

**U.S. Department of Energy  
Office of Legacy Management**

**Communications and Outreach Plan for the  
Navajo Nation Uranium Mill Tailings Radiation Control Act Sites**

**Mexican Hat, Utah, Disposal Site  
Monument Valley, Arizona, Processing Site  
Shiprock, New Mexico, Disposal Site  
Tuba City, Arizona, Disposal Site<sup>1</sup>**

**March 2019**

<sup>1</sup> The Tuba City Site also includes the government and community of the Hopi Tribe.

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Appendix A	Navajo Nation Sites Key Stakeholders
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# Abbreviations

AML/UMTRA	Abandoned Mine Lands Reclamation/Uranium Mill Tailings Remedial Action
BIA	U.S. Bureau of Indian Affairs
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
GCAP	Groundwater Compliance Action Plan
LM	Office of Legacy Management
LTSP	Long-Term Surveillance Plan
LTS&M	long-term surveillance and maintenance
NRC	U.S. Nuclear Regulatory Commission
UMTRA	Uranium Mill Tailings Remedial Action
UMTRCA	Uranium Mill Tailings Radiation Control Act

# 1.0 Introduction

The U.S. Department of Energy (DOE) established the Office of Legacy Management (LM) in 2003 to ensure the future protection of human health and the environment at sites formerly used for nuclear weapons development and production during World War II and the Cold War. LM currently has responsibility for 92 sites. The environmental legacy at these sites includes radioactive and chemical waste, environmental contamination, and hazardous materials. In addition to long-term surveillance and maintenance (LTS&M) of sites, LM also has responsibility for stakeholder relations, which involves public outreach and communication with individuals, groups, communities, and other entities in the public and private sectors that are affected by LM activities and decisions. DOE Policy 141.2, *Public Participation and Community Relations*, describes how DOE will ensure that public participation and community outreach are integral and effective parts of all activities.

The purpose of this Communications and Outreach Plan is to describe how LM will (1) support tribal stakeholder participation and community relations within the Navajo Nation and Hopi Tribe, (2) support public awareness and understanding about the long-term management of the four Navajo Nation Uranium Mill Tailings Radiation Control Act (UMTRCA) sites, and (3) foster productive communication with tribal stakeholders.

LM will support public awareness through the following activities:

- Informing the public about current and planned activities related to the sites
- Educating the public about site operations
- Presenting information to correct misperceptions about the sites
- Providing public access to site information, reports, and other documents
- Promoting use of the LM website and social media as sources of information
- Conducting community-based site meetings, open houses, and tours

LM will foster communication by participating in regular meetings with regulators and stakeholders, sharing information, and soliciting input and suggestions for changes to LM activities.

# 2.0 Background

The Navajo Nation and Hopi Reservation are situated in the Four Corners area of the southwestern United States in a region geographically identified as the Colorado Plateau. The Hopi Reservation is located entirely within the boundary of the Navajo Nation (Figure 1) and is a separate federally recognized tribal nation from the Navajo Nation.

Several of the geologic formations that form the Colorado Plateau contain deposits of uranium ore, and the rush to build nuclear weapons during World War II and the early years of the Cold War brought an unprecedented level of uranium exploration, mining, and milling activities to the region. From 1944 to 1986, nearly 4 million tons of uranium ore were mined from Navajo lands under leases with the Navajo Nation, approved by the U.S. Department of the Interior and the U.S. Bureau of Indian Affairs (BIA).

UMTRCA is the federal law that provides funding and technical support for the safe and environmentally sound disposal, long-term stabilization, and control of uranium mill tailings in a manner that minimizes or eliminates public exposure to radiation and other environmental health hazards. DOE remediated 22 inactive uranium ore processing sites, including the Navajo Nation sites, under the Uranium Mill Tailings Remedial Action (UMTRA) Title I Project, in accordance with standards promulgated by the U.S. Environmental Protection Agency (EPA).

After the closure of the uranium ore processing mills, DOE implemented a series of radiological assessments and surveys to characterize surface contamination associated with the abandoned mill processing sites located within the Navajo Nation. DOE also developed measures to remove the radioactive tailings from the four former mill sites

and vicinity properties and placed them into engineered disposal cells licensed by the U.S. Nuclear Regulatory Commission (NRC). LM is responsible for performing annual inspections of the disposal sites and conducting groundwater monitoring, groundwater treatment, and site maintenance.

