



APA-2  
11/96

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
LAND DIVISION

**NOTICE OF INTENDED ACTION**

AGENCY NAME: DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

<u>RULE NO. &amp; TITLE:</u>	335-14-6-.02	<u>General Facility Standards</u> (Amend)
	335-14-6-.05	<u>Manifest System, Recordkeeping and Reporting</u> (Amend)
	335-14-6-.07	<u>Closure and Post-Closure</u> (Amend)
	335-14-6-.08	<u>Financial Requirements</u> (Amend)
	335-14-6-.11	<u>Surface Impoundments</u> (Amend)
	335-14-6-.14	<u>Landfills</u> (Amend)
	335-14-6-.15	<u>Incinerators</u> (Amend)
	335-14-6-.16	<u>Thermal Treatment</u> (Amend)
	335-14-6-.23	<u>Drip Pads</u> (Amend)
	335-14-6-.31	<u>Hazardous Waste Munitions and Explosive Storage</u> (Amend)
	335-14-6-Appendix I	<u>Recordkeeping Instructions</u> (Amend)

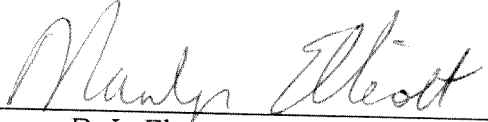
INTENDED ACTION: Revise Division 14 of the ADEM Administrative Code.

SUBSTANCE OR PROPOSED ACTION: Revise portions of Division 14 Regulations to incorporate changes to ensure consistency with State and Federal Statutes; to adopt certain State specific requirements; and to provide clarification of State requirements for the management of hazardous waste.

TIME, PLACE, MANNER OF PRESENTING VIEWS: Comments may be submitted in writing or orally at a public hearing to be held Monday, December 5, 2011 at 10:00 a.m. in the Main Hearing Room at the ADEM Central Office located at 1400 Coliseum Boulevard, Montgomery, Alabama 36110.

FINAL DATE FOR COMMENT AND COMPLETION OF NOTICE: Monday, December 5, 2011 at 5:00 p.m.

CONTACT PERSON AT AGENCY: James L. Bryant, Chief of the Environmental Services Branch, ADEM Land Division (334/271-7771)

  
\_\_\_\_\_  
Lance R. LeFleur  
Director

### **335-14-6-.02 General Facility Standards.**

(1) Applicability. The requirements of 335-14-6-.02 apply to owners and operators of all hazardous waste facilities except as 335-14-6-.01(1) provides otherwise.

(2) Identification number. Every facility owner or operator must obtain an EPA identification number by submitting a completed Notification of Regulated Waste Activity, ADEM Form 8700-12, to the Department, along with the appropriate fees specified in Chapter 335-1-6 of the ADEM Administrative Code.

(3) Required notices.

(a) 1. The owner or operator of a facility that has arranged to receive hazardous waste from a foreign source must notify the Department in writing at least four weeks in advance of the date the waste is expected to arrive at the facility. Notice of subsequent shipments of the same waste from the same foreign source is not required.

2. The owner or operator of a recovery facility that has arranged to receive hazardous waste subject to rule 335-14-3-.09 must provide a copy of the movement document bearing all required signatures to the foreign exporter; to the Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division (2254A), Environmental Protection Agency, 1200 Pennsylvania Avenue, NW., Washington, DC 20460; to the Alabama Department of Environmental Management, Land Division, P. O. Box 301463, Montgomery, AL 36130; and to the competent authorities of all other countries concerned within three (3) working days of receipt of the shipment. The original of the signed movement document must be maintained at the facility for at least three (3) years. In addition, such owner or operator shall, as soon as possible, but no later than thirty (30) days after the completion of recovery and no later than one (1) calendar year following the receipt of the hazardous waste, send a certificate of recovery to the foreign exporter, to the competent authority of the country of export, to the Department, and to EPA's Office of Enforcement and Compliance Assurance at the above address by mail, e-mail without digital signature followed by mail, or fax followed by mail.

(b) Before transferring ownership or operation of a facility during its operating life, or of a disposal facility during the post-closure care period, the owner or operator must notify the new owner or operator in writing of the requirements of 335-14-6 and 335-14-8. However, an owner's or operator's failure to notify the new owner or operator as required by 335-14-6-.02(3)(b) in no way relieves the new owner or operator of his obligation to comply with all applicable requirements of Division 335-14.

