



**NEVADA TEST AND TRAINING RANGE (NTTR)
Land Withdrawal Application Packages/
Case File and Legislative EIS**

**CONTAMINATION ANALYSIS
OF THE
NEVADA TEST AND TRAINING RANGE**

**FINAL
April 2017**

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APRIL 2017

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ACRONYMS

ACC	Air Combat Command
AEC	Atomic Energy Commission
AFB	Air Force Base
AFFF	Aqueous Film-Forming Foam
AFI	Air Force Instruction
AOC	Area of Concern
ARCD	Annual Report of Continuing Decontamination
AST	Aboveground Storage Tank
BLM	Bureau of Land Management
CAS	Corrective Action Site
CAU	Corrective Action Unit
CEIE	Civil Engineers Installation Environmental
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CES	Civil Engineering Squadron
DNT	2,6-dinitrotolulene
DNWR	Desert National Wildlife Range
DoD	Department of Defense
DOE	Department of Energy
DOI	Department of the Interior
DOPAA	Description of Proposed Action and Alternatives
DRI	Desert Research Institute
DU	Depleted Uranium
ECR	Electronic Combat Range
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-know Act
ERP	Environmental Restoration Program
FFACO	Federal Facility Agreement and Consent Order
FLPMA	Federal Land Policy and Management Act
GIS	Geographic Information Systems
IRP	Installation Restoration Program
ISWM	Integrated Solid Waste Management
LEIS	Legislative Environmental Impact Statement
MLWA	Military Land Withdrawal Act
MOU	Memorandum of Understanding
MRTFB	Major Range and Test Facility Base
NAC	Nevada Administrative Code
NAFB	Nellis Air Force Base
NDEP	Nevada Division of Environmental Protection
NEPA	National Environmental Policy Act
NFA	No Further Action
NNSA	National Nuclear Security Administration

ACRONYMS (continued)

NPDES	National Pollution Discharge Elimination System
NRC	Nuclear Regulatory Commission
NTS	Nevada Test Site
NTTR	Nevada Test and Training Range
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
PFC	Perfluorinated compound
PLSS	Public Land Survey System
POLs	Petroleum, oils, lubricants
RCRA	Resource Conservation and Recovery Act
RDX	Cyclonite
RSLs	Regional Screening Levels
SAFER	Streamlined Approach for Environmental Restoration
SBCC	S&B Christ Consulting
SWPPP	Storm Water Pollution Prevention Plan
TAAA	Tonopah Airfield Auxiliary Annex
TECR	Tonopah Electronic Combat Range
TNT	Trinitrotoluene
TPECR	Tolicha Peak Electronic Combat Range
TPH	Total Petroleum Hydrocarbons
TTR	Tonopah Test Range
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USFWS	United States Fish and Wildlife Services
UST	Underground Storage Tank
UXO	Unexploded Ordnance

CHAPTER 1 - EXECUTIVE SUMMARY

The U.S. Air Force (USAF) is in the process of extending the withdrawal of land for military operations and training on the Nevada Test and Training Range (NTTR). In addition to extending the current withdrawal, the Air Force is evaluating several potential expansion alternatives. These potential expansion alternatives are pre-decisional in nature when evaluated in the context of the National Environmental Policy Act (NEPA). The current withdrawal will expire in November 6, 2021, unless Congress enacts legislation to extend it. In accordance with Section 3016 of the Military Land Withdrawal Act (MLWA), the USAF, in coordination with the Department of Defense (DoD), has notified Congress of a continuing military need for the NTTR withdrawal. Furthermore, the Air Force plans to submit a Legislative Environmental Impact Statement (LEIS) that supports a legislative withdrawal proposal, which will be submitted through the Department of the Interior (DOI) to extend the withdrawal.

