



**NUMBER  
LF006-CMF-01**

**SOUTHERN NEVADA DISTRICT BOARD OF HEALTH**

**REID GARDNER STATION**

**PERMIT TO OPERATE A SOLID WASTE MANAGEMENT FACILITY**

**1. TYPE OF SOLID WASTE MANAGEMENT FACILITY:**

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Class I Disposal Site             | <input type="checkbox"/> Class II Disposal Site  | <input checked="" type="checkbox"/> Class III Disposal Site |
| <input type="checkbox"/> Compost Plant                     | <input type="checkbox"/> Construction and Demolition Waste Short-Term Storage Facility | <input type="checkbox"/> Materials Recovery Facility        |
| <input type="checkbox"/> Public Waste Storage Bin Facility | <input type="checkbox"/> Recycling Center  | <input type="checkbox"/> Salvage Yard                       |
| <input type="checkbox"/> Transfer Station                  | <input type="checkbox"/> Waste Tire Management Facility                                |   |

**2. Name & Location of Facility**

Reid Gardner Station  
501 Wally Kay Way  
Moapa, NV 89025

Telephone Number: (702) 402-1305

APNs: 042-07-000-001,  
042-07-000-002, and  
042-07-000-004

**3. Name & Address of Facility Owner**

NV Energy, Inc.  
6226 W Sahara Ave, M/S 30  
Las Vegas, NV 89146

Telephone Number: (702) 402-5767

**4. Name & Address of Facility Operator**

NV Energy, Inc.  
6226 W Sahara Ave, M/S 30  
Las Vegas, NV 89146

Telephone Number: (702) 402-5767

**5. Design Parameters:**

Maximum Elevation (feet AMSL): 1850

**Area of waste placement:**

136 acres

**Processing Capacity:**

Approximately 11,590,000 cubic yards of capacity remaining.

**6. Solid Waste Approved for Processing:**

Bottom ash, fly ash, reactivator solids, pond solids, C&D debris, and asbestos containing material.

**7. Prohibitions:**

Other than approved above: CFC containing waste or the release of CFCs, contained gaseous material, hazardous waste, liquid waste, medical waste, PCB wastes, putrescible waste, radioactive waste, special solid waste, and stolen items.

**8. The following documents as approved by the Southern Nevada Health District (District) also describe and/or restrict the operation of this facility and are incorporated as conditions:**

1. Application for Approval to Operate a Class III Landfill received April 10, 2007, as amended and modified.
2. Application for Permit to Modify a Class III Landfill, received December 22, 2009, as amended.
3. Mesa Landfill Sampling Plan, received August 31, 2011, as amended.

**9. The following conditions are also incorporated:**

1. Table of Conditions approved April 28, 2011 (attached).

**10.** This permit is granted based on the information provided in the application, and subsequent amendments approved by the Southern Nevada District Board of Health, and any subsequent amendments approved by the District, and may be modified if the statutes or regulations upon which the permit is based change, or if a modification is otherwise necessary in the interest of public health and safety, and the environment. Any discrepancies between information contained in the application and the actual construction and operation of the facility may be grounds for revocation and enforcement action. The business owner/operator must inform the District of any deviation from or change in the information in the application, which may affect their ability to comply with applicable regulations and other legal requirements imposed, or conditions of this permit.

Signature of Approving Authority:

Name and Title of Approving Authority:

Glenn D. Savage, R.E.H.S.  
Environmental Health Director

Date of Permit: September 9, 2011

Last Approval: July 26, 2007

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|  | <b>CLASS III DISPOSAL SITE<br/>DATE OF PERMIT:</b> | <b>Number<br/>LF006-CMF-01<br/>Reid Gardner Station</b> |
|---|--|---|


