

**PERMITTEE:**

Martin Electronics, Inc.  
Rt. 1 Box 700  
Perry, Florida 32347

**Attn.:** Roy York, President

**I.D. Number:** FLD 047 966 593

**Permit/Cert. Number:** HO 62-215109

**Date of Issue:** January 14, 1999

**Expiration Date:** March 12, 2001

**County:** Taylor

**Lat/Long:** 29°58'13"N/83°39'37" W

**Section/Township/Range:** 17,18/6S/7E

**Project:** Construction & Operation of a hazardous waste miscellaneous unit-burn pad

This Permit is issued under the provisions of Chapter 403-722, Florida Statutes(F.S.), and Florida Administrative Code(F.A.C.) Rule(s) 62-4, 62-530, 62-550 and 62-730. 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 Department and made a part hereof and specifically described as follows:

To construct and operate a hazardous waste miscellaneous unit-burn pad, consisting of four burn pads, for the thermal treatment of reactive and shock sensitive hazardous wastes, at Martin Electronics, Inc., located on S.R. 361A, 12 miles southwest of Perry, Taylor County, Florida. Attachment A of the Permit describes the design of the unit.

The unit will be constructed of a 6" thick by 75' x 105' continuous monolithic 3000 psi concrete pad with a 8" x 8" wide concrete curb along the perimeter. The concrete surface of the unit will be coated with a chemical and heat resistant sealant. The concrete pad will be constructed on top of a 6" thick 85' x 115' lime rock base. Four 6" thick reinforced 3000 psi concrete burn pads with dimensions of 15' x 30' will be constructed on top of the concrete pad. Each burn pad will have 8" high berm along the perimeter. Elevated metal burn pans constructed of cold rolled steel with maximum dimensions of 26' x 11' x 1' will be placed in each concrete pad. Removable metal screens will be positioned three inches from the top of each burn pan to contain ejection of large particles from the burn pan.

Similar to the burn pans, burn cages constructed of cold rolled steel with maximum dimensions of 13' x 8' x 6' may be used in place of burn pans. The burn pads will be kept covered with an aluminum cover, mounted over an I-beam trolley rail, when the unit is not in operation. The design specifications and material of construction for the miscellaneous unit are described in Subattachment II.I.1.1 of the Permit Application dated June 17, 1992, and revised May 16, 1995, hereafter referred to as the Permit Application.

Thermal treatment of the wastes will be in accordance with the procedures described in Attachment II.A.5 of the Permit Application. The hazardous waste facility will be constructed and operated for the thermal treatment of reactive pyrotechnic powder/composite cuttings, shavings, residues, slurries, and unacceptable parts and contaminated industrial materials (hazardous waste code D003). The pyrotechnic powder/composite cuttings, shavings, residues slurries, and unacceptable parts may also carry hazardous waste codes D005, D006, D007 and D008. The contaminated industrial materials may also carry hazardous waste codes D005, D006, D007, D008, F002, F003 and F005. This permit authorizes thermal treatment of only onsite-generated waste specified above.

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Operation of the entire facility will be in accordance with the revised Permit Application dated December 8, 1995, additional information submitted on March 8, 1996 and permit modification information submitted on April 4, 1997, June 18, 1997, July 2, 1997, October 3, 1997 and August 19, 1998.

This permit is a modification of the permit that was originally issued on March 13, 1996, and contains Specific Conditions proposed in October 26, 1998, permit modification. It also contains the Specific Conditions modified on November 12, 1997 and May 15, 1998. No other changes are made to the March 13, 1996, permit.

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1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this Permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants, or representatives.
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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this Permitted source, 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 at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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, 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 the Permit;
  - b. Inspecting the facility, equipment, practices, or operations regulated or required under this Permit; and

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- 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 notify and provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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 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 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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
- 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, operation, or closure.
- 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, PQL 92-500)
  - ( ) Compliance with New Source Performance Standards

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14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain 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), copies of all reports required by this Permit, and records of all data used to complete the application for this Permit. The time period of retention shall be 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 measurements;
    - the person responsible for performing the sampling or measurements;
    - 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.
15. When requested by the Department, the permittee shall, within a reasonable period of 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 submitted or corrected promptly.
16. In the case of a hazardous waste facility Permit, the following Permit conditions shall also apply.
- a. The permittee will submit the following reports to the Department:
    - (1) Manifest discrepancy report: If a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy. If not resolved within 15 days after receiving the waste, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
    - (2) Unmanifested waste report: Permittee shall submit an unmanifested waste report to the Department within 15 days of receipt of unmanifested waste.
    - (3) Biennial report: A biennial report covering facility activities during the previous calendar year must be submitted to the Department by March 1 of each even numbered year in accordance with Florida Administrative Code Chapter Rule 62-730.

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- b. Notification of any non-compliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies, or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be verbally submitted to the Department within 24 hours and a written submission provided within 5 days. The verbal submission within 24 hours shall contain the name, address, I.D. number and telephone number of the facility and owner or operator, the name and quantity of materials involved, the extent of injuries (if any), an assessment of actual or potential hazards, and the estimated quantity and disposition of recovered material. The written submission shall contain the following:
  - (1) a description of and cause of non-compliance; and
  - (2) 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.
- c. Reports of compliance or non-compliance with, or any progress reports on, requirements contained in any compliance schedule of this Permit shall be submitted no later than 14 days following each schedule date.
- d. All reports or information required to be submitted to the Department by a hazardous waste permittee shall be signed by a person authorized to sign a Permit Application.

## **SPECIFIC CONDITIONS:**

### **PART I - Construction Requirements**

- 1. The permittee shall construct the facility in accordance with the design plans and specifications in the revised Permit Application.
- 2. Within thirty (30) days of completion of construction, the permittee shall submit to the Department by certified mail or hand delivery, a certification signed by both the permittee and an independent professional engineer registered in the state of Florida, stating that the construction has been completed in accordance with the design parameters specified in the Permit Application. The certification shall include as-built drawings with the seal and signature of a professional engineer registered in the State of Florida. [Rule 62-730.220(7), FAC]
- 3. The permittee may begin to operate the facility twenty (20) days after submitting the as-built certification, required pursuant to Specific Condition 2 of this Part, unless the Department notifies the facility not to begin operation.

### **PART II - General Operating Requirements**

- 1. The permittee shall maintain the facility to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment, in accordance with 40 CFR 264.31.