To ensure protection of human health and the environment, LM is responsible for LTS&M of four UMTRCA Title I Program sites within the Navajo Nation: the Mexican Hat, Utah, Disposal Site; Monument Valley, Arizona, Processing Site; Shiprock, New Mexico, Disposal Site; and Tuba City, Arizona, Disposal Site. LM has a cooperative agreement with the Navajo Nation to assist with activities associated with the four UMTRCA Navajo Nation sites.

#### *Mexican Hat, Utah, Disposal Site*

This site is within the Navajo Nation in southeast Utah, and is the location of a former uranium-ore processing mill that operated from 1957 to 1965. DOE completed surface remediation activities at the site in 1995. Radioactive materials from the former upper tailings pile, demolished mill structures, and 11 vicinity properties were relocated and placed in a disposal cell constructed at the location of the former lower tailings pile. The Mexican Hat site requires routine inspection and maintenance, records-related activities, and stakeholder support.

#### *Monument Valley, Arizona, Processing Site*

This site is within the Navajo Nation in northeastern Arizona. A uranium-ore processing mill operated at the site from 1955 to 1968. DOE completed surface remediation activities at the site in 1994, which included removal of uranium mill tailings and other residual radioactive materials. These materials were transported and encapsulated in the Mexican Hat disposal cell. The Monument Valley site requires routine inspection and maintenance, records-related activities, stakeholder support, and annual groundwater monitoring.

#### *Shiprock, New Mexico, Disposal Site*

This site is within the Navajo Nation in the northwest corner of New Mexico. The former uranium- and vanadium-ore processing facility, operated from 1954 to 1968. By September 1986, all mill tailings and associated materials, including contaminated materials from offsite vicinity properties, were cleaned up and encapsulated in a disposal cell built on top of the existing tailings piles. The Shiprock site requires routine inspection and maintenance, records-related activities, and stakeholder support.

#### *Tuba City, Arizona, Disposal Site*

This site is within the Navajo Nation, and close to the Hopi Reservation, in northern Arizona. A uranium mill was operated at the site between 1956 and 1966. DOE completed surface remediation activities in 1990, and all uranium mill tailings from onsite piles, debris from demolished mill buildings, and windblown tailings were moved and stabilized in an engineered disposal cell onsite. The Tuba City site requires routine inspection and maintenance, records-related activities, and stakeholder support.