| #  | Part 9 Table of Conditions  | Exceedance Level or Standard <sup>2</sup>   | Action Date (Effective Date)   |
|----|---|---|--|
| 1. | This Facility, including all operations, must be in compliance with the latest version of all applicable federal, state and local laws, statutes, and regulations at all times.   | Standard equals continued compliance  | Date of Permit   |
| 2. | This Facility, including all operations, must be at all times in compliance with the latest version of the Solid Waste Management Authority Regulations Governing Class III Landfills and NAC 444.570 through 444.7499 as applicable.   | Standard equals continued compliance  | Date of Permit   |
| 3. | This Facility, including all operations, must be in conformance with the information submitted in the Permit Application for a Modification including a Lateral Expansion of a Class III Landfill for Reid Gardner Station on December 22, 2009, as amended.  | Standard equals continued compliance  | Date of Permit   |
| 4. | This Facility must maintain approvals for applicable land use(s) and maintain all applicable business license(s) and permits.   | Standard equals continued compliance  | Date of Permit   |
| 5. | This Facility must submit an application for a modification to the permit as required by the regulations when the statutes or regulations upon which the issuance of the permit is based change including when any new EPA rule or regulation is adopted (NAC 444.643).   | Standard equals continued compliance  | Date of Permit   |
| 6. | The lateral expansion of the facility must be in conformance with the proposed actions and requirements including the environmental protection measures and management practices described in the Bureau of Land Management's (BLM) Environmental Assessment NV-2006-292 for Reid Gardner Facility Pond and Landfill Expansion Project dated March 2008, as applicable to the "new solid waste landfill" authorized by the Bureau of Land Management's FONSI dated March 24, 2008, and the BLM Right-of-Way Agreement, dated June 19, 2008. | Standard equals continued compliance  | Date of Permit   |
| 7. | This Facility must be in compliance with the NDEP Administrative Order on Consent (AOC) as applicable to this entire Class III Disposal Site.   | Standard equals continued compliance. Non-compliance with the requirements of the AOC as deemed by NDEP associated with the landfill. | Date of Permit   |
| 8. | Permit conditions to include the following: <ul style="list-style-type: none"> <li>• Groundwater is required to be analyzed per the Mesa Landfill Sampling Plan which includes required sampling and analysis of groundwater monitoring wells near the landfill. The following SNHD Water Profile I is a list of those constituents plus additional analytes of concern.</li> </ul>   | Mesa Landfill Sampling Plan   | Mesa Landfill Sampling Plan will be approved prior to permit issuance. |
|    | <ul style="list-style-type: none"> <li>• <b>SNHD Water Profile I</b> equals NO<sub>3</sub> as N, Specific Conductivity, Sulfate, TDS or Total Dissolved Solids, pH, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Selenium, Sodium, Thallium. All metals analyses shall be dissolved.</li> </ul>   | Mesa Landfill Sampling Plan   | Date of Permit   |

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|     | <ul style="list-style-type: none"> <li>Solid waste disposed at the landfill is required to be analyzed per the Mesa Landfill Sampling Plan for constituents as identified in Table 1 of 40 CFR 261.24 using the Toxicity Characteristic Leaching Procedure (TCLP). All analytes shall be TCLP evaluated by Test Method 1311 in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846 for determining the characteristic of toxicity. The following SNHD Solids Profile I is a list of those constituents.</li> </ul>  | Mesa Landfill Sampling Plan   | Date of Permit  |
|     | <ul style="list-style-type: none"> <li><b>SNHD Solids Profile I</b> equals Arsenic, Barium, Benzene, Cadmium, Carbon Tetrachloride, Chlordane, Chlorobenzene, Chloroform, Chromium, o-Cresol, m-Cresol, p-Cresol, Cresol, 2,4-D, 1,4-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, 2,4-Dinitrotoluene, Endrin, Heptachlor (and its epoxide), Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, Lead, Lindane, Mercury, Methoxychlor, Methyl ethyl ketone, Nitrobenzene, Pentachlorophenol, Pyridine, Selenium, Silver, Tetrachloroethylene, Toxaphene, Trichloroethylene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4,5-TP (Silvex), Vinyl chloride.</li> <li>In addition to the SNHD Solids Profile I above, include the following: NO<sub>3</sub> as N, Sulfate, pH, Antimony, Beryllium, Boron, Chloride, Copper, Fluoride, Iron, Magnesium, Manganese, Molybdenum, Sodium, and Thallium.</li> </ul> | <p>Table 1 of 40 CFR 261.24 and Mesa Landfill Sampling Plan</p> <p>Sampling and analysis of these analytes will only occur when there is confirmation of a "specific analytical" outlier when compared to the statistical upward trend analysis from the groundwater data</p> | <p>Date of Permit</p> <p>Date of Permit</p>   |
| 8a. | <p>The liquids discharged from the contact water collection system to the contact water ponds will be sampled to determine the potential leachate that may be generated per the Mesa Landfill Sampling Plan:</p> <ul style="list-style-type: none"> <li>Monitor and report quarterly to SNHD for specified analytes from SNHD Water Profile 1 in accordance with the Mesa Landfill Sampling Plan.</li> <li>Monitor and report quarterly to SNHD the estimated volume of the liquids discharged.</li> </ul>   | Mesa Landfill Sampling Plan   | By the end of the quarter following completion of construction of the CWCS and quarterly thereafter |
| 8b. | Monitor and report quarterly to SNHD for specified analytes from SNHD Water Profile 1 for groundwater in specified groundwater monitoring wells in accordance with the Mesa Landfill Sampling Plan.  | Mesa Landfill Sampling Plan and Groundwater Monitoring Action Level <sup>1</sup>  | Groundwater sampling will begin the quarter following permit issuance and quarterly thereafter      |