(c) 1. A facility owner or operator must submit a correct and complete ADEM Form 8700-12 (including all appropriate attachment pages and

fees) reflecting current waste activities to the Department annually according to the following schedule. The Department must receive the ADEM Form 8700-12 (including all appropriate attachment pages and fees) no later than the 15<sup>th</sup> day of the specified month in the specified month schedule located at rule 335-14-1-.02(1)(a).

If your installation is located in the county of ...	Submit ADEM Form 8700-12 by the 15 <sup>th</sup> of ...
Colbert, Fayette, Franklin, Greene, Hale, Lamar, Lauderdale, Lawrence, Limestone, Marion, Morgan, Pickens, Sumter, Tuscaloosa, Walker, Winston	February
Blount, Cherokee, Cullman, DeKalb, Etowah, Jackson, Madison, Marshall, St. Clair	April
Jefferson	June
Calhoun, Chambers, Clay, Cleburne, Coosa, Elmore, Lee, Macon, Montgomery, Randolph, Shelby, Talladega, Tallapoosa	August
Autauga, Baldwin, Barbour, Bibb, Bullock, Butler, Chilton, Choctaw, Clarke, Coffee, Conecuh, Covington, Crenshaw, Dale, Dallas, Escambia, Geneva, Henry, Houston, Lowndes, Marengo, Monroe, Perry, Pike, Russell, Washington, Wilcox	October
Mobile	December

2. In order to eliminate the need for multiple Notifications during the reporting year, facilities which anticipate periodically switching between generator classifications should notify for the higher classification (i.e., if a facility typically operates as small quantity generator, but anticipates being a large quantity generator for any period during the year, they should notify as a large quantity generator); and

3. The ADEM Form 8700-12, Notification of Regulated Waste Activity, is not complete without payment of all the appropriate fees specified in Chapter 335-1-6 of the ADEM Administrative Code.

(4) General waste analysis.

(a) Before an owner or operator treats, stores, or disposes of any hazardous waste, or non-hazardous wastes if applicable under 335-14-6-.07(4)(d), he must obtain a detailed chemical and physical analysis of

a representative sample of the wastes. At a minimum, this analysis must contain all the information which must be known to treat, store, or dispose of the waste in accordance with the requirements of 335-14-6, 335-14-7, and 335-14-9.

1. The analysis may include data developed under 335-14-2, and existing published or documented data on the hazardous waste or on waste generated from similar processes.

2. The analysis must be repeated as necessary to ensure that it is accurate and up to date. At a minimum, the analysis must be repeated:

(i) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous wastes or non-hazardous waste, if applicable, under 335-14-6-.07(4)(d) has changed; and

(ii) For off-site facilities, when the results of the inspection or analysis required in 335-14-6-.02(4)(a) indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.

3. The owner or operator of an off-site facility must inspect and analyze each hazardous waste movement received at the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.

(b) The owner or operator must develop and follow a written waste analysis plan which describes the procedures which he will carry out to comply with 335-14-6-.02(4)(a). He must keep this plan at the facility. At a minimum, the plan must specify:

1. The parameters for which each hazardous waste, or non-hazardous waste if applicable under 335-14-6-.07(4)(d), will be analyzed and the rationale for the selection of these parameters [i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with 335-14-6-.02(4)(a)];

2. The test methods which will be used to test for these parameters;

3. The sampling method which will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:

(i) One of the sampling methods described in 335-14-2-Appendix I;  
or

(ii) An equivalent sampling method approved by the Department.

4. The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date.

5. For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply; and

6. Where applicable, the methods that will be used to meet the additional waste analysis requirements for specific waste management methods as specified in 335-14-6-.10(11), 335-14-6-.11(6), 335-14-6-.12(3), 335-14-6-.13(4), 335-14-6-.14(15), 335-14-6-.15(2), 335-14-6-.16(6), 335-14-6-.17(3), 335-14-6-.27(5), 335-14-6-.28(14), 335-14-6-.29(4), 335-14-7-.08(4), and 335-14-9-.01(7).

