

**U.S. Army Garrison - Redstone
Huntsville, Madison County, Alabama
EPA I.D. Number AL 7 210 020 742**

FACT SHEET

A draft Alabama Hazardous Wastes Management and Minimization Act (AHWMMA) permit modification has been prepared for the Redstone Arsenal (RSA) facility. This hazardous waste facility is located in Huntsville, Madison County, Alabama. This fact sheet has been prepared to briefly advise the public of the principal permitting, legal and policy issues of the draft permit.

I. PERMIT PROCESS

The purpose of the permitting process is to allow the State and the public to evaluate RSA's ability to comply with the hazardous waste management requirements of the AHWMMA, as amended. RSA must comply with hazardous waste management conditions set forth in the permit during the effective period of the permit, which is ten (10) years from the last permit renewal (July 19, 2021).

II. PROCEDURES FOR REACHING A FINAL DECISION

The Alabama Department of Environmental Management (ADEM or Department) is proposing to issue a permit modification to incorporate the investigations and corrective measures approved since the last permit modification (August 08, 2022).

ADEM Admin. Code r. 335-14-8-.08(6)(b)1. requires that the public be given a 45-day comment period for each draft permit. The comment period will begin on March 06, 2024, which is the date of publication of the public notice in a major local newspaper of general circulation, and will end on April 23, 2024. The public notice will also be broadcast over local radio station(s).

Any person interested in commenting on the application or draft permit modification must do so within the 45-day comment period discussed above.

All persons wishing to comment on any of the permit conditions or the permit modification application should submit their comments in writing to the Alabama Department of Environmental Management, Permits and Services Division, 1400 Coliseum Blvd. (zip 36110-2059), P.O. Box 301463 (zip 36130-1463) Montgomery, Alabama, ATTENTION: Mr. Russell A. Kelly.

ADEM will consider all written comments received during the comment period while making a permit decision for this facility. When the Department makes its final permit decision, notice will be given to the applicant and each person who has submitted written comments or requested notice of the final permit decision.

III. FACILITY DESCRIPTION

RSA is a contiguous U. S. Army installation operated by the U. S. Army Aviation and Missile Command. RSA is located in Madison County, Alabama, at latitude N34° 37' and longitude W86° 39'. RSA is bounded on the north by Interstate 565, on the east and northeast by the City of Huntsville, on the west and northwest by the City of Madison, and on the south by the Tennessee River. RSA is approximately 6 miles wide in an east to west direction and 10 miles long in a north to south direction. The installation occupies approximately 57.4 square miles or 37,910 acres.

RSA operates a hazardous waste facility that includes storage, the operation of Subpart X [Open Burning and Open Detonation (OB/OD) Units] treatment facilities, and the implementation of investigation and corrective action for solid waste management units (SWMUs) and areas of concern (AOCs).

The hazardous waste storage area consists of 33 container storage igloos. The maximum storage capacity of each permitted hazardous waste storage igloo is 240 fifty-five gallon containers and the maximum storage capacity of all 33 units is 7920 fifty-five gallon drums. The Defense Logistics Agency (DLA) Disposition Services – Huntsville uses two of the igloos and is responsible for weekly inspections and day to day operations in accordance with regulatory requirements. The remaining storage units are managed by the Environmental Management Division (EMD) of U.S. Army Garrison – Redstone.

The OB/OD area is used to burn and detonate hazardous energetic waste having the characteristics of reactivity (D003) and explosiveness. The open burning area consists of five 9 by 20 feet metal burn pans. The pans are elevated on support steel and placed on top of concrete pads. The open detonation takes place inside the designated OD area where each detonation is completed in a newly excavated pit. The permit sets forth the requirements for the OB and OD units to be maintained in compliance with federal Subpart X regulations that were promulgated in 1987.

Explosive destruction system (EDS) units are used to treat recovered munitions or other items that contain chemical agent or industrial chemical fills that may be recovered during SWMU remediation activities. These items may or may not have an explosive component. The EDS units are comprised primarily of containment vessels. Items are loaded into the containment vessel, shape charges are used to access the chemical fill and detonate the munition burster explosives if present, and the exposed chemical fill is treated with reagent. The EDS units will be located within the 8200 block of igloos at the southern end of RSA.

The facility also includes current and former SWMUs and AOCs identified by Resource Conservation and Recovery Act (RCRA) Facility Assessments (RFAs) in 1988, 2008, and 2021. This permit sets forth SWMU corrective action requirements and associated activities that must be conducted by RSA.