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2. Prior to treatment of hazardous waste(s) other than those listed in Specific Condition 1, Part III of the permit, the permittee shall comply with the notification or permit modification requirements in paragraph a, b or c below. The permittee shall not treat a new waste stream until the Permit has been modified by the Department or written authorization is granted by the Department. [40 CFR 264.13].
  - a. For any new waste stream which is identical in constituents and concentrations as those in Specific Condition 1, Part III of the permit and which varies only by trade name, a permit modification will not be required. However, the permittee shall notify the Department in writing of the composition information of the identical permitted waste stream and the new waste stream prior to treating them.
  - b. For any new waste stream which contains identical constituents as those in Specific Condition 1, Part III of the permit and varies by ten percent or less in concentrations of those constituents, the permittee shall submit to the Department a request for a minor permit modification. The request must include the composition information for both the new and the permitted waste stream.
  - c. For any new waste stream which contains constituents which are different from those listed in Specific Condition 1, Part III of the permit or any new waste stream which varies in concentration by more than ten percent from those listed in Specific Condition 1, Part III of the permit, the permittee shall submit to the Department a request for a major permit modification. This request shall contain a complete waste analysis which includes descriptions of the waste in its original composition and the thermal decomposition products of the proposed new waste stream. This analysis must be incorporated in the general waste analysis plan and retained on site.
3. The permittee shall follow the procedures described in the waste analysis plan, Attachment II.A.6 of the Permit Application. [40 CFR 264.13(b)].
4. The permittee shall comply with the security provisions of 40 CFR 264.14(b)(2) and (c).
5. The permittee shall inspect the facility operating, emergency, and safety equipment in accordance with the schedule approved in Table II A.4(b)-1, Attachment II.A.4(b) and Figure II.I.1-4, Attachment II.I.1 of the Permit Application. The permittee shall remedy any deterioration or malfunction discovered by an inspection, in accordance with the requirements of 40 CFR 264.15(c). Changes, additions, or deletions to the schedule must be approved in writing by the Department. The schedule must be maintained as part of the operating record of the facility. [40 CFR 264.15]
6. Facility personnel must successfully complete the approved training program indicated in Attachment II.A.4(e) of the Permit Application within six (6) months of employment or assignment to the facility or to a new position at the facility. Verification of this training must be kept with the personnel training records and maintained on site. Personnel shall not work unsupervised until training has been completed. The training must be reviewed by facility personnel at least once annually. Facility shall maintain an updated list of personnel handling hazardous waste and their respective job titles at the site.
7. The permittee shall comply with the general requirements of 40 CFR 264.17(a) and (b), and the location requirements of 40 CFR 264.176.

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8. The permittee shall comply with the following conditions concerning preparedness and prevention:
  - a. At a minimum, the permittee shall equip the facility with the equipment described in the contingency plan, Table II.A.4(b)-2 of the Permit Application, as required by 40 CFR 264.32.
  - b. The permittee shall test and maintain the equipment specified in Specific Condition 8(a), of this part, as necessary to ensure its proper operation in time of emergency, as required by 40 CFR 264.33.
  - c. The permittee shall maintain access to the communications or alarm system, as required by 40 CFR 264.34.
  - d. The permittee shall maintain arrangements with state and local authorities as required by 40 CFR 264.37. If state or local officials refuse to enter into preparedness and prevention arrangements with the permittee, the permittee must document this refusal in the operating record.
9. The permittee shall comply with the following conditions concerning the contingency plan:
  - a. The permittee shall immediately carry out the provisions of the contingency plan, Attachment II.A.4(b) of the Permit Application, and follow the emergency procedures described by 40 CFR 264.56, whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threaten human health or the environment. The permittee shall give proper notification if an emergency situation arises and within fifteen (15) days must submit to the Department a written report which includes all information required in 40 CFR 264.56(j).
  - b. The permittee shall comply with the requirements of 40 CFR 264.53.
  - c. Within seven (7) days of meeting any criteria listed in 40 CFR 264.54(a), (b), or (c), the permittee shall amend the plan and submit the amended plan for Department approval. Any other changes to the plan must be submitted to the Department within seven (7) days of the change. All amended plans must be distributed to the appropriate agencies.
  - d. The permittee shall comply with requirements of 40 CFR 264.55, concerning the emergency coordinator.
  - e. The Department of Environmental Protection's 24-hour emergency telephone number is (800)320-0519 or (904)413-9911. During normal business hours, the Department's Northeast District Office may be contacted at (904)448-4320.
10. The permittee shall comply with the manifest requirements of 40 CFR 264.71, 264.72, and 264.76.

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11. The permittee shall maintain a written operating record at the facility which includes:

- a. the description and quantity of each hazardous waste handled and the method(s) and date(s) of its treatment, storage or disposal at the burn unit, as specified in 40 CFR 264.73(b)(1).
- b. the location of each hazardous waste within the facility, and the quantity at burn unit;
- c. the results of waste analyses;
- d. a summary report and details of incidents that require implementation of the contingency plan;
- e. manifest numbers;
- f. Land Disposal Restriction documents as specified in 40 CFR 264.73(b)(12);
- g. the results of inspections (for 3 years);
- h. annual certification of waste minimization;
- i. the closure plan and closure cost estimates;
- j. biennial reports; and
- k. air, soil and groundwater monitoring data.

These records must be maintained at the facility until completion of closure and the certification of closure is accepted by the Department. [40 CFR 264.73]

12. In the event that the permittee treats, stores, or disposes of hazardous wastes onsite where such wastes were generated, then the permittee must comply with 40 CFR Part 264.73(b)(9), and the permittee must certify, no less often than annually, that:

- a. The permittee has a program in place to reduce the volume and toxicity of hazardous waste generated to the degree determined by the permittee to be economically practicable;
- b. The proposed method of treatment, storage or disposal is the most practicable method available to the permittee which minimizes the present and future threat to human health and the environment; and,
- c. The permittee shall maintain copies of certification in the facility operating record as required by 40 CFR 264.73(b)(9).

13. The permittee shall develop a waste minimization program, as detailed in Specific Conditions 12 a. and 12 b. of this part, that shall, at a minimum, address the following elements:

**a. Top management support:**

1. A dated and signed policy describing management support for waste minimization and for implementation of a waste minimization plan,
2. A description of employee awareness and training programs designed to involve employees in waste minimization planning and implementation to maximize the extent feasible, and
3. A description of how a waste minimization plan has been incorporated into management practices so as to ensure ongoing efforts with respect to produce design, capital planning, production operations, and maintenance;

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**b. Characterization of waste generation:**

Identification of types, amounts, and hazardous constituents of waste streams, with the source and date of generation;

**c. Periodic waste minimization assessments:**

1. Identification of all points in a process where materials can be prevented from becoming a waste, or can be recycled,
2. Identification of potential waste reduction and recycling techniques applicable to each waste, with a cost estimate for capital investment and implementation,
3. Description of technically and economically practical waste reduction/recycling options to be implemented, and a planned schedule for implementation,
4. Specific performance goals, preferably quantitative, for the source reduction of waste by stream. Whenever possible, goals should be stated as weight of waste generated per standard unit of production, as defined by the generator.

**d. Cost allocation system:**

1. Identification of waste management costs for each waste, factoring in liability, transportation, recordkeeping, personnel, pollution control, treatment, disposal, compliance, and oversight costs to the extent feasible,
2. Description of how departments are held accountable for the wastes they generate,
3. Comparison of waste management costs with costs of potential reduction and recycling techniques applicable to each waste;

**e. Technology transfer:**

Description of efforts to seek and exchange technical information on waste minimization from other parts of the company, other firms, trade associations, technical assistance programs, and professional consultants;

**f. Program evaluation:**

1. Description of types and amounts of hazardous waste reduced or recycled,
2. Analysis and quantification of progress made relative to each performance goal established and each reduction technique to be implemented,
3. Amendments to waste minimization plan and explanation,
4. Explanation and documentation of reduction efforts completed or in progress before development of the waste minimization plan, and
5. Explanation and documentation regarding impediments to hazardous waste reduction specific to the individual facility.

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14. 40 CFR Part 268 identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances in which an otherwise prohibited waste may continue to be placed on or in a land treatment, storage, or disposal unit. The permittee shall maintain compliance with the requirements of 40 CFR Part 268. If the permittee has applied for an extension, waiver, or variance under 40 CFR Part 268, the permittee shall comply with all restrictions on land disposal under this Part once the effective date for the waste has been reached pending final approval of such application.
15. A restricted waste identified in 40 CFR Part 268 Subpart C may not be placed in a land disposal unit without further treatment unless the requirements of 40 CFR Part 268 Subparts C and/or D are met.
16. The storage of hazardous wastes restricted from land disposal under 40 CFR Part 268 is prohibited unless the requirements of 40 CFR Part 268 Subpart E are met.