7. For surface impoundments exempted from land disposal restrictions under 335-14-9-.01(4), the procedures and schedule for:

(i) The sampling of impoundment contents;

(ii) The analysis of test data; and

(iii) The annual removal of residues which are not delisted under 335-14-1-.03(2) or which exhibit a characteristic of hazardous waste and either:

(I) Do not meet applicable treatment standards of rule 335-14-9-.04;

or

(II) Where no treatment standards have been established;

I. Such residues are prohibited from land disposal under 335-14-9-.03(13) or RCRA Section 3004(d); or

II. Such residues are prohibited from land disposal under 335-14-9-.03(14).

8. For owners and operators seeking an exemption to the air emission standards of 335-14-6-.29 in accordance with 335-14-6-.29(3):

(i) The procedures and schedules for waste sampling and analysis, and the analysis of test data to verify the exemption.

(ii) Each generator's notice and certification of the volatile organic concentration in the waste if the waste is received from off site.

(c) For off-site facilities, the waste analysis plan required in 335-14-6-.02(4)(b) must also specify the procedures which will be used to inspect and analyze each movement of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe and justify:

1. The procedures which will be used to determine the identity of each movement of waste managed at the facility and shall include collection of representative samples which will be obtained from each waste stream from each shipment of waste received from each generator and analyzed in accordance with the requirements of 335-14-6-.02(4) to accurately identify each movement of hazardous waste received at the facility;

2. The sampling method and number of samples which will be used to obtain a representative sample of the waste stream to be identified; and

3. The method(s) which will be used to analyze the sample(s).

4. The procedures that the owner or operator of an off-site landfill receiving containerized hazardous waste will use to determine whether a hazardous waste generator or treater has added a biodegradable sorbent to the waste in the container.

(d) For off-site facilities, samples of waste(s) from each generator collected in accordance with the requirements of 335-14-6-.02(4)(c) may be composited prior to analysis provided that:

1. No more than ten individual samples are composited into any one sample for analysis; and

2. Only compatible wastes from the same generator and waste stream are composited into any one sample which is to be analyzed.

3. In the event that the analytical results of sample(s) obtained in compliance with the requirements of 335-14-6-.02(4) indicate that the hazardous waste received at the facility does not match the waste described on the accompanying manifest or shipping paper, the facility owner or operator shall:

(i) Collect and analyze a representative sample from each container;

(ii) Identify the container(s) holding the waste(s) which cause the discrepancy to occur; and

(iii) Comply with the requirements of 335-14-6-.05(3)(b).

(e) Upon receipt of a satisfactory demonstration based on the types of waste received and treated, stored or disposed of at the facility, processes utilized to manage the waste, and any other reasonable factors, the Department may grant a partial or full exemption from the requirements for the sampling and analysis of each shipment of waste as required by 335-14-6-.02(4)(c).

**[Note:** The term "movement" as used in 335-14-6-.02(4) refers to individual truckloads, batches, shipments, etc., of wastes received at the facility. It is not intended to impose requirements for additional waste analyses for internal movements of wastes within the facility unless otherwise required by Division 335-14.]

(5) Security.

(a) The owner or operator must prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of his facility, unless:

1. Physical contact with the waste, structures, or equipment with the active portion of the facility will not injure unknowing or unauthorized persons or livestock which may enter the active portion of a facility, and

2. Disturbance of the waste or equipment, by the unknowing or unauthorized entry of persons or livestock onto the active portion of a facility, will not cause a violation of the requirements of 335-14-6.

(b) Unless exempt under 335-14-6-.02(5)(a)1. and (a)2., a facility must have:

1. A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the active portion of the facility; or

2. (i) An artificial or natural barrier (e.g., a fence in good repair or a fence combined with a cliff), which completely surrounds the active portion of the facility; and

(ii) A means to control entry, at all times, through the gates or other entrances to the active portion of the facility (e.g., an attendant, television monitors, locked entrance, or controlled roadway access to the facility).

(c) Unless exempt under 335-14-6-.02(5)(a)1. and (a)2., a sign with the legend, "Danger--Unauthorized Personnel Keep Out", must be posted at each entrance to the active portion of a facility, and at other locations, in sufficient numbers to be seen from any approach to this active portion. The legend must be written in English and in any other language predominant in the workplace and the area surrounding the facility, and must be legible from a distance of at least 25 feet. Existing signs with a legend other than "Danger--Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion, and that entry onto the active portion can be dangerous.

