

**DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
SOLID WASTE LANDFILL PERMIT**

ATK Launch Systems - Promontory Class IIIb Landfills

Pursuant to *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Part 1, Utah Code Annotated (Utah Code Ann.) (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code R315-301 through 320 adopted thereunder, a Permit is issued to

Northrop Grumman Systems Corporation as owner and
ATK LAUNCH SYSTEMS, LLC as operator
(Permittees),

to own and operate the ATK Launch Systems - Promontory Class IIIb Landfills, which are located as shown below, and as found in the Permit Renewal Application that was determined complete on April 30, 2021:

M-136	in SW Quarter of Section 16, Township 11 North, Range 5 West, Salt Lake Base and Meridian, Box Elder County, Utah;
M-336	in SE Quarter of Section 8, Township 11 North, Range 5 West, Salt Lake Base and Meridian, Box Elder County, Utah;
Rocky Point	in NW Quarter of Section 20, Township 11 North, Range 5 West, Salt Lake Base and Meridian, Box Elder County, Utah;

The Permittees are subject to the requirements of R315-301 through 320 of the Utah Administrative Code and the requirements set forth herein.

All references to R315-301 through 320 of the Utah Administrative Code are to regulations that are in effect on the date that this permit becomes effective.

This Permit shall become effective _____.

This Permit shall expire at midnight _____.

Closure Cost Revision Date:_____.

Signed this ____ day of _____, 2021.

Doug Hansen, Director
Utah Division of Waste Management and Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME: ATK Launch Systems - Promontory Class IIIb Landfills

OWNER NAME: Northrop Grumman Systems Corporation

OWNER ADDRESS: 2980 Fairview Park Dr
Falls Church, VA 22042-4511

OWNER PHONE NO.: (703) 280-2900

OPERATOR NAME: ATK Launch Systems LLC

OPERATOR ADDRESS: PO Box 707
Brigham City, UT 84032

OPERATOR PHONE NO.: (801) 251-2166

TYPE OF PERMIT: Class IIIb Landfill

PERMIT NUMBER: 0004R3

LOCATION: Landfill sites are located in Township 11 North, Range 5 West, Sections 8, 16, and 20, SLMB; Box Elder County.

M-136 – Lat. 41°41'10.37"N, Long. 112°25'41.61"W

M-336 – Lat. 41°41'42.97"N, Long. 112°26'26.48"W

Rocky Point - Lat. 41°40'21.15"N, Long. 112°26'39.66"W

9160 North Highway 83
Corinne UT

PERMIT HISTORY This is the third renewal of the permit. This renewal permit is effective on the date shown on the signature page.

The term, "Permit," as used in this document is defined in R315-301-2(55) of the Utah Administrative Code. Director, as used throughout this permit, refers to the Director of the Division of Waste Management and Radiation Control.

The Permit renewal application for ATK Launch Systems - Promontory Class IIIb Landfills (DSHW-2021-005283) was deemed complete on the date shown on the signature page of this Permit. All representations made in the attachments of this permit are enforceable under R315-301-5(2) of the Utah Administrative Code. Where differences in wording exist between this Permit and the attachments, the wording of this Permit supersedes that of the attachments.

This Permit consists of the signature page, Facility Owner/Operator Information section, sections I through V, and all attachments to this Permit.

The facility as described in this Permit consists of three Class IIIb disposal cells, identified as M-136 (propellant ash), M-336 (solid waste generated on-site), and Rocky Point (large industrial component waste).

Compliance with this Permit does not constitute a defense to actions brought under any other local, state, or federal laws. This Permit does not exempt the Permittees from obtaining any other local, state, or federal permits or approvals required for the facility operation.

The issuance of this Permit does not convey any property rights, in either real or personal property, or any exclusive privileges. Nor does this Permit authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations, including zoning ordinances.

The provisions of this Permit are severable. If any provision of this Permit is held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this Permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

By this Permit, the Permittees are subject to the following conditions.