### **PART III - Thermal Treatment Unit**

1. The permittee is allowed to thermally treat, in the burn pans and burn cages, only the following onsite-generated hazardous wastes, as described in Table II.A.5-1, Attachment II.A.5 of the Permit Application, in accordance with the work instruction #MEI-TT-1003, submitted on April 4, 1997:
  - a. pyrotechnic powder/composite cuttings, shavings, residues, slurries and unacceptable parts (hazardous waste code D003 which may also carry hazardous waste codes D005, D006, D007 and D008);
  - b. industrial materials contaminated with reactive wastes (hazardous waste code D003 which may also carry hazardous waste codes D005, D006, D007 and D008); and
  - c. industrial materials contaminated with both trace amounts of solvents and reactive wastes (hazardous waste codes D003 which may also carry hazardous waste codes D005, D006, D007 D008, F002, F003 and F005).**Modified:** 11/12/97
2. The permittee shall not thermally treat more than 500 pounds of hazardous waste on any single day. The permittee shall not accept any hazardous waste, for thermal treatment or any other purpose, that is generated offsite without receiving written permission from the Department.
3. The permittee shall not exceed the amounts/quantity listed as the maximum burn batch size for any of the waste streams listed in Subattachment II.0.3-1(1) of the Permit Application.
4. The permittee shall comply with waste compatibility requirements of 40 CFR 264.17(b).
5. The permittee is prohibited from:
  - a. treating on the burn pad(s) waste streams not identified and described in Condition 1 of this part.
  - b. treating on the burn pad(s) any waste solvents, in any form, other than those specified in Specific Condition 1.c. of this part, including propellant or oxidizer contaminated with solvents.

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- c. treating inert (i.e., nonhazardous) waste on the burn pad(s) except for the Group V-contaminated industrial materials listed in Attachment II.A.5 of the Permit Application and that are necessary for the safe handling of DOD/DOT Class 1.3 material.
  - d. boiling off any water/liquid phase, except incidental evaporation of moisture, on the burn pad.
6. The permittee shall comply with the following requirements prior to thermal treatment:
- a. Waste may be placed on the pad only when a thermal treatment event is planned within four (4) hours.
  - b. Waste shall not be placed on the pad unless the pad has been cleared of residue from the previous thermal treatment event.
  - c. Thermal treatment shall not occur whenever any of the following meteorological conditions are present or expected within two (2) hours before or after the treatment schedule:
    - forecast for heavy thunderstorms and lightning;
    - the surface wind speed is greater than 15 miles per hour; for treatment of lead azide, MK 46 igniter component and MK 124 flares, the wind speed shall be between 4.5 and 15 miles per hour; and
    - humidity is less than 30%.
  - d. Thermal treatment shall take place only between 8:00 A.M. and 5:00 P.M., Monday through Friday.
  - e. All of the hazardous waste destined for thermal treatment shall be collected, transported, placed on the burn pad(s) and treated in accordance with the work instructions listed in Subattachment II.A.5-1 of the Permit Application.
  - f. On the day of each scheduled thermal treatment event and prior to transporting the waste to the burn pad(s) the permittee shall:
    - verify and record the meteorological conditions listed in the Specific Condition 6.c. of this part;
    - inspect the concrete pads for hot spots, cracks and loose or broken floor or berms;
    - inspect burn pans/burn cages for hot spots or loose parts;
    - remove all unauthorized personnel and vehicles within 1250 feet radius of the perimeter of the burn pad;
    - inspect the fire truck for sufficient water quantity; and
    - check the water pump on the fire truck to see if it is operational.
    - maintain written records of all of the information observed per the requirements of this specific condition and keep them as part of the operating records.
7. If unexpected meteorological conditions arise or if technical difficulties (such as a hangfire) develop, the permittee may allow the material to remain on the pad under the following conditions:

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- the pad is covered as soon as safety conditions allow;
- the waste is treated, in compliance with Specific Condition 6 of this part, as soon as the conditions become safe;
- no additional waste is placed on the pad.

The permittee shall remove the waste from the burn pad(s) within four (4) hours, if the permittee determines that meteorological conditions or technical difficulties will prevent the treatment on the same day, and the waste can be safely removed from the burn pad(s). The cause for the postponement shall be recorded in the operating record.

8. The permittee shall complete removal of ash, spilled or leaked waste and other residues from the burn pad(s), concrete surfaces and surrounding soils on the same day of the thermal treatment, in accordance with the work instruction #MEI-TT-1004, Subattachment II.A.5-1 of the Permit Application. The ash may be removed next day in case if the permittee determines at the end of day that it is too hot to manage. Any accumulated precipitation within the burn pad must be removed within 24 hours and then disposed of in accordance with Attachment II.I.1 of the Permit Application.  
**Modified:** 11/12/97
9. The permittee shall manage ash and other residues, removed from the burn pad(s), in accordance with the procedures described in Attachment II.A.5, II.A.6 and II.I.1 of the Permit Application.
10. Thermal treatment of the hazardous waste shall be conducted by qualified personnel, experienced in handling such reactive material, under the supervision of a law enforcement official, Department of Defense official, bomb squad official, or other agency or MEI personnel who has received a Blaster Permit as issued by the Bureau of Explosives and Fire Equipment, Division of State Fire Marshal's Office, Department of Insurance and Treasury.
11. The permittee shall provide adequate fire protection to ensure confinement and control of any fire resulting from the operation, as specified in the Subattachment II.A.5-1 of the Permit Application. The permittee shall notify the local fire department of the on-going nature of on-site thermal treatment of reactive waste, and shall allow local fire officials (State Department of Forestry or the Taylor County Fire Marshal) to observe and provide additional fire protection.
12. All the burn pans and burn cages that are determined by the permittee to be no longer usable for the thermal treatment shall be decontaminated and disposed of, within 30 days of such determination, in accordance with the decontamination and disposal procedures for the clean debris as described in the September 28, 1995 submittal. A report describing all the decontamination activities must be submitted to the Department, within 15 days of completion of decontamination.
13. The permittee shall conduct inspections of the miscellaneous unit, on each day of the thermal treatment and weekly when the unit is not in operation, in accordance with Figure II.I.1-5, Attachment II.I.1 of the Permit Application, to detect precipitation, stains, residues from incomplete combustion, accumulation of stormwater and integrity of burn pads and concrete pad including berms. If a significant deterioration of the concrete pads or joint sealant material is noted during inspections, the permittee shall re-evaluate the need for repairing the facility and the need for a protective coating on the burn pad. All the

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inspection reports including corrective actions must be recorded and kept as part of the operating records. [40 CFR 264.15]

