truck file shall be updated annually.	40 CFR 60.505(b)
C. Monthly leak checks shall be kept on file at the terminal.	40 CFR 60.505(c)
D. Notifications to owner/ operator of each non-vapor tight truck shall be kept on file at the terminal.	40 CFR 60.505(d)

[40 CFR 60.505, Rule 62-204.800(7), FAC, and Rule 2.201, JEPB]

Emissions Unit No. 042 - Internal Floating Roof Tanks - Subpart Kb

Emissions Unit Description - Eight (8) internal floating roof storage tanks (Tank Nos. 231, 335, 4628, 6001, 6622, 11001, 15001 and 15002) storing gasoline, aviation gasoline, and/or gasoline/ethanol blends or lower vapor pressure petroleum products. Tank No. 6622 will be retrofitted with a liner and seal and may also store up to 100% ethanol.

Essential Potential to Emit (PTE) Parameters

1. This emissions unit (each vessel) is allowed to operate continuously, i.e., 8,760 hours per year.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid (VOL) Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, shall apply to the emission unit described herein. Applicable portions of Subpart A, General Provisions shall apply to the emission unit described herein.
[40 CFR 60, Subpart Kb, 40 CFR 60.7, Rule 62.204.800, FAC, and Rule 2.201, JEPB]

3. Each fixed roof in combination with an internal floating roof shall meet the following specifications:

(i) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(ii) Each internal floating roof shall be equipped with the following closure device (a mechanical shoe seal) between the wall of the storage vessel and the edge of the internal floating roof.

The mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

(iii) Each opening in a non contact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

(iv) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(v) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(vi) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(vii) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

(viii) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

[40 CFR 60.112b, Rule 62.204.800, FAC, and Rule 2.201, JEPB]

Test Methods and Procedures

4. After installing the control equipment (internal floating roof), each owner or operator shall:

   (i) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage tank with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.

   (ii) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Department in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

   (iii) Visually inspect the internal floating roof, the primary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in Specific Condition No. 5 (ii) above.

   [40 CFR 60.113b, Rule 62.204.800, FAC, and Rule 2.201, JEPB]

Monitoring of Operations

5. The owner or operator of these storage vessels shall keep readily accessible records showing the dimension of each storage vessel and an analysis showing the capacity of each storage vessel. These records shall be kept for the life of the storage vessels.
   [40 CFR 60.116b(a), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

6. The owner or operator of these storage vessels shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period for each storage vessel.
   [40 CFR 60.116b(c), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

7. The owner or operator of these storage vessels shall notify the Department within 30 days when the maximum true vapor pressure of the liquid exceeds the maximum true vapor pressure value of 5.2 kilo pascals (kPa).
   [40 CFR 60.116b(d), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

8. The maximum true vapor pressure of the VOL shall be determined in accordance with the methods and procedures specified in 40 CFR 60.116b(e).
[40 CFR 60.116b(e), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

Notification, Recordkeeping, and Reporting

9. Notify the Department in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraph (5)(i) and (5)(iii) above of this section to afford the Department the opportunity to have an observer present. If the inspection required by paragraph (5)(iii) above of this section is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the vessel, the owner or operator shall notify the Department at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Department at least 7 days prior to the refilling.
[40 CFR 60.113b, Rule 62.204.800, FAC, and Rule 2.201, JEPB]

10. The owner or operator of these storage vessels shall submit a notification of the date construction (or reconstruction as defined under 40 CFR 60.15) of an affected emission unit is commenced postmarked no later than 30 days after such date.
[40 CFR 60.7(a)(1), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

11. The owner or operator of these storage vessels shall submit a notification of the actual date of initial startup of an affected emission unit postmarked within 15 days after such date. The owner or operator shall furnish the Department with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR 60.7(a)(3).
[40 CFR 60.7(a)(3), 40 CFR 60.115b, Rule 62-204.800, FAC, and Rule 2.201, JEPB]

12. The owner or operator of these storage vessels shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of this emission unit.
[40 CFR 60.7(b), Rule 62-204.800, FAC, and Rule 2.201, JEPB]

13. The owner or operator shall keep a record of each inspection performed as required by 40 CFR 60.113b (a)(1), (a)(2), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
[40 CFR 60.115b, Rule 62-204.800, FAC, and Rule 2.201, JEPB]

14. If any of the conditions described in 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), a report shall be furnished to the Department within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.
[40 CFR 60.115b, Rule 62-204.800, FAC, and Rule 2.201, JEPB]

15. Records required by 40 CFR 60.7(f) shall be retained in a permanent form for a minimum period of five years, unless otherwise specified.
[40 CFR 60.7(f), Rule 62-213, FAC, Rule 62-204.800, FAC, Rule 2.501, JEPB and Rule 2.201, JEPB]

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