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittees shall operate the landfill in accordance with all applicable requirements of R315-304 of the Utah Administrative Code which are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann. § 19-6-101 through 125 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, termination, or denial of a permit renewal application.

I.B. Acceptable Waste

I.B.1. This Permit is for disposal of nonhazardous industrial solid waste, as defined in R315-301-2(35) of the Utah Administrative Code, generated by ATK Launch Systems, LLC and as described in the Permit Application, including regulated asbestos-containing material, and PCBs as specified by R315-315-7(2) of the Utah Administrative Code.

I.B.2. The landfill unit designated as M-336 in the Permit Application may accept non-hazardous industrial waste including regulated asbestos waste, office waste, employee cafeteria waste, and carcasses of animals killed on site either by accident or allowed under state and federal permits.

I.B.3. The landfill unit designated as M-136 in the Permit Application may accept exclusively non-hazardous propellant burn ash and related non-hazardous debris generated exclusively on site.

I.B.4. The landfill unit designated Rocky Point may accept large hardware such as rocket motor nozzles, cases, and other miscellaneous large items.

I.C. Prohibited Waste

I.C.1. Hazardous waste as defined by R315-261 of the Utah Administrative Code;

I.C.2. PCB's as defined by R315-301-2(53) of the Utah Administrative Code, except PCB's specified by R315-315-7(2)(a) and (c) of the Utah Administrative Code;

I.C.3. Household waste;

I.C.4. Municipal waste;

I.C.5. Special waste except as specified in this Permit;

I.C.6. Commercial waste; and

- I.C.7. Containers larger than household size (five gallons) holding any liquid, non-containerized material containing free liquids, or any waste containing free liquids in containers larger than five gallons.
- I.C.8. Any prohibited waste received and accepted for disposal at the facility shall constitute a violation of this Permit, of Utah Code Ann. § 19-6-101 through 125 and of R315-301 through 320 of the Utah Administrative Code.
- I.D. Inspections and Inspection Access
- I.D.1. The Permittees shall allow the Director or an authorized representative, or representatives from the Bear River Health Department, to enter at reasonable times and:
- I.D.1.a Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.D.1.b Have access to and copy any records required to be kept under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.D.1.c Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes required under this Permit or regulated under R315-301 through 320 of the Utah Administrative Code; and
- I.D.1.d Create a record of any inspection by photographic, video, electronic, or any other reasonable means.
- I.E. Noncompliance
- I.E.1. If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under R315-301 through 320 of the Utah Administrative Code may be or is being violated, the Permittees shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules.
- I.E.2. In the event of noncompliance with any permit condition or violation of an applicable rule, the Permittees shall promptly take any action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing warning signs, or permanently closing areas of the facility.
- I.E.3. The Permittees shall:
- I.E.3.a Document the noncompliance or violation in the daily operating record, on the day the event occurred or the day it was discovered;
- I.E.3.b Notify the Director of the Utah Division of Waste Management and Radiation Control by telephone within 24 hours, or the next business day following documentation of the event; and

- I.E.3.c Give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days after Director notification.
- I.E.4. Within thirty days after the documentation of the event, the Permittees shall submit to the Director a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. Upon receipt and review of the assessment report, the Director may order the Permittees to perform appropriate remedial measures including the development of a site remediation plan for approval by the Director.
- I.E.5. In an enforcement action, the Permittees may not claim as a defense that it would have been necessary to halt or reduce the permitted activity to maintain compliance with R315-301 through 320 of the Utah Administrative Code and this Permit.

I.F. Revocation or Termination

- I.F.1. This Permit is subject to revocation or termination if the Permittees fail to comply with any condition of the Permit. The Director will notify the Permittees in writing before any proposed revocation action and such action shall be subject to all applicable hearing procedures established under R305-7 of the Utah Administrative Code and the Utah Administrative Procedures Act.

I.G. Attachment Incorporation

- I.G.1. Attachments to the Permit Application are incorporated by reference into this Permit and are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in this Permit supersedes any conflicting language in the attachments or documents incorporated into the attachments.