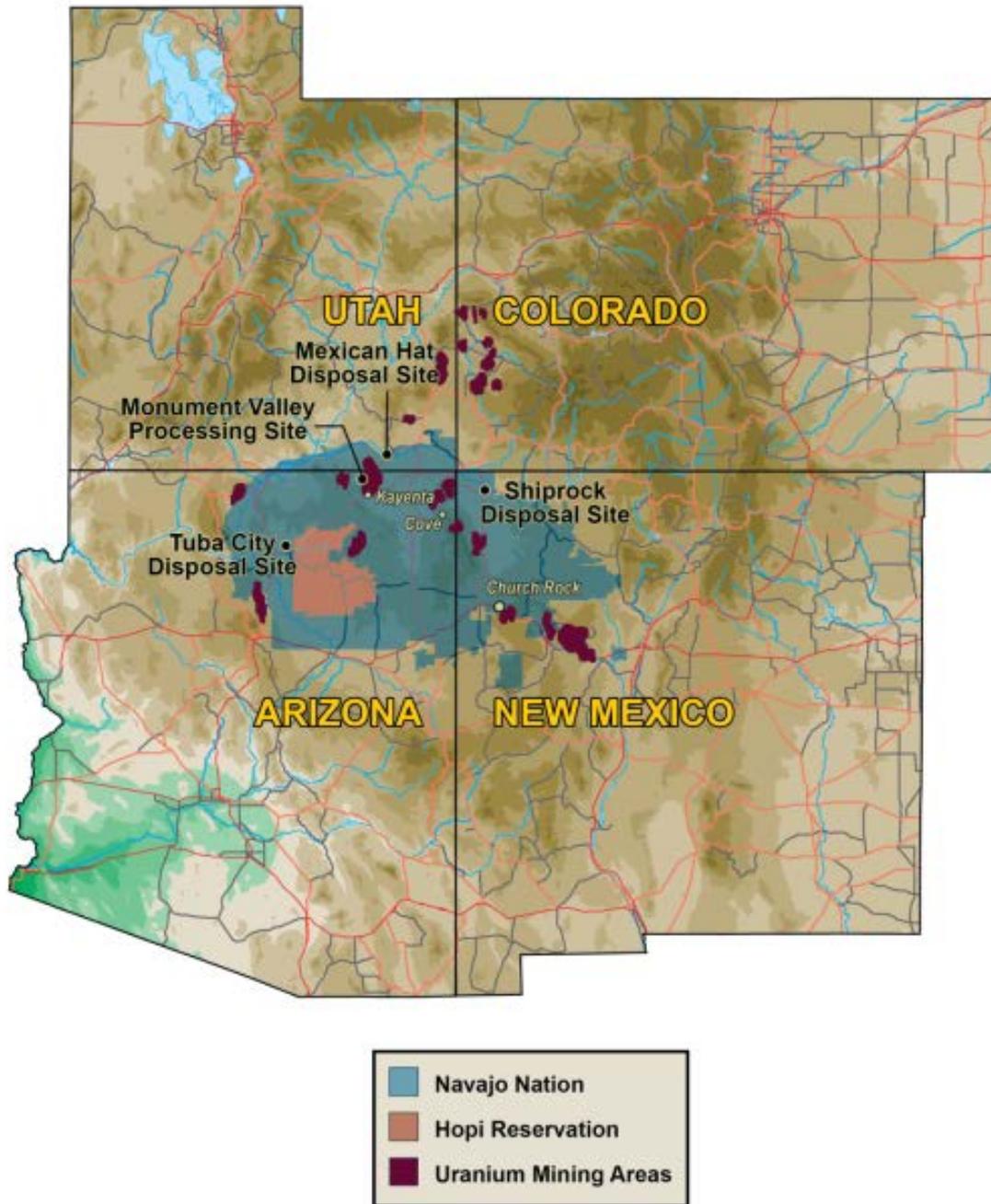


Figure 1. Site Locations

## 3.0 Community Profile

### 3.1 Navajo Nation

The Navajo Nation occupies over 24,000 square miles within the states of Arizona, Colorado, New Mexico, and Utah and is the largest American Indian reservation in the United States. In the United States, 332,129 people identify themselves as Navajos, and the total population of the Navajo Nation reservation is 286,731 (U.S. Census Bureau 2010). Most of the population lives in clusters of housing units centered around schools, hospitals, trading posts/convenience stores, churches, and Chapter houses. Tuba City is the largest community on the Navajo Nation with a population of 9,265, according to the 2010 census, and Shiprock is the second-largest community with a population of 9,126. As the population of Shiprock has increased, residents have built their homes near the Shiprock site.

The Navajo Nation has a three-branch government system with headquarters in Window Rock, Arizona.<sup>1</sup> An elected president and vice-president lead the executive branch, which includes 21 executive divisions, offices, and programs. The legislative branch is administered by the Navajo Nation Council, which is led by the speaker of the council, and is made up of 24 elected council delegates representing 110 Navajo Nation local units of government known as Chapter houses, or Chapters. The judicial branch has a system of seven district courts, seven family courts, and the Supreme Court.

The Navajo Nation is divided into five administrative agencies: Ft. Defiance Agency (AZ), Western Agency (AZ), Chinle Agency (AZ), Eastern Agency (NM), and Shiprock Agency (NM). The Navajo Utah Commission for Navajo Chapters and communities in San Juan County, Utah, is also represented.

Issues of concern in the Navajo Nation include high unemployment and poverty rates and a lack of basic services. According to the Navajo Nation Division of Economic Development, the median family income of Navajo Nation residents is \$20,005, and 43 percent live below the poverty level. The unemployment rate is much higher than the national rate with approximately 42 percent of the labor force out of work.<sup>2</sup> It is estimated that 25 percent of homes on the reservation are hogans; the remaining 75 percent are modernized houses, mobile homes, and modular buildings. Of these housing units, about 31 percent lack complete plumbing, 28 percent lack kitchen facilities, 38 percent lack water services, 32 percent lack electricity, 86 percent lack natural gas services, and 60 percent lack telephone services.<sup>3</sup>

Traditionally, the Navajo people are a matriarchal society, with descent and inheritance determined through one's mother. Traditional Navajo people have a strong sense of family allegiance and obligation. The Navajo Nation has been successful at preserving their culture despite an increasing shift toward Anglo-American lifestyles. Navajo people have a storytelling culture, and Navajo elders teach the Navajo language and share cultural traditions with younger generations. Navajo culture teaches that Navajo people have a duty as caretakers of Mother Earth and that includes helping her restore and maintain the health of the land.

### 3.2 Hopi Tribe

The Hopi Tribe is a separate federally recognized tribe consisting of a union of twelve self-governing villages located on three mesas: First Mesa, Second Mesa, and Third Mesa in northeastern Arizona. The reservation, contained entirely within the boundary of the Navajo Nation, encompasses more than 1.5 million acres. The village of Oraivi is considered to be the oldest continuously inhabited settlement in the United States, dating back to about 1100 A.D. The total population of the Hopi reservation is 12,580 Hopis or Tewa/Hopi members, and 18,327 people identify themselves as Hopis or Tewa/Hopi across the United States (U.S. Census Bureau 2010).