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| 8c. | Permittee shall submit to SNHD for approval a plan for testing and monitoring of Radium 226 and Radium 228 for waste accepted at the landfill and for any liquids discharged from the contact water collection system. The plan will also address groundwater monitoring should results indicate contamination. SNHD will review and approve or disapprove the plan | Monitor and Report in accordance with Condition #9   | Date of Mesa Landfill Sampling Plan approval.   |
| 8d. | The groundwater monitoring program must be in compliance with NAC 444.7481 to NAC 444.7499 and specifically NAC 444.7489. The groundwater monitoring program must also be capable of determining that groundwater quality is unaffected by the current landfill operations.   | Mesa Landfill Sampling Plan and Groundwater Monitoring Action Level <sup>1</sup>   | Date of Permit  |
| 8e. | Provide groundwater monitoring wells, approved by the SNHD and NDEP to replace: <ul style="list-style-type: none"> <li>• LMW-4, LMW-5, and LMW-6 and LMW-8 which are currently dry or unable to be sampled.</li> </ul>  | NAC 444.7483 and NDEP Guidance Document for Design of Ground Water Monitoring Wells (WTS-4)  | Within ninety days of permit issuance   |
| 8f. | In the event that any well, including LMW-9, becomes consistently dry or unserviceable, or is abandoned, and therefore requires replacement, a replacement well shall be installed in an SNHD and NDEP approved relocation site.  | NAC 444.7483 and NDEP Guidance Document for Design of Ground Water Monitoring Wells (WTS-4)  | Notify SNHD/SW&C within 15 days. Replace within 90 days and/or after approval from BLM if applicable. |
| 8g. | The Operator of the site shall ensure that an adequate amount of water is available at all times for the control of dust and the compaction of the cover material. Additional dust control measures will be subject to modifications as required by SNHD.   | NAC 444.745.2 and continuous monitoring in conformance with the Report of Operating Plan's Dust Control in the permit application and an approved Dust Suppression for High Wind Event Day procedure | Date of Permit  |
| 8h. | Continuous monitoring will be required for criteria pollutant PM <sub>10</sub> (PM <sub>10</sub> -particulate matter less than or equal to 10 microns), SO <sub>2</sub> , NO <sub>2</sub> , and H <sub>2</sub> S at site 5 or any other site deemed necessary by the Solid Waste Management Authority.  | Monitor and report   | Completed: Monitors have been installed prior to March 1, 2011  |

