Permittee:
Jacksonville Aviation Authority
14201 Pecan Park Road
Jacksonville, FL 32218

DRAFT Permit No.: 0310601-001-AC
Facility ID No.: 0310601
SIC No(s).: 45
Project: Biological Waste Incinerator

This permit is for the construction of a biological waste incinerator. Jacksonville International Airport is located at 2400 Yankee Clipper Drive, Jacksonville, Duval County, FL 32218; UTM Coordinates: Zone 17, 434.31km East and 3372.76 km North; Latitude: 30° 29' 07" North and Longitude: 81° 41' 04" West.

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

Operation Permit Application Due Date:
Expiration Date:

Regulatory Compliance Department
Environmental Quality Division

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

RSP/HDS

Section I. Facility Information

Subsection A. Facility/Project Description

This permit is for the construction of a MediBurn Biological Waste Incinerator, Model No. 0MEDI-220. The MediBurn Biological Waste Incinerator is manufactured by Elastec/Marine. Jacksonville International Airport recently added a new route between the Bahamas and Jacksonville. This route will consist of two flights per week with increased frequency in the future. In accordance with the U.S. Department of Agriculture, deplaned waste from international flights, except Canada, must be processed separately, as the waste can potentially introduce plant pests and diseases. Jacksonville Aviation Authority plans to process the waste using a No. 2 diesel fuel oil fired batch incinerator. All deplaned waste from international flights shall be loaded into the incinerator unit.

The facility is a minor source of air pollution because the potential emissions of regulated air pollutants are less than 100 tons per year and the potential emissions of Hazardous Air Pollutants (HAP) are less than 10 tons per year for a single HAP and less than 25 tons per year for total HAP pursuant to Rule 62-210.200(173), FAC and Rule 2.301, JEPB.

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

EU No.	EU Description	Control Device
001	Biological Waste Incinerator	Secondary Chamber/Burner

Subsection C. Relevant documents

Air Construction Permit Application received October 6, 2014

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 Section 403.141, FS. The permittee is placed on notice that the Permitting Authority 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 Permitting Authority.

3. As provided in subsections 403.987(7), FS, 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 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 Permitting Authority rules, unless specifically authorized by an order from the Permitting Authority.

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 Permitting Authority 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 Permitting Authority rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Permitting Authority 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 Permitting Authority 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 Permitting Authority 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. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Permitting Authority for penalties or 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 Permitting Authority may be used by the Permitting Authority as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Permitting Authority rules, except where such use is prescribed by Sections 403.111 and 403.73, FS. 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 Permitting Authority 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 Permitting Authority rules.

11. This permit is transferable only upon Permitting Authority approval in accordance with Rule 62-4.120, FAC, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Permitting Authority.

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)
( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Permitting Authority rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Permitting Authority.
    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 Permitting Authority 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 Permitting Authority, 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 Permitting Authority, such facts or information shall be corrected promptly.

Subsection B. Specific Conditions

1. Any revision(s) to a permit (and application) shall be submitted to and approved by the Permitting Authority prior to implementing.
   [Rule 62-4.080(2), FAC, and Rule 2.1401, JEPB]

2. 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 Permitting Authority 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(3), FAC, and Rule 2.1401, JEPB]

3. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an air operation permit. The permittee shall submit the completed application, application fee, along with compliance records and test results, to the Permitting Authority ninety (90) days prior to the expiration date of the construction permit but no later than 90 days after completion of construction, 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 permit to operate.
   [Rule 62-4.070(3), F.A.C., and Rule 2.1401, JEPB]

4. The permittee shall notify the Permitting Authority fifteen (15) days prior to the date of each formal compliance test conducted for an emissions unit.
   [Rule 62-297.310(7)(a)9., FAC, and Rule 2.1201, JEPB]

5. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, the EU may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
   [Rule 62-297.310(2), FAC, and Rule 2.1201, JEPB]

6. Copies of the test report(s) shall be filed with the Permitting Authority within forty-five (45) days of completion of testing.
   [Rule 62-297.310(8)(b), FAC, and Rule 2.1201, JEPB]

7. Stack sampling facilities and control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

8. Control equipment shall be provided with a method of access that is safe and readily accessible.
   [Rule 62-297.310(6), FAC, and Rule 2.1201, JEPB]

9. In case of excess emissions resulting from malfunctions, the permittee shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC, and Rule 2.1401, JEPB. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Permitting Authority.
   [Rule 62-210.700(6), FAC, and Rule 2.301, JEPB]

10. 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)., FAC, and Rule 2.1101, JEPB]

11. 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 2.1101, JEPB]

12. 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].