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<sup>1</sup> Navajo Nation Government Website, accessed December 7, 2017 (<http://www.navajo-nsn.gov/>)

<sup>2</sup> Navajo Nation Division of Economic Development, accessed December 7, 2017 (<http://navajobusiness.com/fastFacts/Overview.htm>)

<sup>3</sup> Navajo Tribal Utility Authority, accessed December 7, 2017 ([www.tribesandclimatechange.org/docs/tribes\\_5.doc](http://www.tribesandclimatechange.org/docs/tribes_5.doc))

The Hopi Villages, under authority of the federal Indian Reorganization Act of 1934, established the Hopi Tribal Council with the adoption of the constitution and bylaws of the Hopi Tribe through a referendum in 1936. According to the constitution, the Hopi Tribal Council has the power and authority to represent and speak for the Hopi Tribe in all matters related to the welfare of the tribe, and to negotiate with federal, state, and local governments and with the councils or governments of other tribes. Each of the 21 representatives of the tribal council, selected either by a village election or by an appointment from the traditional village leader, serves a two-year term. The chairman and vice chairman of the tribal council each serve a term of four years. Located in the village of Kykotsmovi, the Hopi Tribal Government is a unicameral government with certain powers vested in the tribal council by the villages. While there is an executive branch and judicial branch, their powers are limited under the Hopi Constitution.

The name Hopi means “the peaceful people” and the Hopi concept is deeply rooted in the culture’s religion, tradition, and their view of morality and ethics. Traditionally, Hopi are organized into matrilineal clans, with descent and inheritance determined through one’s mother. Hopis have a strong sense of family, clan allegiance, and obligation, and they have been successful in preserving their culture, tradition, religion, and language. When a man and woman marry and have children, the children from the relationship are members of the mother’s clan.

The Hopi are an ancient agricultural people and consider themselves “stewards” of the land in a covenant with the Caretaker of the Fourth World.

## **4.0 Health and Environmental Impacts of Contamination from Historical Uranium-Ore Processing in the Navajo Nation**

From 1944 to 1986, nearly four million tons of uranium ore were extracted from Navajo lands under mining leases with the Navajo Nation. As a result, uranium mining has left the Navajo Nation with a legacy of over 500 abandoned uranium mines, four inactive uranium milling sites, contaminated groundwater, structures that may contain elevated levels of radiation, and environmental and public health concerns. Potential health effects, depending on timing, and extent of exposure, include lung cancer from inhalation of radioactive particles, as well as bone cancer and impaired kidney function from exposure to radionuclides in drinking water.<sup>1</sup>

In 2008, Congress sanctioned a five-year, multiagency plan to address uranium contamination on the Navajo Nation. The five agencies: DOE, EPA, NRC, BIA, and Indian Health Service are working in a coordinated approach to clean up; reduce risk and exposure to contaminated sources of water and abandoned uranium mines; and conduct LTS&M of the legacy mill sites, abandoned uranium mines, and related uranium contamination within the Navajo Nation. The plan was updated in 2014 to build on the work done in the first five years and to address the most significant risks to human health and the environment.

Under the auspices of the Navajo Five-Year Plans and in collaboration with the Hopi Tribe and consistent with DOE’s regulatory responsibilities, LM will continue to work with the Navajo Nation to conduct LTS&M of the legacy mill sites, and on groundwater remediation activities at three remediated uranium milling sites: Monument Valley, Shiprock, and Tuba City. There are no groundwater issues at the Mexican Hat site.

## **5.0 Stakeholders**

Stakeholders may include any individual, group, host community, or other entity in the public and private sectors that are interested in or affected by any of LM’s activities and decisions. At the Navajo Nation UMTRCA sites, stakeholders include:

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<sup>1</sup> U.S. Environmental Protection Agency, accessed December 7, 2017 (<http://www.epa.gov/navajo-nation-uranium-cleanup>)

- Members of the Navajo Nation
- Members of the Hopi Tribe
- Navajo Nation government officials
- Hopi Tribe government officials
- Hopi village officials
- Federal agency representatives
- Congressional representatives
- Media contacts
- Environmental interest groups
- Business owners
- Other interested individuals.