(6) General inspection requirements.

(a) The owner or operator must inspect his facility for malfunctions and deterioration, operator errors, and discharges which may be causing or may lead to:

1. Release of hazardous waste constituents to the environment; or

2. A threat to human health. The owner or operator must conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment.

(b) 1. The owner or operator must develop and follow a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, or responding to environmental or human health hazards.



2. He must keep this schedule at the facility.
3. The schedule must identify the types of problems (e.g., malfunctions or deterioration) which are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, eroding dike, etc.).
4. The frequency of inspection may vary for the items on the schedule. However, the frequency should be based on the rate of deterioration of the equipment and the probability of an environmental or human health incident if the deterioration, malfunction, or any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use. At a minimum, the inspection schedule must include the items and frequencies called for in 335-14-6-.09(5), 335-14-6-.10(4), 335-14-6-.10(6), 335-14-6-.11(7), 335-14-6-.12(11), 335-14-6-.13(9), 335-14-6-.14(5), 335-14-6-.15(8), 335-14-6-.16(8), 335-14-6-.17(4), 335-14-6-.27(4), 335-14-6-.28(3), 335-14-6-.28(4), 335-14-6-.28(9), and 335-14-6-.29(5) through (11), where applicable.

(c) The owner or operator must remedy any deterioration or malfunction of equipment or structures which the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.

(d) The owner or operator must record inspections in an inspection log or summary. He must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

(7) Personnel training.

(a) Facility personnel whose duties have a direct effect on hazardous waste management and/or hazardous waste accumulation, whether by direct contact with the hazardous waste or through hazardous waste management activities, must receive training.

1. Facility personnel must successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of 335-14-6. The owner or operator must ensure that this program includes all the elements described in the document required under 335-14-6-.02(7)(d)3.

2. This program must be directed by a person trained in hazardous waste management procedures, and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed.

3. At a minimum, the training program must be designed to ensure that facility personnel are able to respond effectively to emergencies by

familiarizing them with emergency procedures, emergency equipment, and emergency systems, including where applicable:

- (i) Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- (ii) Key parameters for automatic waste feed cut-off systems;
- (iii) Communications or alarm systems;
- (iv) Response to fires or explosions;
- (v) Response to groundwater contamination incidents; and
- (vi) Shutdown of operations.

4. For facility employees that receive emergency response training pursuant to Occupational Safety and Health Administration (OSHA) regulations 29 CFR 1910.120(p)(8) and 1910.120(q), the facility is not required to provide separate emergency response training pursuant 335-14-6-.02(7), provided that the overall facility training meets all the requirements of 335-14-6-.02(7).

(b) Facility personnel must successfully complete the program required in 335-14-6-.02(7)(a) within six months after the effective date of these regulations or six months after the date of their employment or assignment to a facility, or to a new position at a facility, whichever is later. Employees hired after the effective date of these regulations must not work in unsupervised positions until they have completed the training requirements of 335-14-6-.02(7)(a).

(c) Facility personnel must take part in an annual review of the initial training required in 335-14-6-.02(7)(a).

(d) The owner or operator must maintain the following documents and records at the facility:

1. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;

2. A written job description for each position listed under 335-14-6-.02(7)(d)1. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of facility personnel assigned to each position;

3. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under 335-14-6-.02(7)(d)1.;

4. Records that document that the training or job experience required under 335-14-6-.02(7)(a), (b), and (c) have been given to, and completed by, facility personnel.

(e) Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

(8) General requirements for ignitable, reactive, or incompatible wastes.

(a) The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction including but not limited to: open flames, smoking, cutting, and welding, hot surfaces, frictional heat, sparks (static, electrical or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the owner or operator must confine smoking and open flame to specially designated locations. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste.

(b) Where specifically required by other paragraphs of 335-14-6, the treatment, storage, or disposal of ignitable or reactive waste, and the mixture or commingling of incompatible wastes, or incompatible wastes and materials, must be conducted so that it does not:

1. Generate extreme heat or pressure, fire or explosion, or violent reaction;
2. Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health;
3. Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
4. Damage the structural integrity of the device or facility containing the waste; or
5. Through other like means threaten human health or the environment.

(9) Location standards. The placement of any hazardous waste in a salt dome, salt bed formation, underground mine, or cave is prohibited.