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| 8i. | Provide Waste Characterization from SNHD Solids Profile 1 of following wastes accepted at the Landfill: <ul style="list-style-type: none"> <li>• Bottom Ash (annually)</li> <li>• Fly Ash (annually)</li> <li>• Reactivator Solids (Water Treatment) (annually)</li> <li>• Pond Scrubber Solids (when applicable)</li> <li>• And other regulated waste materials (when applicable),</li> </ul>   | Table 1 of 40 CFR 261.24 and Mesa Landfill Sampling Plan  | Date of Permit   |
| 8j. | <p><b>Design</b> of the lateral landfill expansion and contact water ponds: Submit Issued For Construction (IFC) drawings and specifications to SNHD for review and approval before starting construction. Allow for a 45-day review period. IFC documents must be stamped by a Professional Engineer (PE) licensed in the State of Nevada.</p> <p><b>Construction</b> of the lateral landfill expansion and contact water ponds: Substantial changes to the approved IFC documents must be stamped by a NV PE and approved by SNHD prior to implementation. Upon completion of construction, submit a report certifying that the lateral landfill expansion and contact water ponds were constructed in general accordance with the IFC drawings and specifications approved by SNHD. The report shall identify and discuss changes made to accommodate field conditions during construction. The report shall include: quality assurance records, quality control records, record drawings; and shall be stamped by a NV PE.</p> | Design & Construction, Engineering Standard and NAC 444.739   | Design 45 days prior to construction   |
| 8k. | NV Energy shall submit fees in accordance with the latest revision of the Solid Waste Management Fee Schedule including: <ul style="list-style-type: none"> <li>• Waste management annual fee (Class III Landfill)</li> <li>• Reimbursement based on an hourly rate for the SNHD staff reviews including:               <ul style="list-style-type: none"> <li>○ air monitoring results</li> <li>○ all other pertinent monitoring, sampling plans, and reports</li> <li>○ groundwater monitoring</li> <li>○ hydrogeological evaluation</li> <li>○ installation and the replacement of groundwater monitoring wells</li> <li>○ installation of contact water pond</li> <li>○ installation of the liner and contact water collection system</li> <li>○ waste characterization</li> </ul> </li> </ul>   | Current SNHD Fee Schedule   | May 1, 2011  |
| 9.  | <b>CONTACT WATER COLLECTION SYSTEM:</b> Contact water monitoring program will be developed as noted in 8a. Construction will be in accordance with specifications and plans as noted in 8j. Inspection and/or maintenance of contact water collection piping will be conducted quarterly to assure proper operation. The final design of the lateral landfill expansion will include plans for contact water management. The Mesa Landfill Sampling Plan will include monitoring and reporting the contact water quantity and quality.   | Monitor and report. Based on the results necessary actions will be taken within 14 days of the receipt of the results to prevent contamination of the waters of the state | Mesa Landfill Sampling Plan will be approved prior to permit issuance. Within 14 days necessary actions will be taken. |

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| 10. | Portable toilets will be utilized at the landfill.  | ADA Approved   | Date of Permit               |
| 11. | The setback of 25 feet from the limit of the active fill to the disposal site boundary.   | NAC 444.686.5  | Date of Permit               |
| 12. | A six inch compacted layer of Bottom Ash from Unit 4 can be utilized as alternate daily cover on a temporary basis (one year) unless observation, monitoring, and field testing indicates a threat to public health, safety, and the environment. | NAC 444.688<br>Cover of compacted solid waste. 85% of maximum density as determined by ASTM D 1557 | Date of Permit               |

**<sup>1</sup>Groundwater Monitoring Action Level:**

Assessment of Outliers (Quarterly) – Sample results will be reviewed each quarter for outlier results that are outside the historic range of concentrations. Results determined to be outliers will trigger re-analysis and/or re-sampling within 14 days of receipt of the results. Results determined to be outliers will be excluded from statistical analysis.

Assessment of Trends (Annually) – Statistical analysis and evaluation of trends for each sample parameter at each compliance monitoring well will be completed on an annual basis. Statistically increasing trends for individual parameters in accordance with the approved Mesa Landfill Sampling Plan will trigger an evaluation of the cause of the increase and the need for further assessment and/or corrective action.

**<sup>2</sup>Enforcement Actions:**

- The general enforcement remedy is to first issue an Order of Abatement under NRS 444.592 informing the permittee that they are in violation of the permit. The order also directs the permittee on the necessary corrective action(s) to be completed within a specified timeframe.
- The second step is to extend the timeframe or add additional requirements to an existing order. If non-compliant within the conditions of the order, the next step is to issue a Notice of Violation (NOV). The NOV summons the permittee to appear before the Solid Waste Management Authority Hearing Officer. During the proceeding an imposition of administrative penalties and corrective action(s) may be imposed.
- The district also has the remedy of filing a case with District Court to seek injunctive relief to compel compliance with the permit conditions. Also, the district has the option of petitioning the Board of Health for permit revocation.