IV. SUMMARY OF PROPOSED MODIFICATIONS

This proposed permit modification incorporates final corrective measures implementation plans (CMIPs) for the following SWMUs: RSA-014S, RSA-122, RSA-183, RSA-271, and RSA-306. The corrective measures for surface media have been completed for SWMUs RSA-255 and RSA-140; therefore, no further action is necessary at this time for RSA-255, and RSA-140 groundwater shall be addressed as part of the corrective measures for RSA-219. Also, investigations for SWMUs RSA-028, RSA-238, RSA-291, RSA-304, RSA-319, RSA-320 and

RSA-321 have been completed; corrective measures will be required. Newly designated SWMU RSA-071-R-01 consists of 244.72 acres that were previously assigned to SWMU RSA-071 and will require an investigation. In addition, SWMUs RSA-271 and RSA-306 have been added to RSA's Corrective Action Monitoring Program. Monitoring well RS814 has been replaced by monitoring well RS3054 as a test location for SWMU RSA-083 in the Corrective Action Monitoring Program. Furthermore, the groundwater monitoring requirements for SWMUs RSA-054 and RSA-055 have been modified to sample on an annual basis, and the groundwater requirements for SWMU RSA-269 have been modified to sample on a semiannual basis. Permit application tables and maps were updated to reflect the changing status of the aforementioned SWMUs and incorporate SWMU RSA-071-R-01. Lastly, the proposed modification includes some minor administrative changes.

V. CHANGES TO THE EXISTING PERMIT

The specific changes to the permit are explained below.

Location in Permit	Reason
Cover Page	Added Modification #2: XXXX XX, XXXX – Major
Introduction	Added Permit Modification #2
	Updated Army Combat Capabilities and Development Command Aviation and Missile Center acronym to DEVCOM AvMC
	Added dates – August 3, 2023; October 17, 2023; and December 4, 2023 for amended permit application submissions
	Added date – XXXX XX, XXXX for permit modification
	Updated the number of pages for Part VII and Part VIII in Table of Contents
Part VI	Formatted tables
	Added RSA-071-R-01 to Table VI.1 Added RSA-071-R-01 to Table VI.2 Removed RSA-028, RSA-238, RSA-291, RSA-304, RSA-319, RSA-320, and RSA-321 from Table VI.2 Added RSA-255 to Table VI.3
Part VI (continued)	Added RSA-028, RSA-238, RSA-291, RSA-304, RSA-319, RSA-320, and RSA-321 to Table VI.6 Amended RSA-014, RSA-122, and RSA-183 within Table VI.6 to remove surface media from affected media Removed RSA-271 and RSA-306 from Table VI.6

Part VII	<p>Updated page numbers</p> <p>Formatted text and tables</p> <p>Added RSA-271 and RSA-306 to the Section VII.E</p> <p>Modified the groundwater sampling frequency for RSA-054/RSA-055 from semiannual to annual</p> <p>Modified the groundwater sampling frequency for RSA-269 from quarterly to semiannual</p> <p>Added test locations RS2340, RS2341, RS2342, RS2343, RS2344, RS2346, RS2707, RS2708, RS2709, RS2805, RS2806, RS2807, RS3003, RS3004, and RS3054 to Table VII.1</p> <p>Removed monitoring well RS814 from Table VII.1</p> <p>Added RSA-271 and RSA-306 to Table VII.2 and Table VII.3</p>
Part VIII	<p>Updated page numbers</p> <p>Formatted text and tables</p> <p>Added area specific conditions for RSA-014, RSA-122, RSA-183, RSA-271, and RSA-306</p> <p>Removed area specific conditions for RSA-255</p> <p>Amended area specific conditions for RSA-140</p> <p>Added RSA-014, RSA-122, RSA-183, RSA-271, and RSA-306 to Table VIII.1</p> <p>Removed RSA-140 and RSA-255 from Table VIII.1</p>

Location in Permit Application	Reason
Part A Permit Application, USEPA Form 8700-23	Updated to USEPA's most current form revision and updated Redstone Arsenal's contact information
Section E	<p>Updated the corrective action monitoring program</p> <p>Updated sampling frequency for RSA-054/RSA-055 and RSA-269</p> <p>Updated text to reflect the current status of the facility's groundwater monitoring program with current data</p>
Table E-1	Updated groundwater results for Open Burn/Open Detonation Unit
Table E-2	<p>Updated well descriptions for the groundwater monitoring program</p> <p>Replaced monitoring well RS814 with RS3054 in the groundwater monitoring program for SWMU RSA-083</p>
Table E-5	Updated the summary of groundwater monitoring results

Table E-6	Updated the list of chemicals of concern
Table E-8	Updated groundwater protection standards
Table E-10	Updated the documents incorporated by reference into Section E
Table J-1	Updated the permit table for the SWMUs modified during Modification No. 2 Added new SWMU RSA-071-R-01 to the list of RSA SWMUs.
Table J-3	Removed Ranges 1101 and 1102 from Range Complex 1100
Appendix J-1	Revised the SWMU boundaries of RSA-071 to incorporate RSA-071-R-01

VI. TECHNICAL CONTACT

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