14. The permittee shall implement appropriate remedial actions for the problems discovered during the inspections conducted pursuant to the Specific Condition 13 of this part. For problems that cannot be remediated within 48 hours, the permittee shall notify the Department within three (3) working days and follow up with a written report within fourteen (14) days of discovering such problems. The report must include descriptions of the remedial actions taken. The permittee shall cease operation of the burn pad(s) until completion of the necessary repairs.
15. The permittee shall submit a quarterly report describing the activities at the burn pad, to the Department by the twentieth of the month following the quarter. The quarterly report shall include the following information:
  - a. Description and quantity of each hazardous waste received and treated at the unit.
  - b. Dates of its treatment.
  - c. Location of each hazardous waste within the accumulation areas (material storage buildings as shown in Attachment C of this Permit) and quantity at each location at the end of the reporting period.
  - d. Summary reports and details of all incidents that require implementation of the contingency plan at the unit.
  - e. List of personnel present at each event.
  - f. Weather conditions to include humidity, weather forecast, wind speed and wind direction at each event.
  - g. Copies of manifests showing disposition of burn residues and/or the quantity of burn residues onsite at the end of the reporting period.
  - h. Details of any problems discovered during inspections conducted pursuant the Specific Condition 13 of this part and details of remedial actions taken.
16. The permittee shall maintain compliance with the environmental performance standards listed in 40 CFR 264.601 at all times.
17. In the June 21, 1990, Federal Register, EPA published the final rule for Phase I Organic Air Emission Standards (40 CFR Parts 264 and 265, Subparts AA and BB) for hazardous waste treatment, storage, and disposal facilities. Subpart AA contains emission standards for process vents associated with distillation, fractionation, thin-film evaporation, solvent extraction, and air or steam stripping operations that process hazardous waste with an annual average total organic concentration of at least ten (10) parts per million (ppm) by weight. Subpart BB contains emission standards that address leaks from specific equipment (i.e., pumps, valves, compressors, etc.) that contains or contacts hazardous waste that has an organic concentration of at least ten (10) percent by weight.

Prior to constructing any equipment with process vents subject to the requirements of 40 CFR Part 264, Subpart AA or installing any additional equipment subject to the

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requirements of 40 CFR Part 264, Subpart BB, the permittee shall supply the specific information required in Part II, Sections R and S of the Hazardous Waste Facility Permit Application Instructions and Forms, pursuant to Rule 62-730.220(1), FAC, as applicable.

#### **PART IV - Soil Monitoring**

1. The permittee shall collect soil samples in January of every year, from the top 6" of soils, at all the soil sample locations shown in the Attachment B of this permit.  
**Modified:** 1/14/99
2. The permittee shall collect soil samples in July of every year, from the top 6" of soils, at the soil sample locations of 35' and 45' as shown in Attachment B of this permit.  
**Modified:** 1/14/99
3. The permittee shall not collect soil samples, required under this permit, from the same soil borings that have been previously sampled.
4. All of the soil samples collected pursuant to the Specific Conditions 1 and 2 of this Part shall be analyzed for the following parameters using the analytical methods listed in the Quality Assurance Project Plan approved by the Department on September 4, 1997:

#### **Nonexplosives**

Arsenic	Chromium	Manganese	Titanium
Barium	Copper	Nickel	Zinc
Boron	Lead	Potassium	Zirconium
Cadmium	Magnesium	Strontium	Antimony
Fluoride	Nitrogen (Total Kjeldahl)		
Chloride	Nitrate + Nitrite-N		
Acetone	Hydrocarbons as Diesel Fuel		
Isopropanol			

#### **Explosives**

Percent Moisture	PETN	Nitrobenzene
Nitrocellulose	RDX	Tetrazine
Nitroglycerin	HMX	2,4-Dinitrotoluene
1-Methyl aminoanthraquinone	Styrene	Diphenylamine

**Modified:** 11/12/97

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5. The permittee shall submit a soil analyses report to the Department within sixty (60) days of any soil sampling event required in Specific Conditions 1 and 2 of this Part. The report must contain the analytical data, summary of analytical data, soil sampling location map and other pertinent information. The report shall also contain the detailed analysis of the data, specified in Specific Condition 6 of this part, to determine if cleanup is required. If the permittee is unable to submit analyses report within the specified time, the permittee must comply with General Condition 8 of this permit.

**Modified:** 1/14/99

6. If any soil sample parameter concentration exceeds the interim soil cleanup goal specified in Part IV, Specific Condition 7, or if the sum of the parameter mean plus one standard deviation based on a log normal distribution (the general unit limit (GUL)) for each sampling event exceeds the levels specified in Part IV, Specific Condition 7, then the permittee shall:
  - a. Notify the Department of these findings within seven (7) calendar days. The notification must include a list of parameters which exceeded exposure concentrations, their locations and respective concentration levels.
  - b. If the exceedance is related to an individual point, then within fourteen (14) days collect soil samples from the same location(s) and analyze them for the subject parameter(s). The permittee shall provide the Department with analytical data within forty-five (45) days of sampling.
  - c. If the exceedance is related to the GUL, then the permittee shall determine if the exceedance is related to elevated parameter concentrations at isolated sampling points in which case the permittee shall within fourteen (14) days collect soil samples from the same location(s) and analyze them for the subject parameter(s). The permittee shall provide the Department with analytical data within forty-five (45) days of sampling.
  - d. If the exceedance is related to the GUL, and the permittee cannot correlate the exceedance to isolated sampling points, then the permittee may opt to conduct a complete round of resampling or may elect to submit a permit modification request to the Department for assessment and remediation of the soil contamination. The permittee shall provide analytical data to the Department within forty-five (45) days of resampling or a permit modification request within forty-five (45) days of the original submittal required by specific condition 6.a of this Part. The modification must also include revised operating practices to ensure that GULs are not exceeded as a result of continuing operations.
  - e. If resampling confirms that the concentration of any parameter is above the soil concentration limits in specific condition 7 of this Part or that individual sampling points are the source of the GUL exceedance, then the permittee shall submit a permit modification request to the Department, for assessment and remediation of the soil contamination, within thirty (30) days of submitting the soil analysis data from the resampling event. The modification must also include revised operating practices to assure that GULs are not exceeded as a result of continuing operations.

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7. The interim soil cleanup goals, the mean soil parameter concentration and the standard deviation based on sampling data submitted on June 23, 1995, and the GUL are:

<b>Parameter**</b>	<b>Interim Soil Cleanup Goal</b>	<b>Mean Deviation</b>	<b>Standard</b>	<b>GUL</b>
Antimony	26	+	+	+
Arsenic	0.8	0.048	0.218	0.266
Barium	105	34.97	87.2	122.24
Boron	7000	0.26	1.37	1.63
Cadmium	75	+	+	+
Chromium <sup>+6</sup>	290	6.16	12.23	18.39
Chromium <sup>+3</sup>	66000	6.16	12.23	18.39
Copper	105	908.94	3495.96	4404.9
Lead	400	25.92	34.91	50.83
Magnesium	*	1250.84	2634.58	3885.42
Manganese	1600	17.53	11.75	29.28
Nickel	105	9.07	20.04	29.11
Strontium	47000	16.63	36.69	53.32
Titanium	*	8.13	4.72	12.85
Zinc	23000	247.59	863.76	1111.35
Zirconium	*	3.88	12.74	16.62
Diphenylamine	PQL	+	+	+
HMX	PQL	+	+	+
RDX	6.7	0.02	0.111	0.131
1-Methyl amino-anthraquinone	PQL	+	+	+
Nitrocellulose	PQL	0.028	0.194	0.222
Styrene	1700	+	+	+
Chloride	*	26.629	27.106	53.735
Fluoride	500	0.098	0.431	0.529
Nitrogen (total Kjeldahl)	*	190.398	161.24	351.638
Nitrate	120000	1.347	2.261	3.608
Nitrite	3.4	1.347	2.261	3.608
Potassium	*	10	50.813	60.813
PETN	PQL	+	+	+
2,4-Dinitrotoluene	1.3	+	+	+
Nitrobenzene	16	+	+	+
Tetrazine	PQL	+	+	+
Hydrocarbons (as Diesel Fuel)	50	+	+	+

\* Background – The permit may be modified to incorporate a specific level.

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\*\* Units for all parameters are mg/kg.

+ The permit may be modified to incorporate a specific level when more data become available.

PQL – Practical Quantitation Limit.