## 6.0 Stakeholder Interactions

### 6.1 Tribal Interaction

LM participates and shares information with several tribal stakeholders associated with sites located in the Navajo Nation, including those from the Navajo Nation and Hopi Tribe. The government agencies listed below are consulted on decisions related to the four Navajo Nation sites:

- The Navajo Nation Office of the President and Vice President
- The Navajo Nation Council
- Navajo Abandoned Mine Lands Reclamation/Uranium Mill Tailings Remedial Action (AML/UMTRA) Department
- Navajo Nation Division of Natural Resources Administration
- Navajo Nation Environmental Protection Agency
- Navajo Nation Department of Fish and Wildlife
- Navajo Nation Department of Justice
- Navajo Nation Department of Health
- Indian Health Service
- Navajo Nation Water Code Administration
- Navajo Nation Department of Water Resources
- Navajo Nation Historic Preservation Department
- The Hopi Tribe Office of Mining and Mineral Resources/Uranium Mill Tailings Remedial Action (OMMR/UMTRA)
- The Hopi Tribe Water Resources Program
- BIA
- DOE
- NRC
- U.S. Fish and Wildlife Service

LM has a cooperative agreement with the Navajo Nation Division of Natural Resources AML/UMTRA Department to assist with activities associated with the four UMTRCA Navajo Nation sites. Those activities include reviewing documents, ensuring appropriate physical and administrative controls are in place and are protective, performing administrative functions, assisting with LTS&M functions, and performing public relations activities. LM also has a cooperative agreement with the Hopi Tribe to assist with activities associated with the Tuba City UMTRCA site. Those activities include reviewing documents, monitoring site activities, and performing public relations activities. LM works collaboratively with the Navajo Nation AML/UMTRA Department and the Hopi Tribe on outreach activities. Public relations activities include:

- Cooperating with LM to arrange meetings and hearings
- Assisting with written documents and oral presentations
- Ensuring compliance with applicable Navajo Nation public notice requirements
- Working with LM to identify opportunities for community outreach, education, and communication regarding the Navajo Nation sites
- Providing recommendations to LM on the most effective mechanisms to communicate with host tribal communities
- Participating in community outreach activities in cooperation with LM
- Cooperating with LM in making arrangements for site tours

DOE also recruits Native American college summer interns to assist with research at LM sites. For example, vegetation cover studies were conducted by a Native American intern. LM has supported and will continue to support Navajo and Hopi college students with summer internships at the LM office in Grand Junction, Colorado.

## 6.2 Technical Working Group

LM meets quarterly with a technical working group to discuss progress at the four Navajo Nation sites. The group includes members from the Navajo Nation AML/UMTRA Department and the Hopi Tribe.

The meetings, which are scheduled quarterly and are usually held within the Navajo Nation, provide an opportunity to exchange technical information about groundwater remediation, groundwater monitoring data, surveillance and maintenance, and other technical issues. The meetings also provide opportunities to discuss tribal and community concerns. Past public outreach activities and upcoming outreach initiatives are discussed.

As part of this exchange, documents may be produced that require review and input from several agencies. LM identifies the agency representatives that will have technical input and distributes the documents accordingly.

## 7.0 Interaction with Other Government Agencies

Under UMTRCA, multiple agencies work together to ensure the protection of human health and the environment at the four Navajo Nation sites. DOE is responsible for maintaining the integrity of the disposal cells and for achieving groundwater compliance at the sites. EPA establishes the cleanup standards for contaminated groundwater, as defined in Title 40 *Code of Federal Regulations* (CFR) Part 192. NRC regulates the remediation of legacy sites and licenses DOE (pursuant to 10 CFR 40.27) for the custody and long-term care of residual radioactive materials disposal sites. NRC conducts regulatory oversight of DOE activities at UMTRCA sites, including the four within the Navajo Nation.

NRC's principal responsibility is to provide regulatory oversight of DOE in its role as a general licensee responsible for the long-term care and maintenance of the Navajo Nation UMTRCA sites. The purpose of the general license is to ensure the sites are cared for in a manner that protects public health and safety and the environment. NRC oversees DOE activities at these sites, concurs in remedial action plans, reviews and comments on DOE environmental and performance reports, and conducts DOE inspection oversight activities. The general license

becomes effective when NRC determines surface remediation at the site is complete and when they accept DOE's Long-Term Surveillance Plan (LTSP). At sites where a legacy plume remains, NRC will also concur on DOE's Groundwater Compliance Action Plan (GCAP). The GCAP describes the groundwater compliance strategy for the site and delineates the approach used to address site groundwater issues.

