1. FACILITY SUMMARY
The Area 5 Class III Solid Waste Disposal Site (SWDS) is located at the Eastern edge of Frenchman Flat within the Area 5 Radiological Waste Management Site, in Area 5, Nevada National Security Site, Nye County, Nevada. The SWDS includes seven existing landfill cells (Cells 19, 20, 22, 23, 24, 27, and 28).

1.1 GENERAL DESCRIPTION
The Permit authorizes the operation of a Class III disposal site, consisting of industrial solid waste landfill units, contiguous land, structures, and other appurtenances and improvements for the disposal of industrial waste as approved by the Nevada Division of Environmental Protection (Division). The Application provides that an interim cover will be installed with ongoing operations, with a final cover to be installed at time of closure. The Owner/Operator will perform closure, and post closure care in accordance with this Permit.

1.2 OWNER/OPERATOR
Owner: U.S. Department of Energy
National Nuclear Security Administration
Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518

Authorized Agent: Scott A. Wade
Senior Advisor for Environmental Management

Operator: Mission Support and Test Services, LLC
P. O. Box 98521
Las Vegas, Nevada 89193-8521

Authorized Agent: Mark W. Martinez
President

1.3 FACILITY LOCATION
Nevada National Security Site – Area 5, NNSS, Nye County
1.4 FACILITY DESIGN

Permitted Design Summary

<table>
<thead>
<tr>
<th>Cell</th>
<th>Dimensions (ft)</th>
<th>Design Capacity (yds³)</th>
<th>Net Capacity (yds³)</th>
<th>Total Design Capacity (yds³)</th>
<th>Total Net Capacity (yds³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>150 x 675 x 21</td>
<td>78,750</td>
<td>43,074</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>300 x 675 x 21</td>
<td>157,500</td>
<td>87,888</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>790 x 280 x 20</td>
<td>163,852</td>
<td>97,656</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>800 x 127 x 20</td>
<td>75,259</td>
<td>45,156</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>250 x 546 x 21</td>
<td>106,167</td>
<td>60,667</td>
<td>648,372</td>
<td>367,863</td>
</tr>
<tr>
<td>27</td>
<td>470 x 160 x 12</td>
<td>33,422</td>
<td>16,711</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>470 x 160 x 12</td>
<td>33,422</td>
<td>16,711</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(\text{ft} = \text{feet}\)

\(\text{yds}^3 = \text{cubic yards}\)

2. GENERAL PERMIT CONDITIONS

2.1 DEFINITIONS

Unless the context otherwise requires, the definitions used in this Permit have the meanings ascribed to them in NAC 444.5701 to 444.631.

“Landfill volume” means the quantity of space contained above the bottom liner and including the final cover of a landfill design.

“Landfill disposal capacity” means the quantity of solid waste, by volume that can be placed in a landfill, given its landfill volume and plan of operations.

2.2 PERMIT ACTIONS (NAC 444.643)

This Permit is based upon the information submitted in the Permit application, and as approved by the Nevada Division of Environmental Protection (hereafter called the Division). This Permit may be modified by the Division, for cause, in accordance with NAC 444.643 or if there is a change in the statutes or regulations upon which the issuance of the Permit is based or if a modification is otherwise necessary to protect public health, safety and the environment. This Permit may be revoked or suspended if written notice is given by the solid waste management authority and the disposal site does not remain in compliance with the applicable statutes and regulations. The filing of a request by the Permittee for a Permit modification or termination, or a notification of planned changes or anticipated noncompliance, or termination of activities authorized in the Permit does not stay any Permit condition. The Permittee shall inform the Division of any deviation from or change in the operations as presented in the application, which may affect the Permittee's ability to comply with applicable regulations or conditions of this Permit. This Permit may be transferred to a subsequent owner or operator only if the solid waste management authority approves the transfer based on documentation of financial responsibility provided by the new owner or operator.

2.3 AVAILABILITY OF PERMIT DOCUMENTS

The Permittee shall keep, at the disposal site, a complete copy of this Permit and incorporated documents, as identified herein.
2.4 COMPLIANCE WITH STATUTES AND REGULATIONS
The Permittee shall comply with NRS 444.440 through 444.620, and NAC 444.570 through 444.7499, and 444.965 through 444.976, as applicable.

2.5 DUTY TO PROVIDE INFORMATION
The Permittee shall furnish to the Division, within a reasonable time, any relevant information which the Division may request to determine compliance with this Permit or to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit. The Permittee shall also furnish to the Division, upon request, copies of records required to be kept by this Permit.

2.6 INCIDENT REPORTING
The Permittee shall report incidents to the Division as provided in the Operating Plan. In addition, the Permittee shall report any noncompliance, imminent or existing hazard from a release of waste or hazardous constituents, or from a fire or explosion at the facility, which may endanger human health or the environment. Such information shall be reported by telephone to 888-331-6337 within twenty-four (24) hours from the time the Permittee becomes aware of the circumstances. A written report shall be submitted within 15 days of the incident and shall include the following:

i. Name and title of person making report;
ii. Date, time, and type of incident;
iii. Name and quantity of material(s) involved;
iv. A complete description of the occurrence and its cause;
v. The extent of injuries, if any;
vi. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable;
vii. Estimated quantity and disposition of recovered material that resulted from the incident; and
viii. Actions taken by the Permittee in response to the incident.

2.7 REPORTING ANTICIPATED NON-COMPLIANCE
The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity that may result in noncompliance with Permit requirements.