**Modified:** 11/12/97; 1/14/99

8. The permittee shall provide the Department with opportunities to observe soil sampling and split samples by providing written notification at least seven (7) calendar days prior to each sampling event.

#### **PART V - Groundwater Monitoring**

1. The Waste Management Area [40 CFR 264.95(b)] shall be designated by an imaginary line circumscribing the miscellaneous unit and adjacent Point of Compliance (POC), as indicated in Attachment C of this permit.
2. The POC [40 CFR 264.95(a)] shall be the south and west edges of the Waste Management Area, as shown on Attachment C of this permit.
3. The POC wells are PC-1, PC-2, PC-3, PC-5 and PC-6. The background well is PC-4. If future groundwater elevation monitoring indicates a change in groundwater flow direction, this Permit may be modified to require the installation of additional monitoring wells and revisions to the groundwater monitoring plan.
4. Within fifteen (15) calendar days of installation of any new monitoring well(s), the permittee shall submit the following information:
  - a. A **Well Construction Summary Report** [Form 62-730.900(2)(b)];
  - b. A location map of all new and existing wells with correct orientation and scale;
  - c. A description of protective devices for each well;
  - d. A description of well development procedures and duration of well development;
  - e. A description of the containerization, characterization and disposal of cuttings, drilling muds and fluids, and purge water; and,
  - f. Detailed lithologic logs including the description of soils and the classification used, the geologist or geotechnical person responsible for compiling the lithologic logs, the sampling devices, and the sampling intervals.
5. Upon Permit issuance, the facility shall be in Detection Monitoring under 40 CFR 264.98.

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6. The permittee shall perform replicate sampling on monitoring wells PC-1, PC-2, PC-3, PC-4, PC-5 and PC-6, in February, May, August, and November of each year, pursuant to 40 CFR 264.98(d). Each of the above monitoring wells must be sampled a total of four times, at four days intervals, during each of the above specified months. The permittee shall submit the analytical results to the Department within sixty (60) calendar days of the sampling event. If the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.
7. The permittee shall measure groundwater elevations the first day of each quarterly sampling event [40 CFR 264.97(f)]. All groundwater elevations must be measured within the same eight (8) hour period. These data shall be used to determine the quarterly groundwater flow directions and flow rates. The method used to determine groundwater elevations shall be included with the report required by Specific Condition 9 of this Part.
8. Total depth of all wells must be determined by physical measurement in August of every year to determine if siltation of any well has occurred. If siltation is discovered, it shall be repaired and reported to the Department within thirty (30) calendar days of discovery. The method used to determine the total depth of each well shall be included with the report required by Specific Condition 9 of this Part.
9. The permittee shall submit to the Department groundwater monitoring reports that include information required pursuant to Specific Conditions 7, 8, 11, 13, 16 and 17 of this Part. The groundwater monitoring data generated from the sampling events shall be submitted to the Department within sixty (60) calendar days of the completion of sampling events.
10. All groundwater sampling and analysis shall be conducted in accordance with the Quality Assurance Project Plan (QAPP) approved on October 4, 1994. The permittee shall revise the QAPP whenever there is a change in sampling and/or analytical procedures, including personnel or laboratory. The revised plan or revisions must be submitted to the Department for approval within thirty (30) days of such changes.
11. The permittee shall sample all wells, specified in Specific Condition 6 of this Part, for the following parameters:

Antimony	Arsenic	Barium	Boron
Cadium	Chromium	Copper	Lead
Magnesium	Manganese	Nickel	Potassium
Selenium	Strontium	Titanium	Zinc
Zirconium			
Chloride		Sulfide	pH
Fluoride		Specific Conductance	
Total Nitrogen (as Nitrate + Nitrite)		Turbidity	
Diphenylamine		PETN	Styrene
Hydrocarbons (as Diesel Fuel)		RDX	Tetrafluoroethene
1-Methyl aminoanthraquinone		HMX	Tetrazine

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The permittee shall sample all wells specified in Specific Condition 6 of this Part for the following parameters if the soil sampling required by Specific Conditions 1 and 2, Part IV of this permit shows the presence of the following parameters:

Acetone  
2,4-Dinitrotoluene  
Nitrocellulose

Isopropanol  
Nitrobenzene  
Nitroglycerin

**Modified:** 11/12/97; 5/15/98: 1/14/99

12. The Maximum Contaminant Level (MCL) [40 CFR 264.94] for the constituents in Specific Condition 12 of this Part are as follows:

Parameter	MCL(mg/l)
Antimony	0.006
Arsenic	0.05
Barium	2
Boron	0.63
Cadmium	0.005
Chromium	0.1
Copper	1.0
Lead	0.015
Magnesium	17.5
Manganese	0.05
Nickel	0.1
Potassium	125
Selenium	0.05
Strontium	4.2
Titanium	0.048
Zinc	5
Zirconium	0.175
Acetone	0.7
2,4-Dinitrotoluene	0.0002
Diphenylamine	0.175
HMX	1.8
Hydrocarbons (as Diesel Fuel)	3.2
Isopropanol	4.690
1-Methyl aminoanthraquinone	0.010
Nitrobenzene	0.004
Nitrocellulose	0.1
Parameter	MCL(mg/l)

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Nitroglycerin	0.017
PETN	11.9
RDX	0.001
Styrene	0.1
Tetrafluoroethene*	0.043
Tetrazine	0.091
Total Nitrogen (as Nitrate + Nitrite)	10
Chloride	250
Fluoride	2
Sulfide	0.1

mg/l = milligrams per liter

\* = No analytical method is currently available. When an analytical method is available and accepted by the Department, the permittee shall modify the Quality Assurance Project Plan for this parameter.

**Modified:** 11/12/97; 5/15/98; 1/14/99

13. The permittee shall use the statistical method in section II.M.5 (dated April 4, 1997) of the Permit Application to compare the background well with downgradient POC wells.  
**Modified:** 11/12/97; 5/15/98
14. The permittee shall, at a minimum, inspect the integrity of groundwater monitoring wells during each groundwater monitoring event and notify the Department in writing of any damage requiring repair (not maintenance) to the groundwater monitor wells and provide a schedule for repair within seven (7) calendar days. A description of repairs shall be provided within seven (7) calendar days after the damage has been corrected.
15. Abandonment of monitoring wells shall be performed in accordance with Rule 62-532.500(4), F.A.C.
16. If the permittee determines that the groundwater concentration limits under Specific Condition 12 of this Part are being exceeded or there is statistically significant evidence of contamination at any monitoring well at the point of compliance, the permittee may demonstrate that a source other than a regulated unit caused the contamination or that the detection is an artifact caused by an error in sampling, analysis, or statistical evaluation or natural variation in the groundwater. In making a demonstration under this paragraph, the permittee must:
  - a. notify the Department in writing within seven (7) calendar days that the facility intends to make a demonstration under this paragraph;
  - b. no later than forty-five (45) calendar days after submittal to the Department of the groundwater report for that sampling event, submit a report to the Department which demonstrates that a source other than a regulated unit caused the standard to be exceeded or that the apparent noncompliance with the standards resulted from error in sampling, analysis, or evaluation.

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17. If the Department determines pursuant to Specific Condition 16 of this Part that the demonstration is not acceptable:
  - a. the permittee must sample the groundwater in all monitor wells and determine whether constituents in the list of 40 CFR Part 264 Appendix IX are present, and if so, in what concentrations.
  - b. for any Appendix IX compounds found in the analysis pursuant to Specific Condition 17.a. of this Part, the permittee may resample within one month and repeat the analysis for those contested constituents. If the results of the second analysis confirm the initial results, then these constituents will form the basis for compliance monitoring.
  - c. within sixty (60) calendar days, the permittee must submit an application for a permit modification, with appropriate fees, to establish a compliance monitoring program that meets the requirements of 40 CFR Part 264.99 and Rule 62-4.050, F.A.C.