In addition to the government interaction under UMTRCA, LM participates with other government agencies in the implementation of the Navajo Nation Five-Year Plan. LM also provides technical expertise to other agencies, as requested. An important part of the Five-Year Plan is communicating progress with the five other federal agencies and tribal programs. Part of the Five-Year Plan is the Community Outreach Network (Network). The Network coordinates communication and outreach activities with participating Five-Year Plan federal and tribal program and staff. The relevant areas of coordination are related to the four DOE sites within the Navajo Nation, the abandoned uranium mines, and healthcare.

## 8.0 Roles and Responsibilities

LM's mission is to fulfill DOE's post-closure responsibilities at former uranium-ore processing sites and to ensure the protection of human health and the environment. LM's following primary goals are pertinent to this Communications and Outreach Plan:

- Engage the public, governments, and interested parties
- Protect human health and the environment
- Preserve, protect, and share records and information
- Optimize the use of land and assets

LM conducts activities necessary to ensure protection of human health and the environment following completion of remedial actions. These activities include groundwater and surface water monitoring, inspections to evaluate all site conditions, maintenance of site features and structures, operation and maintenance of groundwater remediation systems, recordkeeping, access control, and maintaining physical controls designed to contain or to prevent exposure to residual contamination and waste. LM also has procedures in place to respond to any site emergencies that could potentially occur.

LM ensures that conditions at the four Navajo Nation sites are protective of human health and the environment by:

- Ensuring the sites comply with the standards for public health set by independent agencies, such as the EPA
- Inspecting and maintaining the sites
- Working with the Navajo Nation and Hopi Tribe to establish physical and administrative tools to keep people safe from potential hazards
- Supporting long-term surveillance, operations, and maintenance research to develop innovative methods — such as using plants to remediate contaminated groundwater — and through increasing understanding of the geology, geochemistry, and hydrology of these sites

## 9.0 Public Participation

LM conducts public participation activities in close coordination with the Navajo Nation AML/UMTRA Department and Hopi UMTRA Office to inform the public about LM activities and to provide opportunities for open, ongoing, two-way communication. LM will actively seek, consider, and respond to the views of its tribal stakeholders, ensuring they have an opportunity to provide input to LM's decision-making process.

Informing the public about activities and decisions is an important part of the long-term management of the sites. Stakeholders need to receive timely and accurate information about the sites to know how decisions made by LM and regulators will affect their interests. LM can help keep the public informed by: holding a combination of public meetings, open houses, and small informal meetings with stakeholders; posting information on the LM website; and providing informational materials.

The following public participation techniques are examples of the types of activities LM may use to increase public awareness and understanding of the long-term management of the Navajo Nation sites.

## **9.1 Public Meetings**

Periodic public meetings about the Navajo Nation UMTRA sites may be held at various venues in communities near the sites. Briefings may also be presented as part of other agencies' meetings. Public meetings are one way for LM to engage concerned citizens and to learn what issues and concerns they have about ongoing work at the sites. LM may periodically hold a large public meeting to update the community about site activities and may combine that with a more informal, open house gathering. The meetings provide an opportunity for LM to share the most current information about issues and concerns, which may include:

- Site history
- Site management
- Site issues of concern
- Scientific information
- Sampling, monitoring plans, and results
- Monitoring data
- Roles of other agencies
- Information and reports available to the public

### **9.1.1 Facilitated Meetings/Translators**

Facilitators and/or translators may participate at public meetings to improve communication and understanding of site issues. The facilitator's role is to communicate the purpose of the meeting, the agenda, and any desired outcome from the meeting. The facilitator will also make sure that the meeting stays on topic. Facilitators should incorporate native traditions, language, and plain English into the meeting as a way to enhance public participation.

### **9.1.2 General Open House**

Public meetings may be preceded by an open house before the formal presentation. An open house gives LM staff an opportunity to personally meet stakeholders and address individual issues.

### **9.1.3 Media Open House**

Media open houses sometimes precede a general open house or a public meeting to give the media an opportunity to conduct interviews with LM staff before the general public arrives.

### **9.1.4 Briefings and Small Group Meetings**

LM may periodically hold meetings with small groups of stakeholders and regulators to inform them about the purpose of the LM program and current site activities and to identify and address stakeholder concerns. Small group meetings allow for informal and focused discussions. LM will take into consideration views and recommendations received from participants of the meetings and implement changes as needed.