II. DESIGN AND CONSTRUCTION

II.A. Design and Construction

- II.A.1. The landfill shall be constructed according to the design outlined in Attachment 1 and in the area designated in Attachment 2, including landfill cells, fences, gates, and berms.
- II.A.2. The Permittees shall notify the Director upon completion of construction of any landfill cells or run-on and run-off diversion systems. No landfill cells or run-on and run-off diversion system may be used until construction is approved by the Director and this permit modified.
- II.A.3. The Permittees shall notify the Director of the completion of construction of any final cover system and shall provide all necessary documentation and shall apply for approval of the construction from the Director and modification of this permit.
- II.A.4. If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and an alternative construction design developed and submitted for approval.

II.B. Run-On Control

II.B.1. The Permittees shall construct drainage channels and diversions as specified in Attachment 1 and shall maintain them at all times to effectively prevent runoff from the surrounding area from entering the landfill.

III. LANDFILL OPERATION

III.A. Operations Plan

III.A.1. The Permittees shall keep the Operations Plan included in Attachment 3 on-site at the landfill or the location designated in section III.H of this Permit. The Permittees shall operate the landfill in accordance with the operations plan. If necessary, the Permittees may modify the Operations Plan following the procedures of R315-311-2(1) of the Utah Administrative Code and approved by the Director. The Permittees shall note any modification to the Operations Plan in the daily operating record.

III.B. Security

III.B.1. The Permittees shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittees shall:

III.B.1.a Lock all facility gates and other access routes during the time the landfill is closed.

III.B.1.b Have at least one person employed by the Permittees at the landfill during all hours that the landfill is open.

III.B.1.c Construct all fencing and any other access controls as shown in Attachment 1 to prevent access by persons or livestock by other routes.

III.C. Training

III.C.1. The Permittees shall provide training for on-site personnel in landfill operation, including waste load inspection, hazardous waste identification, and personal safety and protection.

III.D. Burning of Waste

III.D.1. Intentional burning of solid waste is prohibited and is a violation of R315-303-4(2)(b) of the Utah Administrative Code.

III.D.2. The Permittees shall ensure that all accidental fires are extinguished as soon as reasonably possible.

III.E. Cover

III.E.1. The Permittees shall cover the waste as necessary to prevent fires and to control vectors, blowing litter, odor, scavenging, and fugitive dust. The Permittees shall cover wastes that are capable of attracting or providing food for vectors, materials that may become windblown litter or fine materials that may become fugitive dust with a

minimum of six inches of earth at the end of the working day in which the wastes are received. The Permittees may use an alternative cover material when the material and operation meet the requirements of R315-303-4(4)(b) through (e) of the Utah Administrative Code.

- III.E.2. The Permittees shall use a minimum of six inches of earthen cover no less than once each day for Landfill unit M-336 when waste is received there; no less than once each quarter in which wastes are received at Landfill units M-136; and as needed at Rocky Point. This cover shall consist of soil; no alternative may be used.
- III.E.3. The Permittees shall record in the daily operating record and the operator shall certify, at the end of each day of operation when soil or an alternative cover is placed, the amount and type of cover placed, and the area receiving cover.
- III.E.4. Cover requirements for dead animals are found in Section III.L of this Permit.

III.F. Waste Inspections

- III.F.1. The Permittees shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed of in the landfill. The Permittees shall conduct a complete waste inspection at a minimum frequency of 1 % of incoming loads, but no less than one inspection per week. The Permittees shall select the loads to be inspected on a random basis.
- III.F.2. The Permittees shall inspect all loads suspected or known to have one or more containers capable of holding more than five gallons of liquid to ensure that each container is empty.
- III.F.3. The Permittees shall inspect all loads that the Permittees suspects may contain a waste not allowed for disposal at the landfill.
- III.F.4. The Permittees shall conduct complete random inspections as follows:
 - III.F.4.a The Permittees shall conduct the random waste inspection at the working face or an area designated by the Permittees.
 - III.F.4.b The Permittees shall direct that loads subjected to complete inspection be unloaded at the designated area;
 - III.F.4.c Loads shall be spread by equipment or by hand tools;
 - III.F.4.d Personnel trained in hazardous waste recognition and recognition of other unacceptable waste shall conduct a visual inspection of the waste; and
 - III.F.4.e The personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Attachment 4. The Permittees shall place the form in the daily operating record at the end of the operating day.
 - III.F.4.f The Permittees or the waste transporter shall properly dispose of any waste found that is not acceptable at the facility at an approved disposal site for the waste type and handle the waste according to the rules covering the waste type.