2.8 INSPECTION AND ENTRY
The Permittee shall allow the Division, or an authorized representative, upon the presentation of credentials or other documents as may be required by law to:

i. Enter at reasonable times upon the Permittee’s premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;
ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
iii. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
iv. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized, any substances or parameters at any location subject to the Permit.
2.9 **CONSTRUCTION QUALITY ASSURANCE AND QUALITY CONTROL (NAC 444.645)**

The Permittee shall:

i. Develop and carry out a program for quality assurance and quality control for the construction of all liner systems required by NAC 444.681; and

ii. Submit a summary of this program to the solid waste management authority before commencement of construction of the disposal site.

3. **PERMIT DOCUMENTS**

The following documents, as submitted by the Permittee and approved by the Division also describe and/or restrict the operation of this disposal site:

i. Permit Application (May, 2018)

4. **WASTE ACCEPTANCE CRITERIA**

The governing document for waste acceptance criteria is the Nevada National Security Site Waste Acceptance Criteria (NNSSWAC), which requires disposal site operators to verify that waste received at the site is from approved generators who must comply with all requirements of the NNSSWAC.

4.1 **SOLID WASTES PERMITTED FOR DISPOSAL**

1. Regulated Asbestiform Low-Level Waste (ALLW) that is generated by asbestos abatement programs administered by state or federal agencies pursuant to the Toxic Substance Control Act (TSCA).

2. Regulated Asbestiform Low-Level Legacy Waste.

3. NNSA/NFO-generated Low-Level Radioactive Hydrocarbon-Burdened (LLHB) media and debris and LLHB demolition and construction waste. This material may or may not be contaminated with regulated asbestiform material.

4. Low Level Waste (LLW) that meets the waste acceptance criteria

5. LLW that meets the waste acceptance criteria and contains Polychlorinated Biphenyl (PCB) Bulk Product Waste greater than 50 ppm that leaches at a rate of less than 10 micrograms of PCB per liter of water.

6. DOE and DOD classified non-hazardous non-radioactive waste.

7. Other waste on a case-by-case basis, with concurrence from the Division.

4.2 **PROHIBITED SOLID WASTES**

1. Liquid waste as defined by NAC 444.692(4)

2. Hazardous waste, as defined by State and Federal Regulations

3. Household Waste

4. Garbage as defined by NAC 444.578

5. **RECORDKEEPING**

The Permittee shall maintain records at the site as described in Exhibit 1 of the Permit Application. The owner or operator shall notify the solid waste management authority when documentation listed in section 5.1 of this permit has been placed in or added to the operating records. All information contained in the operating records must be furnished upon request to the solid waste management authority or be made available at all reasonable times for inspection by the solid waste management authority.
5.1 CLASS III FACILITY RECORDS
   i. Any documentation of cost estimates and financial assurance required pursuant to NAC 444.685:
   ii. Plans for closure and postclosure care and any monitoring, testing or analytical data required pursuant to NAC 444.6891 to 444.6896, inclusive; and
   iii. How the site conforms to the restrictions on location set forth in NAC 444.735; and
   iv. Any plan to characterize solid waste required pursuant to NAC 444.737; and
   v. Any demonstration, certification, finding, monitoring, testing or analytical data from the program for monitoring ground water required pursuant to NAC 444.7481 to 444.7499, inclusive; and
   vi. The owner or operator shall promptly notify the solid waste management authority after the owner or operator has placed the information in the operating record of its facility pursuant to this subsection. The information must be furnished upon request to the solid waste management authority or be made available for inspection by the solid waste management authority at any reasonable time.

6. REPORTING
   1. Submit annually to the Division a report of the solid waste received at the site. The report must be submitted to the Division within 30 days following the end of each calendar year.
   2. The Permittee shall submit online (https://nvwastemanagementreports.ndep.nv.gov/submitdisposal/) annually the weight and volume of waste disposed of the solid waste received at the site. The online reporting is due 30 days following the end of each calendar year.
   3. Submit annually to the Division a report of the ALLW received at the site. The report must be submitted to the Division within 30 days following the end of each calendar year.  
      Note: Reports 1 & 3 may be combined into a single report.
   4. Submit quarterly to the Division a report of the ALLW received at the site in accordance with NAC 444.972 and agreements reached with the Division. The report must be submitted to the Division within 30 days following the end of each calendar quarter.
   5. The Permittee shall by December 31, 2021 and at least once every 5 years thereafter until the site is closed.
      i. Indicate the remaining volume and disposal capacity of the site;
      ii. Indicate the volume used and waste disposed of since the original report of design; and
      iii. Calculate the remaining life of the site, in years.

6.1 FINANCIAL ASSURANCE REPORTING. THE PERMITTEE SHALL:
   Nevada Administrative Code 444.685 exempts entities of the federal government from the financial assurance requirements outlined in the state of Nevada solid waste disposal regulations.

6.2 NOTIFICATION OF NEW CELL CONSTRUCTION
   In accordance with NRS 444.556, the Permittee shall notify the Division in writing within 10 days following the commencement of construction of a new cell.
6.3 SUBMISSIONS
All reports, notifications, or other submissions which are required by this Permit must be submitted by the specified due date to:

Bureau of Federal Facilities
Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119

7. GROUNDWATER MONITORING
Groundwater Monitoring shall be conducted in accordance with NAC 444.683 and NAC 444.7481 through NAC 444.7498.

8. AUTHORIZATION

<table>
<thead>
<tr>
<th>Signature of Approving Officer</th>
<th>Name and Title of Approving Officer</th>
<th>Date of Issuance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christine D. Andres, Chief</td>
<td>Bureau of Federal Facilities</td>
<td>10/8/18</td>
</tr>
</tbody>
</table>