(10) Construction quality assurance program.

(a) CQA program.

1. A construction quality assurance (CQA) program is required for all surface impoundment, waste pile and landfill units that are required to comply with 335-14-6-.11(2)(a), 335-14-6-.12(5), and 335-14-6-.14(2)(a). The program must ensure that the constructed unit meets or exceeds all design criteria and specifications in the permit. The program must be developed and implemented under the direction of a CQA officer who is a registered professional engineer.

2. The CQA program must address the following physical components, where applicable:

- (i) Foundations;
- (ii) Dikes;
- (iii) Low-permeability soil liners;
- (iv) Geomembranes (flexible membrane liners);
- (v) Leachate collection and removal systems and leak detection systems; and
- (vi) Final cover systems.

(b) Written CQA plan. Before construction begins on a unit subject to the CQA program under 335-14-6-.02(10)(a), the owner or operator must develop and implement a written CQA plan. The plan must identify steps that will be used to monitor and document the quality of materials and the condition and manner of their installation. The CQA plan must include:

1. Identification of applicable units and a description of how they will be constructed.

2. Identification of key personnel in the development and implementation of the CQA plan, and CQA officer qualifications.

3. A description of inspection and sampling activities for all unit components identified in 335-14-6-.02(10)(a)2., including observations and tests that will be used before, during, and after construction to ensure that the construction materials and the installed unit components meet the design specifications. The description must cover: sampling size and locations; frequency of testing; data evaluation procedures; acceptance and rejection criteria for construction materials; plans for implementing corrective measures; and data or other information to be recorded and retained in the operating record under 335-14-6-.05(4).

(c) Contents of program.

1. The CQA program must include observations, inspections, tests, and measurements sufficient to ensure:

(i) Structural stability and integrity of all components of the unit identified in 335-14-6-.02(10)(a)2.;

(ii) Proper construction of all components of the liners, leachate collection and removal system, leak detection system, and final cover system, according to permit specifications and good engineering practices, and proper installation of all components (e.g., pipes) according to design specifications;

(iii) Conformity of all materials used with design and other material specifications under 335-14-5-.11(2), 335-14-5-.12(2), and 335-14-5-.14(2).

2. The CQA program shall include test fills for compacted soil liners, using the same compaction methods as in the full-scale unit, to ensure that the liners are constructed to meet the hydraulic conductivity requirements of 335-14-5-.11(2)(c)1., 335-14-5-.12(2)(c)1., and 335-14-5-.14(2)(b)1. in the field. Compliance with the hydraulic conductivity requirements must be verified by using in-situ testing on the constructed test fill. The test fill requirement is waived where data are sufficient to show that a constructed soil liner meets the hydraulic conductivity requirements of 335-14-5-.11(2)(c)1., 335-14-5-.12(2)(c)1., and 335-14-5-.14(2)(b)1. in the field.

(d) Certification. The owner or operator of units subject to 335-14-6-.02(10) must submit to the Director by certified mail or hand delivery, at least 30 days prior to receiving waste, a certification signed by the CQA officer that the approved CQA plan has been successfully carried out and that the unit meets the requirements of 335-14-6-.11(2)(a), 335-14-6-.12(5), or 335-14-6-.14(2)(a). The owner or operator may receive waste in the unit after 30 days from the Director's receipt of the CQA certification unless the Director determines in writing that the construction is not acceptable, or extends the review period for a maximum of 30 more days, or seeks additional information from the owner or operator during this period. Documentation supporting the CQA officer's certification must be furnished to the Director upon request.

**Author:** Stephen C. Maurer; Steven O. Jenkins; Amy P. Zachry; Michael B. Champion; Kelley Lockhart; Bradley N. Curvin; Theresa A. Maines; Heather M. Jones; Jonah Harris.

**Statutory Authority:** Code of Alabama 1975, §§ 22-30-11 and 22-30-16.

**History:** November 19, 1980.

**Amended:** April 9, 1986; September 29, 1986; February 15, 1988; August 24, 1989; December 6, 1990; January 25, 1992; January 1, 1993; January 5, 1995; March 28, 1997; March 27, 1998; April 2, 1999; April 13, 2001; March 15, 2002; March 31, 2005; April 4, 2006; April 3, 2007; May 27, 2008; March 31, 2009; March 31, 2011; XXXXXXX.