### 9.1.5 Navajo Nation Council and Chapter House Meetings

There are 110 Chapter houses on the Navajo Nation. Chapter houses are grouped into five agencies: Chinle Agency (14 Chapter houses), Crownpoint/Eastern Agency (31 Chapter houses), Fort Defiance Agency (27 Chapter houses), Shiprock Agency (20 Chapter houses), and the Tuba City/Western Agency (18 Chapter houses).<sup>1</sup> Twenty-four council delegates represent their respective Chapters.<sup>2</sup> Chapter house meetings are well attended by local residents and offer a good opportunity for Navajo AML/UMTRA and LM to present information. Most Chapter houses hold regular meetings every month. Chapter house planning meetings, where the regular meeting agendas are set, are held two weeks prior to the regular meetings.

## 10.0 Educational Outreach Science, Technology, Engineering, and Mathematics (STEM)

An important part of the LM mission is to partner with tribal agencies and schools within the Navajo Nation to promote STEM studies and careers. LM participates in various outreach events coordinated by Navajo AML/UMTRA, Navajo Transitional Energy Company, and Diné College to educate Navajo science students, using hands-on activities that promote STEM learning.

### 10.1.1 Examples of Outreach Events

- American Indian Science and Engineering Society Conference, Denver, Colorado (STEM)
- STEM-sation Day Outreach, Shiprock, New Mexico
- STEM-sation Day Outreach, Tuba City, Arizona
- Diné College 50th Anniversary STEM Fest, Tsaile, Arizona
- Environmental STEM Youth Camp, Tsaile, Arizona
- American Indian Science and Engineering Society Conference, Oklahoma City, Oklahoma (STEM)

### 10.1.2 STEM Education Outreach Materials

LM provides informational materials at STEM outreach events, including:

- Site fact sheets
  - Mexican Hat, Utah, Disposal Site
  - Monument Valley, Utah, Processing Site
  - Shiprock, New Mexico, Disposal Site
  - Tuba City, Arizona, Disposal Site
  - Window Rock, Arizona, Office Fact Sheet
- Community information sheets
  - Mexican Hat, Utah, Disposal Site
  - Monument Valley, Utah, Processing Site
  - Shiprock, New Mexico, Disposal Site
  - Tuba City, Arizona, Disposal Site

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<sup>1</sup> Navajo Nation Chapter Houses, accessed January 8, 2013 ([http://www.lapahie.com/chapter\\_email.cfm](http://www.lapahie.com/chapter_email.cfm))

<sup>2</sup> Navajo Nation Chapters Directory website, accessed January 8, 2013 (<http://www.navajochapters.org/>)

Other STEM Education Outreach Materials:

- Energy Ant coloring book
- LM Sites on Navajo Nation Land brochure
- Uranium and Radiation on the Navajo Nation Agency Resource List
- Window Rock, Arizona, Outreach Office Map
- Working with the Navajo Nation fact sheet
- LM Childrens Brochure

## 10.2 LM Website

Site-related documents, technical data, institutional control information (physical and administrative controls), fact sheets, presentations, meeting announcements, and general program information are available on the LM website at <http://energy.gov/lm>. This website includes interactive mapping software that makes all site data available to stakeholders and members of the public.

The URLs for the four sites are:

[http://www.lm.doe.gov/mexican\\_hat/Sites.aspx](http://www.lm.doe.gov/mexican_hat/Sites.aspx) (Mexican Hat)

<http://www.lm.doe.gov/monvalley/Sites.aspx> (Monument Valley)

<http://www.lm.doe.gov/shiprock/Sites.aspx> (Shiprock)

<http://www.lm.doe.gov/tuba/Sites.aspx> (Tuba City).

## 10.3 Informational and Outreach Materials

LM develops various materials to provide information about site activities and projects. Graphics and photographs are included in the informational materials to convey complex information. Certain information, such as public meeting notices and flyers, may be translated into Navajo and Hopi languages, as requested.

### 10.3.1 Fact Sheets

To help inform the public about the Navajo Nation sites, the following fact sheets are available or will be developed:

- *Site Fact Sheets*: Each of the site fact sheets describes the history, background, regulatory setting, site conditions, compliance strategy, institutional controls, disposal cell design, hydrological clean-up activities, LM activities, and contact information.
- *Community Site Fact Sheets*: Community site fact sheets are easier for the general public to understand, as they are written in simpler language with less technical detail. Graphics and photographs are also used to convey complex information.
- *UMTRCA Fact Sheets*: These fact sheets provide information about UMTRCA and the Title I and Title II sites.

Other fact sheets targeted for community members from various backgrounds may be developed, as needed. For example, fact sheets can be developed on topics of special interest to the community. Fact sheets are made available to the public at meetings and on the LM website.