#### **PART VI - Air Monitoring**

1. The permittee shall submit an air monitoring plan within 10 days after permit issuance. The air monitoring plan shall, at a minimum, include:
  - a. Available meteorological data,
  - b. Monitor placement siting criteria and locations,
  - c. Description of monitoring systems and equipment including calibration, audit, maintenance procedures,
  - d. Sampling and analysis procedures, and
  - e. Sampling parameters, sampling frequency and criteria for reduction of sampling frequency with Department approval.
2. The permittee shall not operate the unit until the air monitoring plan is approved by the Department.
3. The Permittee shall submit an air monitoring report to the Department within (60) calendar days of the completion of any air monitoring event required in Specific Condition 1 of this Part.
4. The permittee shall provide the Department with opportunities to observe the ambient air monitoring by providing written notification at least seven (7) days prior to each air monitoring event.

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5. If any of the parameters in the air monitoring program exceed the air reference concentrations (ARCs) for the averaging periods specified in Specific Condition 6 of this part then the Permittee shall:
- Notify the Department of these findings within seven (7) calendar days. The notification must include a list of parameters which exceeded the ARC and the respective ambient air concentrations.
  - Within fifteen (15) days of notifying the Department, replicate the conditions of the sampling period where ARC exceedances were detected and analyze the replicate sample for the subject parameters. A report including the analytical data and explanation for exceedance must be submitted to the Department within forty-five (45) days of the replicate sampling event.
  - Upon confirmation of an ARC exceedance through replicate sampling, either submit a permit modification request to the Department to revise operating practices to ensure that unit emissions do not exceed the ARC or demonstrate that the ARC has not been exceeded at the facility boundary.
6. The air reference concentrations (ARCS) for the averaging periods are as following:

Parameter	8 hr.	24 hr.	Annual	Units
Antimony	5	1.2	3.0E-01	ug./cu.m.
Arsenic	0.1	.02	2.3E-04	ug./cu.m.
Boron	100	24	*	ug./cu.m.
Barium	5	1.2	5.0E+01	ug./cu.m.
Chromium(+6)	0.5	0.1	8.3E-05	ug./cu.m.
Chromium(+3)	5	1.2	1.0E+03	ug./cu.m.
Copper	10	2.4	*	ug./cu.m.
Lead	0.5	0.1	9.0E-02	ug./cu.m.
Magnesium	100	24	*	ug./cu.m.
Manganese	50	12	5.00E-02	ug./cu.m.
Nickel	10	2.4	4.2E-03	ug./cu.m.
Titanium	100	24	*	ug./cu.m.
Zirconium	50	12	*	ug./cu.m.

\* The permit may be modified to incorporate a specific level.

**Modified:** 11/12/97

### **Part VII - Closure**

- The permittee shall close the facility as required by 40 CFR 264.111, and in accordance with the closure plan, Attachment II.K.1 of the Permit Application.
- The permittee shall maintain the facility in compliance with 40 CFR 264.601 during the required closure and post closure period.
- The permittee shall submit written notification to the Department at least forty-five (45) days prior to the date he expects to begin closure. [40 CFR 264.112(d)(1)]

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4. The permittee shall submit a complete closure Permit Application to the Department at least one hundred eighty (180) days prior to beginning closure. [62-730.260(1), FAC]
5. Within ninety (90) days after generating the final volume of the hazardous waste that requires thermal treatment, the permittee shall treat the waste in accordance with the approved closure plan, Attachment II.K.1 of the Permit Application. [40 CFR 264.113]
6. The permittee shall keep a copy of the closure plan and all revisions to the plan onsite (Attachment II.K of the Permit Application), until closure is completed, certified, and the closure certification is accepted by the Department. [40 CFR 264.112(a)(1)]
7. The permittee shall amend the closure plan in accordance with 40 CFR 264.112(c) whenever necessary.
8. The permittee shall complete all closure activities listed in attachment II.K of the Permit Application, within one hundred eighty (180) days of treating the final volume of waste in the thermal treatment unit. In the event all contaminated soils and groundwater can not be removed within that time then the permittee shall submit a Permit Application for post-closure care of the facility. [40 CFR 264.113]
9. The permittee shall decontaminate and/or dispose of all facility equipment as required by 40 CFR 264.114 and the closure plan, Attachment II.K of the Permit Application.
10. Within sixty (60) days from completion of closure, the permittee shall submit to the Department by certified mail or hand delivery, a certification signed by both the permittee and an independent professional engineer registered in the State of Florida, stating that the facility has been closed in accordance with the Permit and specifications in the closure plan. [62-730.260(6), F.A.C. and 40 CFR 264.115]

#### **Part VIII - Temporary Unit**

1. The permittee may construct a temporary unit, i.e. a temporary burn pad, in accordance with the design plans and specifications in the September 29, 1995 submittal.
2. Within thirty (30) days of completion of construction of the temporary burn pad, the permittee shall submit to the Department by certified mail or hand delivery, a certification signed by both the permittee and an independent professional engineer registered in the state of Florida, stating that the construction has been completed in accordance with the design parameters specified in the Permit Application. The certification shall include as-built drawings with the seal and signature of a professional engineer registered in the State of Florida. [Rule 62-730.220(7), FAC]
3. The permittee may begin to operate the temporary burn pad, in compliance with the Specific Conditions of this permit for the new burn pads, within twenty (20) days after submitting the as-built certification, required pursuant to Specific Condition 2 of this Part, unless the Department notifies the facility not to begin operation.
4. The permittee shall stop operating the existing burn pad within sixty (60) days of the issuance of the permit or when the facility begins operation of the temporary burn pad, whichever occurs first.

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5. The permittee shall not operate the temporary burn pad, for thermal treatment of hazardous waste, after one hundred eighty (180) days of the issuance of the permit or once the permittee begin operation of the new burn pads pursuant to the Specific Condition 3, Part I of this permit, whichever occurs first.
6. The permittee shall close the temporary burn pad, within ninety (90) days after the facility begin operation of the new burn pads pursuant to the Specific Condition 3, Part I of this permit. In the event if any soil contamination is detected then within thirty (30) days the permittee shall submit a revised closure plan to remediate all contaminated soils and groundwater. [40 CFR 264.113]
7. Within thirty (30) days from completion of closure, the permittee shall submit to the Department by certified mail or hand delivery, a certification signed by both the permittee and an independent professional engineer registered in the State of Florida, stating that the temporary burn pad has been closed in accordance with the Permit and specifications in the closure plan. [62-730.260(6), F.A.C. and 40 CFR 264.115]

#### **Part IX - General**

1. The permittee shall revise "Part I - General" of the Application for a Hazardous Waste Facility Permit (Rule 62-730.900(2), F.A.C.) within thirty (30) days of any changes in the Part I. The revised "Part I - General" must be submitted to the Department within thirty (30) days of such changes with the appropriate fees as specified in Chapter 62-4, F.A.C.
2. The permittee shall maintain compliance with 40 CFR 264 Subpart H-Financial Requirements until closure is completed and the closure certification is accepted by the Department. All submittals in response to this Specific Condition shall be submitted to:

Financial Coordinator  
Solid Waste Section  
Bureau of Solid and Hazardous Waste  
Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

In the event an estimate for closure or corrective action increases, the financial instrument must be updated accordingly. Pursuant to Rule 62-737.600, F.A.C. and associated financial instruments, facilities using a trust fund, letter of credit, financial guarantee bond, performance bond, or closure insurance must increase the amount covered by the instrument within sixty (60) days of the estimate increase. Those facilities using a financial test must cover the estimate increase in the next scheduled submittal. If the estimate increase causes the inability of facility to provide financial assurance through their currently selected mechanism, alternate financial assurance must be provided within thirty (30) days.