III.G. Self Inspections

III.G.1. The Permittees shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. The Permittees shall complete these general inspections no less than quarterly and shall cover the following areas: Waste placement, compaction, cover; fences and access controls; roads; run-on/run-off controls; final and intermediate cover; litter controls; and records. The Permittees shall place a record of the inspections in the daily operating record on the day of the inspection. The Permittees shall correct the problems identified in the inspections promptly and document the corrective actions in the daily operating record.

III.H. Recordkeeping

III.H.1. The Permittees shall maintain and keep on file at the ATK Launch Systems Environmental Services Office, a daily operating record and other general records of landfill operation as required by R315-302-2(3) of the Utah Administrative Code. The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. Each record to be kept shall contain the signature of the appropriate operator or personnel and the date signed. The Daily operating record shall consist of the following two types of documents:

III.H.1.a Records related to the daily landfill operation or periodic events including:

III.H.1.a.(i) The number of loads of waste and the weights or estimates of weights or volume of waste received each day of operation and recorded at the end of each operating day;

III.H.1.a.(ii) Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;

III.H.1.a.(iii) Results of monitoring required by this Permit recorded in the daily operating record on the day of the event or the day the information is received;

III.H.1.a.(iv) Records of all inspections conducted by the Permittees, results of the inspections, and corrective actions taken shall be recorded in the record on the day of the event.

III.H.1.b Records of a general nature including:

III.H.1.b.(i) A copy of this Permit, including all attachments;

III.H.1.b.(ii) Results of inspections conducted by representatives of the Director of the Division of Waste Management and Radiation Control, and representatives of the local Health Department, when forwarded to the Permittees;

III.H.1.b.(iii) Closure and Post-closure care plans; and

III.H.1.b.(iv) Records of employee training.

III.I. Reporting

III.I.1. The Permittees shall prepare and submit to the Director an Annual Report as required by R315-302-2(4) of the Utah Administrative Code. The Annual Report shall include: the period covered by the report, the annual quantity of waste received, an annual update of the financial assurance mechanism, and all training programs completed.

III.J. Roads

III.J.1. The Permittees shall improve and maintain all access roads within the landfill boundary that are used for transporting waste to the landfill for disposal shall be improved and maintained as necessary to assure safe and reliable all-weather access to the disposal area.

III.K. Litter Control

III.K.1. Litter resulting from operations of the landfill shall be minimized. In addition to the litter control plans found in Attachment 3, the Permittees shall implement the following procedures when high wind conditions are present:

III.K.1.a Reduce the size of the tipping face;

III.K.1.b Reduce the number of vehicles allowed to discharge at the tipping face at one time;

III.K.1.c Orient vehicles to reduce wind effects on unloading and waste compaction;

III.K.1.d Reconfigure tipping face to reduce wind effect;

III.K.1.e Use portable and permanent wind fencing as needed; and

III.K.1.f Should high winds present a situation that the windblown litter cannot be controlled, the Permittees shall cease operations of the landfill until the winds diminish.

III.L. Disposal of Special Wastes

III.L.1. The Permittees may dispose of animal carcasses may in the landfill working face and shall cover them with other solid waste or earth by the end of the operating day in which the carcasses are received. Alternatively, the Permittees may dispose of animal carcasses in a special trench or pit prepared for the acceptance of dead animals. If a special trench is used, the Permittees shall cover animals placed in the trench with six inches of earth by the end of each operating day.