### 10.3.2 News Releases

LM may issue news releases to announce public meetings, provide updated information on a site, or announce other newsworthy events. News releases will be distributed to targeted news media and other stakeholders and will be posted on the LM website.

### **10.3.3 Display Ads and Articles**

Display ads will be prepared, as needed, and placed in local print media to announce public meetings and other special events. Periodically, an article to update the site status may be submitted to the local media for public dissemination.

### **10.3.4 Flyers**

Flyers announcing public meetings and other special events may be prepared and distributed through local Chapter houses, Hopi Moenkopi villages, and other community locations. These may be translated into the Navajo and Hopi languages, as requested.

### **10.3.5 Posters**

Posters announcing public meetings and other special events for explaining site activities may be prepared and displayed at local Chapter houses, Hopi Moenkopi villages, and other community locations. LM also plans to develop new visual materials to increase stakeholder understanding of LM activities and technical information.

### **10.3.6 Meeting Notices**

Notices announcing public meetings and other special events may be prepared and distributed to stakeholders through mail and by email, and posting at local civic buildings and businesses.

## **10.4 Site Tours**

LM may conduct general site tours as part of a meeting, or more specific site tours to educate stakeholders about site activities or events.

## **10.5 Evaluation of Public Participation Activities**

LM will consider the views and recommendations of stakeholders when assessing the effectiveness of public participation activities and will implement changes as needed. The following information will be considered when LM evaluates public participation effectiveness:

- Evaluation forms distributed at meetings and events
- Survey results
- Informal interviews with stakeholders
- Comments received from government agencies and stakeholders

## **11.0 Media Relations**

Many local residents receive their news through traditional media outlets. LM fosters positive, productive relationships with members of the media in an effort to inform the community about work being conducted at the LM sites. LM takes a proactive approach to media relations by suggesting article ideas to reporters, providing background information, and having expert sources available for interviews.

### **11.1 Online Media Information**

LM develops and maintains productive relationships by providing honest, accurate, and timely information to reporters. Plans are currently underway to include media pages on the LM website to help members of the media gather information. The online media pages will include fact sheets, frequently asked questions, photographs, links, and contact information.

## 11.2 Media Outlets

### 11.2.1 Newspapers

Several newspapers report Navajo and Hopi news, including the *Navajo Times*, the *Navajo-Hopi Observer*, the *Hopi Tutuveni*, the *Navajo Post*, the *Farmington Daily Times*, and the *Gallup Independent*. LM will distribute news releases, display ads, and submit articles for publication through the local newspapers.

### 11.2.2 Radio

Several radio stations that broadcast within the Navajo Nation include broadcasts in the Navajo language. LM could use radio to announce public meetings, in English and native languages, or to communicate about site activities that may be of concern to local residents.

The Navajo Nation Office of Broadcast Services provides production services and educational and public information programming to listeners in the Navajo Nation through several local radio stations. According to their website, they provide Navajo language programming and networking with the following regional radio stations:

- KABR: Alamo, New Mexico
- KTDB: Pine Hill, New Mexico
- KGLP: Gallup, New Mexico
- KYAT: Gallup, New Mexico
- KHAC: Tse Bonito, New Mexico
- KWIM: Tse Bonito, New Mexico
- KTBA: Tuba City, Arizona
- KUYI: Kykotsmovi, Arizona
- KRMH: Red Mesa, Arizona

KTNN-AM/FM is a Navajo Nation radio station that provides news and information in English and Navajo. They broadcast public service announcements, including Chapter meeting updates, a weekly Navajo Nation presidential address, and a speaker of the Navajo Nation Council address. KNDN-AM in Farmington, New Mexico, also provides English and Navajo language broadcasts.

KUYI-FM is a Hopi radio station that provides local and national news in English and Hopi. They broadcast public service announcements, including public meetings, and interviews with Tribal Council and village officials. Listeners include surrounding Navajo Nation chapters.

## 12.0 Stakeholder Contacts Database

LM maintains a database of contact information for stakeholders associated with each site and maintains specific stakeholder lists for the Navajo Nation sites (Appendix A is a list of the key stakeholders for the Navajo Nation sites). LM uses this information to contact stakeholders and to distribute information about the LM program and site activities. The database is updated periodically when new stakeholders are identified or new contact information is received.

## 13.0 References

DOE Policy 141.2. *Public Participation and Community Relations*, May 7, 2003.

DOE Order 144.1 *Department of Energy American Indian Tribal Government Interactions and Policy*, January 16, 2009.

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## **Appendix A**

### **Navajo Nation Sites Key Stakeholders**

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**Audio (continued)**

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