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

14. The permittee shall submit all compliance related notifications and reports required of this permit to:

Regulatory Compliance Department
Environmental Quality Division
Ed Ball Building, 214 North Hogan Street, Suite 500
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 255-7130

Section III. Emission Units and Conditions

Emission Unit No. 001 – Biological Waste Incinerator

Emission Unit Description: **Biological Waste Incinerator, Model No. 0MEDI-220**

Control Device: **Secondary Chamber/Burner**

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate a maximum of 8760 hours per year.
[Rule 62-210.200(225), FAC and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process rate shall not exceed 50 pounds per hour of waste.
[Rule 62-210.200, F.A.C., and Rule 2.301, JEPB]

3. Visible Emissions (VE) shall not exceed 5% opacity. Fifteen (15%) opacity shall be allowed for one six minute period in any one-hour period.
[Rule 62-296.401(4)(b)1., FAC, and Rule 2.1101, JEPB]

4. Particulate matter emissions shall not exceed 0.100 grains per dry standard foot of flue gas, corrected to 7% O_2.
[Rule 62-296.401(4)(b)2.a., FAC, and Rule 2.1101, JEPB]

5. Hydrochloric acid emissions shall not exceed 4.0 pounds per hour.
[Rule 62-296.401(4)(b)2.b., FAC, and Rule 2.1101, JEPB]

6. Carbon monoxide emissions shall not exceed 100 parts per million by volume, dry basis, corrected to 7% O_2 on an hourly average basis.
[Rule 62-296.401(4)(b)5., FAC, and Rule 2.1101, JEPB]

7. The incinerator shall operate no less than 1800 degrees Fahrenheit for at least 1.0 second gas residence time in the secondary (or last) combustion chamber. The primary chamber and stack volume shall not be used in calculating this residence time.
[Rule 62-296.401(4)(c)1., FAC, and Rule 2.1101, JEPB]

Design and Operating Requirements

8. Mechanically fed units shall incorporate an air lock system to prevent opening the incinerator to the room environment. The volume of the loading system shall be designed to prevent overcharging, thereby assuring complete combustion of the waste.
[Rule 62-296.401(4)(c)2., FAC, and Rule 2.1101, JEPB]

9. Incineration or ignition of waste shall not begin until the secondary (or last) combustion chamber temperature requirement is attained. All air pollution control and continuous emission monitoring equipment shall be operational and functioning properly prior to incineration or ignition of waste and until all the wastes are incinerated. The secondary (or last) combustion chamber temperature requirement shall be maintained until the wastes are completely combusted.
[Rule 62-296.401(4)(c)3., FAC, and Rule 2.1101, JEPB]

10. The owner or operator is advised to contact the Department of Health regarding requirements that may apply to any proposed burning of radioactive waste.
[Rule 62-296.401(4)(c)4., FAC, and Rule 2.1101, JEPB]

11. The owner or operator is advised to contact the Department's Division of Waste Management regarding requirements that may apply to any proposed burning of hazardous waste.
[Rule 62-296.401(4)(c)5., FAC, and Rule 2.1101, JEPB]

Continuous Monitoring Requirements

12. Each owner or operator shall monitor the temperature at the exit of the secondary (or last) combustion chamber of the incinerator.
[Rule 62-296.401(4)(f), FAC, and Rule 2.1101, JEPB]

Training Requirements

13. Each operator of the incinerator shall successfully complete a training program meeting the requirements of 40 CFR 60.53c(c) and the annual refresher training requirements of 40 CFR 60.53c(f), adopted and incorporated by reference at Rule 62-204.800, FAC.
[Rule 62-296.401(4)(c)6., FAC, and Rule 2.1101, JEPB]

14. If a construction permit is required to modify the incinerator, each operator shall be retrained to operate the modified incinerator.
[Rule 62-296.401(4)(c)6.a., FAC, and Rule 2.1101, JEPB]

15. An operator's certificate must be kept on file at the facility for the duration of the operator's employment and for an additional two years after termination of employment.
[Rule 62-296.401(c)6.b., FAC, and Rule 2.1101, JEPB]

Test Methods and Procedures

16. Initial visible emissions (VE) compliance testing shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup in accordance with Environmental Protection Agency (EPA) Reference Method (RM) 9 (as described in 40 CFR 60, Appendix A) and annually thereafter.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

17. Initial VE compliance test shall be a minimum of 60 minutes [i.e., multi-valued opacity standard].
    [Rule 62-297.310(4)(a)2., FAC, and Rule 2.1201, JEPB]

18. Initial particulate matter (PM) compliance testing shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup in accordance with EPA RM 5 or 26A (as described in 40 CFR 60, Appendix A) and 135 days prior to permit renewal thereafter. The minimum sample volume shall be 30 dry standard cubic feet.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

19. Initial carbon monoxide (CO) compliance testing shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) and 135 days prior to permit renewal thereafter.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

20. Initial oxygen (O_2) compliance testing shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup in accordance with EPA RM 3 or 3A (as described in 40 CFR 60, Appendix A) and 135 days prior to permit renewal thereafter.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

21. Initial hydrochloric acid compliance testing shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup in accordance with EPA RM 26 or 26A (as described in 40 CFR 60, Appendix A) and 135 days prior to permit renewal thereafter.
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

Recordkeeping and Reporting Requirements

22. A daily operations log shall be kept by the operators showing the following:

    a. Date of incineration
    b. Name of the operator
    c. Type of material incinerated
    d. Weight (as weighed on scale) of materials placed in the primary chamber
    e. Time chamber was charged and number of hours taken for incineration.
    f. Minimum temperature of the secondary chamber during periods when incinerator is in operation.

    The above records shall be retained for the most recent two-year period and made available upon request
    [Rule 62-4.070(3), FAC, and Rule 2.1401, JEPB]

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