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3. Four (4) copies of submittals in response to this Permit, except submittals required by Specific Condition 2 of this Part, shall be submitted as follows:
  - a. Two (2) copies shall be sent to:

Hazardous Waste Supervisor  
Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590
  - b. One (1) copy shall be sent to:

Environmental Administrator  
Hazardous Waste Regulation Section  
Bureau of Solid and Hazardous Waste  
Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400
  - c. One (1) copy shall be sent to:

Chief, Waste Management Division  
US EPA - Region 4  
Atlanta Federal Center, 10th Floor  
61 Forsyth Street, S.W.  
Atlanta, Georgia 30303-3104
4. All documents submitted pursuant to the conditions of this Permit shall be accompanied by a cover letter stating the name and date of the document submitted, the number(s) of the Specific Condition(s) affected, and the Permit number and project name of the Permit involved. All documents modifying the approved Closure and/or Post-Closure Plan submitted to the Department for review shall be signed, sealed, and certified by a Professional Engineer registered in the State of Florida, in accordance with Rule 62-730.220(7), F.A.C. and as required by General Condition 16.d of this permit.
5. All submittals modifying major engineering features of the hazardous waste storage areas shall be worded, signed, and certified by a qualified Professional Engineer registered in the State of Florida in accordance with Rule 62-730.220(7), F.A.C. All submittals incorporating interpretations of geological data shall be signed and sealed by a Professional Geologist registered in the State of Florida in accordance with Section 492, F.S., and Rule 62-730.220(8), F.A.C.
6. Before transferring ownership or operation of this facility during its operating life, the permittee must notify the new owner or operator in writing of the requirements of 40 CFR Part 264 and Rule 62-730.300(2), F.A.C. [40 CFR 264.12(c)]. The permittee shall also submit an application for transfer of the Permit on DEP Form 62-1.201(1), in accordance with Rule 62-730.300, F.A.C.
7. Based upon any information or data obtained after the effective date of this permit, the Department may modify this Permit to address additional groundwater assessment including the installation of additional wells within each affected aquifer. The new wells are subject to the installation requirements of 40 CFR Part 264.97.

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8. The Department may modify, revoke, reissue, or terminate for cause, this Permit in accordance with the provisions of Rule 62-730.290, F.A.C. The filing of a request for a Permit modification, revocation, re-issuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any Permit condition. The permittee may submit any subsequent revisions to the Department for approval. These revisions shall meet the requirements of Rules 62-4.050 and 62-730.290, F.A.C., and must be accompanied by the appropriate Permit modification fees.
9. Prior to one hundred eighty (180) days before the expiration of this permit, the permittee shall submit a complete application for renewal of the Permit to the Department, unless closure has been completed, certified in accordance with Specific Condition 10, Part VII of the permit, and accepted by the Department [62-730.300(1), FAC].

#### **PART X - Compliance Monitoring Program**

1. The permittee shall comply with the requirements of 40 CFR Part 264.97.  
**Modified:** 5/15/98
2. The Waste Management Area [40 CFR Part 264.95(b)] shall be designated by an imaginary line circumscribing the miscellaneous unit, indicated in Attachment C of this permit.  
**Modified:** 5/15/98
3. The Point of Compliance [40 CFR Part 264.95(a)] shall be the south and west sides of the Waste Management Unit, as shown on Attachment C of this permit.  
**Modified:** 5/15/98
4. The Point-of-Compliance (POC) wells are PC-1, PC-2R, PC-3, PC-5 and PC-6. The background well is PC-4. If groundwater elevations indicate a change in groundwater flow direction of the surficial aquifer, the Department may require the installation of additional monitoring wells and revisions to the Groundwater Monitoring Plan.  
**Modified:** 5/15/98
5. Upon permit modification the facility shall be in compliance monitoring in accordance with 40 CFR Part 264.99.  
**Modified:** 5/15/98
6. The Compliance Period is the number of years equal to the active life of the miscellaneous unit, including any waste management activity prior to permitting, and the closure period. Compliance Monitoring begins upon permit modification [40 CFR Part 264.96]. Pursuant to 40 CFR Part 264.96(c), if the permittee is engaged in a corrective action program at the end of the Compliance Period, the Compliance Period is extended until the permittee can demonstrate that the Groundwater Protection Standard of 40 CFR Part 264.92 has not been exceeded for a period of three consecutive years.  
**Modified:** 5/15/98

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7. Upon permit modification the permittee shall perform replicate sampling on the wells in Specific Condition 4 of this Part. Sampling shall be conducted in August and February of each year for the wells in Specific Condition 4 of this Part.  
**Modified:** 5/15/98
8. The permittee shall submit to the Department groundwater monitoring reports that include information pursuant to Specific Conditions 9, 10, 12, 14 and 15 of this Part. The groundwater monitoring data from the August sampling event shall be submitted no later than the last day of October; data from the February sampling event shall be submitted no later than the last day of April. Results from any quarterly sampling required by Specific Condition 7 of this Part shall be submitted with the next semiannual report. If, for any reason, the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.  
**Modified:** 5/15/98
9. The permittee shall measure groundwater elevations every time any well is sampled [40 CFR Part 264.97(f)]. All groundwater elevations must be measured within the same 8-hour period. These data shall be used to determine the quarterly groundwater flow direction and flow rate. The permittee shall submit these data to the Department with each monitoring report.  
**Modified:** 5/15/98
10. Total depths of all wells must be determined by physical measurement in August of each year to determine if siltation has occurred in any well. If infilling or siltation of any well has occurred, the discovery and any redevelopment shall be reported with the next groundwater report (Specific Condition 8 of this Part).  
**Modified:** 5/15/98
11. All groundwater sampling shall be conducted in accordance with the Quality Assurance Project Plan approved on December 15, 1997. The permittee shall revise the Quality Assurance Project Plan in accordance with Chapter 62-160, F.A.C., whenever there is a change in sampling and/or analytical procedures, including personnel or laboratory. The revised plan or revisions must be submitted to the Department for approval within thirty (30) days of such changes.  
**Modified:** 5/15/98

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12. The permittee shall sample all wells specified in Specific Conditions 4 and 23 of this Part for the following parameters:

Antimony	Arsenic	Barium	Boron
Cadium	Chromium	Copper	Lead
Magnesium	Manganese	Nickel	Potassium
Selenium	Strontium	Titanium	Zinc
Zirconium			
Chloride		Sulfide	pH
Fluoride		Specific Conductance	
Total Nitrogen (as Nitrate + Nitrite)		Turbidity	
Diphenylamine		PETN	Styrene
Hydrocarbons (as Diesel Fuel)		RDX	Tetrafluoroethene
1-Methyl aminoanthraquinone		HMX	Tetrazine

The permittee shall sample all wells in Specific Condition 4 of this Part for the following parameters if the soil sampling required by Specific Conditions IV.1 and IV.2, Part IV of this permit shows the presence of the following parameters:

Acetone	Isopropanol
2,4-Dinitrotoluene	Nitrobenzene
Nitrocellulose	Nitroglycerin

The permittee shall sample the wells in Specific Condition 21 of this Part for nitrates and RDX. This sampling shall be conducted for two (2) quarters after permit modification, then on the schedule prescribed in Specific Condition 7 of this part.