III.L.2. The Permittees shall handle and dispose of asbestos waste in accordance with R315-315-2 of the Utah Administrative Code.

III.L.3. Loads of propellant ash for disposal in Landfill unit M-136 shall be transported in such a manner as to prevent leakage or the release of fugitive dust.

IV. CLOSURE REQUIREMENTS

IV.A. Closure

IV.A.1. The final cover of the landfill shall be as shown in Attachment 3. The final cover shall meet, at a minimum, the standard design for closure as specified in R315-305-5(5)(b) of the Utah Administrative Code.

IV.B. Title Recording

IV.B.1. The Permittees shall meet the requirements of R315-302-2(6) of the Utah Administrative Code by recording a notice with the Box Elder County Recorder as part of the record of title that the property has been used as a landfill. The notice shall include waste disposal locations and types of waste disposed of. The Permittees shall provide the Director the notice as recorded.

IV.C. Post-Closure Care

IV.C.1. The Permittees shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan contained in the Permit Application. Post-closure care shall continue until all waste disposal sites at the landfill have stabilized and the finding of R315-302-3(7)(c) of the Utah Administrative Code is made.

IV.D. Financial Assurance

IV.D.1. The Permittees shall keep in effect and active the currently approved financial assurance mechanism or establish another approved mechanism that meets the requirements of R315-309 of the Utah Administrative Code and is approved by the Director to cover the costs of closure and post-closure care at the landfill. The Permittees shall adequately fund and maintain the financial assurance mechanism(s) to provide for the cost of closure at any stage or phase or anytime during the life of the landfill or the permit life, whichever is shorter.

IV.E. Financial Assurance Annual Update

IV.E.1. The Permittees shall submit an annual revision of closure and post-closure costs for inflation and financial assurance funding as required by R315-309-2(2) of the Utah Administrative Code, to the Director as part of the annual report.

IV.F. Closure Cost and Post-Closure Cost Revision

IV.F.1. The Permittees shall submit a complete revision of the closure and post-closure cost estimates by the Closure Cost Revision Date listed on the signature page of this Permit and any time the facility is expanded, any time a new cell is constructed, or any time a cell is expanded.

V. ADMINISTRATIVE REQUIREMENTS

V.A. Permit Modification

V.A.1. Modifications to this Permit may be made upon application by the Permittees or by the Director following the procedures specified in R315-311-2 of the Utah Administrative Code. The Permittees shall be given written notice of any permit modification initiated by the Director.

V.A.2. Permit Transfer

V.A.2.a This Permit may be transferred to a new Permittees or new Permittees by complying with the permit transfer provisions specified in R315-310-11 of the Utah Administrative Code.

V.B. Expansion

V.B.1. This Permit is for the operation of a Class IIIb Landfill according to the design and Operation Plan described and explained in the Permit Application. Any expansion of the current footprint designated in the description contained in the Permit Application, but within the property boundaries designated in the Permit Application, shall require the submittal of plans and specifications to the Director. The plans and specifications shall be approved by the Director before construction.

V.B.2. Any expansion of the landfill facility beyond the property boundaries designated in the description contained in the Permit Application shall require the submittal of a new Permit Application in accordance with the requirements of R315-310 of the Utah Administrative Code.

V.B.3. Any addition to the list of acceptable waste in Section I.B shall require the submittal of all necessary information to the Director and the approval of the Director.

V.C. Expiration

V.C.1. If the Permittees desire to continue operating this landfill after the expiration date of this Permit, the Permittees shall apply for a renewal permit at least six months before the expiration date, as shown on the signature (cover) page of this Permit. If the Permittees submit a permit renewal application and the permit renewal is not complete by the expiration date, this Permit shall continue in force until the renewal is completed or denied.

VI. ATTACHMENTS

Attachment 1 – Design Diagrams

Attachment 2 – Site Diagrams and Geologic Maps

Attachment 3 – Operations Plan

Attachment 4 – Waste Inspection Form