**Modified:** 5/15/98; 1/14/99

13. The Groundwater Protection Standard (GWPS) for these parameters shall be as follows:

<b>Parameter</b>	<b>MCL(mg/l)</b>
Antimony	0.006
Arsenic	0.05
Barium	2
Boron	0.63
Cadmium	0.005
Chromium	0.1
Copper	1.0
Lead	0.015
Magnesium	17.5
Manganese	0.05
Nickel	0.1

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Parameter	MCL(mg/l)
Potassium	125
Selenium	0.05
Strontium	4.2
Titanium	0.048
Zinc	5
Zirconium	0.175
Acetone	0.7
2,4-Dinitrotoluene	0.0002
Diphenylamine	0.175
HMX	1.8
Hydrocarbons (as Diesel Fuel)	3.2
Isopropanol	4.690
1-Methyl aminoanthraquinone	0.010
Nitrobenzene	0.004
Nitrocellulose	0.1
Nitroglycerin	0.017
PETN	11.9
RDX	0.001
Styrene	0.1
Tetrafluoroethene*	0.043
Tetrazine	0.091
Total Nitrogen (as Nitrate + Nitrite)	10
Chloride	250
Fluoride	2
Sulfide	0.1

mg/l = milligrams per liter

\* = No analytical method is currently available. When an analytical method is available and accepted by the Department, the permittee shall modify the Quality Assurance Project Plan for this parameter.

**Modified:** 5/15/98; 1/14/99

14. The permittee shall utilize the statistical method outlined on section II.M.5 (dated April 4, 1997) of the Permit Application to compare the background well with downgradient POC wells to determine significant evidence of contamination for any constituents listed in Specific Condition 12 of this Part in accordance with 40 CFR Part 264.99.

**Modified:** 5/15/98

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15. The permittee shall determine in August of each calendar year the concentration of each constituent from the 40 CFR Part 264 Appendix IX list, less pesticides, herbicides, dioxins, PCBs and furans. This sampling shall be conducted at the point-of-compliance well or wells most representative of the groundwater quality, as approved by the Department based on the semiannual groundwater monitoring conducted pursuant to Specific Condition 8 of this Part [40 CFR Part 264.99(g)].  
**Modified:** 5/15/98
16. Pursuant to Specific Condition 15, if the permittee finds 40 CFR Part 264 Appendix IX constituents (less pesticides, herbicides, dioxins, PCBs and furans) in the groundwater that are not identified in Specific Condition 12 of this Part, the permittee may resample within one month of receipt of analytical data, and repeat the Appendix IX analysis for those contested constituents. If the second analysis confirms the presence of new constituents, the permittee must report the concentration of these additional constituents to the Department within seven (7) calendar days and add them to the monitoring list. If the permittee chooses not to resample, then the permittee must report the concentrations of these additional constituents to the Department within seven (7) calendar days after completion of the initial analysis and add them to the monitoring list. [40 CFR Part 264.99(g)]  
**Modified:** 5/15/98
17. The permittee may request that the Department establish alternate concentration limits. The Groundwater Protection Standard for these additional constituents shall be the respective practical quantitation limit (PQL) unless the Department establishes such alternate concentration limits or a maximum concentration level is specified in Rule 62-550.310 and .320, F.A.C. or 40 CFR Part 141.  
**Modified:** 5/15/98
18. The permittee shall provide the Department with opportunities to observe groundwater sampling and split samples by providing notification of at least seven (7) calendar days prior to each sampling event. Such notification may be in the form of a telephone call or electronic mail.  
**Modified:** 5/15/98
19. The permittee shall notify the Department in writing of any damage requiring repair (not maintenance) to the groundwater monitor wells and provide a schedule for repair within seven (7) calendar days. A description of repairs shall be provided within seven (7) calendar days after the damage has been corrected.  
**Modified:** 5/15/98
20. Abandonment of monitor wells shall be performed in accordance with Rule 62-532.500(4), F.A.C.  
**Modified:** 5/15/98

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21. Within thirty (30) days of permit modification, the permittee shall install two(2) additional shallow wells, downgradient of monitor well PC-2R at locations to be approved by the Department.  
**Modified:** 5/15/98
22. Within fifteen (15) days of installation of any necessary additional monitoring wells necessary to comply with Specific Conditions 21 and 23 of this Part, the permittee must submit to the Department a well installation report that includes, at a minimum, the following information:
  - a. A **Well Construction Summary Report** [Form 62-730.900(2)(b)] for each well;
  - b. A surveyed location map of all new and existing wells with correct orientation and scale;
  - c. A description of protective devices for each well;
  - d. Well development procedures and duration of well development;
  - e. Disposal of boring soils, drilling muds and fluids, and purge water;
  - f. Detailed lithologic logs including soils classification used, the geologist or geotechnical person responsible for compiling the lithologic logs, and sampling devices and intervals.**Modified:** 5/15/98
23. If the wells required by Specific Condition 21 of this Part show contamination above the GWPS for constituents of concern, the permittee shall install and sample sufficient numbers of wells to completely delineate any plume that may be present. Each additional well shall be sampled for each constituent that is detected above the GWPS (Specific Condition 13 of this Part) for two quarters, then semiannually in February and August.  
**Modified:** 5/15/98
24. If the statistical analysis required by Specific Condition 14 of this Part demonstrates no statistically-significant evidence of contamination above the GWPS at all wells, the permittee shall comply with Part V.  
**Modified:** 5/15/98
25. If the statistical analysis required by Specific Condition 14 of this Part demonstrates statistically-significant evidence of contamination above the GWPS at any well, the permittee shall submit a permit modification, along with the appropriate fee, to establish a Corrective Action Plan. The permit modification shall be submitted to the Department within sixty (60) days of the demonstration.  
**Modified:** 5/15/98

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### **Part XI – Corrective Action**

1. Within 30 days of the issuance of the permit, the permittee shall implement the Corrective Action Plan (CAP), dated August 1998.  
**Modified:** 1/14/99
2. After implementation of the approved the CAP, the permittee shall submit to the Department a report on the effectiveness of the Corrective Action System (CAS) along with the next quarterly Groundwater Monitoring Report. The report shall include:
  - a. a narrative summary on the effectiveness of the CAS.
  - b. any minor revisions or adjustments to the approved CAP.
  - c. volume of groundwater pumped.
  - d. all analytical sampling results for the groundwater effluent.

The Department shall review this information to assess the effectiveness of the CAS. The Department may modify this permit to include changes in the CAS and additional monitoring wells necessary to monitor the effectiveness of the CAS.

**Modified:** 1/14/99

3. The permittee shall submit a written request to the Department for a permit modification, to make necessary changes to the approved CAP, within thirty (30) days of the Department notifying the permittee that the approved CAS will not meet the GWPS listed in Specific Condition 13, Part X of the Permit.  
**Modified:** 1/14/99
4. The permittee may terminate the CAS, if the GWPS listed in Specific Condition 13, Part X of the permit is met for all constituents following implementation of the approved CAP, upon receiving the written authorization from the Department.  
**Modified:** 1/14/99

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5. The extracted groundwater shall be stored in containers and sent to a municipal wastewater treatment system.

**Modified:** 1/14/99

Executed in Jacksonville, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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Michael J. Fitzsimmons  
Waste Program Administrator  
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

The undersigned duly designated Clerk hereby certifies that this Permit was mailed before the close of business on \_\_\_\_\_.