As part of the land withdrawal extension, the Air Force is preparing documentation required to support the Application Package, Case File, and legislative language to successfully accomplish the NTTR land withdrawal by November 2021. To maintain critical test and training capabilities at the NTTR, the Air Force must complete all required studies in compliance with NEPA, the Engle Act, Federal Land Policy and Management Act, the MLWA, and Land Withdrawals regulations set forth in Title 43 Code of Federal Regulations (CFR) Part 2300. The analysis and results of the Contamination Report are needed in order to support the NEPA and Land Withdrawals regulations and support submittal of an application to the Bureau of Land Management (BLM), provision of a Case File to the DOI, and development of draft legislation for Congressional approval of the withdrawal in accordance with applicable rules and regulations.

This report compiles information to summarize historic, existing, future, and cumulative contamination conditions within existing withdrawn lands and to evaluate contamination within proposed alternatives for expansion areas. Information was collected from a variety of sources including governmental, regulatory, public, and private organizations. The information gathered includes assessment reports, special studies, public records, status reports, management plans, policies, and data relevant to contamination issues within the proposed NTTR withdrawal extension and expansion areas. No site investigations or visits were performed in the course of preparing this document.

Contamination within the NTTR is organized into three major categories to facilitate impact evaluation. These contaminant types are:

- Operations and Maintenance (O&M) materials;
- Ordnance and;
- Radiological materials.

Each category and associated contamination is subject to its own unique regulatory policies, practices, and management plans, and fall under the jurisdiction of multiple agencies.

O&M materials include all potential sources of contamination associated with running an industrial facility and captures sources of contamination other than ordnance and radiation. The NTTR includes multiple industrial facilities including: Creech Air Force Base (AFB), Tonopah Test Range (TTR) Industrial Complex, TTR Mancamp, Tolicha Peak Electronic Combat Range (TPECR), Cedar Pass, TTR O&M Compound, and Point Bravo. O&M materials and their associated waste streams are handled under management plans that are prepared in response to Federal, State, and Local laws as well as USAF regulations as applicable.

Ordnance contamination includes unexploded ordnance, expended ordnance (unexploded ordnance), explosive residue, target debris and residue, and munitions constituent contaminated soil. This category represents the majority of contamination within the NTTR per a decontamination estimate performed by Bay West in 2009. Common practice prior to 1975 was to bury munitions onsite in pits near the target

areas. Target sites are now routinely swept and made safe under the Coronet Clean policy. Open burn/open detonation areas for the burning or demolition of small ordnance was also performed. The munitions waste from clean-up activities is managed in accordance with existing management programs. An assessment from 2015 revealed a strong potential for munitions constituents to migrate off-range via soil transported during storm events, surface water/sediment, and groundwater. However, the levels of munitions constituents identified were not found to pose an unacceptable risk to the environment or human health. The levels of munitions constituents are below Environmental Protection Agency (EPA) acceptable daily intake levels and health advisories. The report recommends further investigation to make the determination regarding an appropriate response with a plan for follow-on efforts (EA Engineering, Science, and Technology, Inc., PBC 2015).

Radiological materials fall into two subcategories; Depleted Uranium (DU) munitions that are managed by the USAF and licensed by the Nuclear Regulatory Commission (NRC) and; legacy nuclear testing sites that are managed by the Department of Energy (DOE), who maintains responsibility for these areas through a Memorandum of Understanding (MOU).

DU targets are regularly cleaned in accordance with established management plans. Per the most recent studies available, DU particles and oxides do not appear to be migrating off the licensed area by soil or surface water transport but remain in surface soils radially from target areas (DRI 2010).

Legacy nuclear testing sites managed by the DOE are primarily located within DOE withdrawn lands adjacent to the NTTR. However, seven legacy nuclear testing sites are relevant to the NTTR through this scope of work. The DOE manages their contaminated sites as Corrective Action Sites (CASs) grouped into Corrective Actions Units (CAUs). CASs may consist of a variety of sites (landfills, mud pits, leach fields, etc.) with or without radiological contamination. The DOE is responsible for assessing and remediating contamination resulting from DOE operations through an MOU and under a Federal Facility Agreement Consent Order (FFACO) issued by the state of Nevada.

To manage the remediation of USAF attributable environmental contamination, the Environmental Restoration Program (ERP) was developed to address releases of hazardous substances, pollutants or contaminants within the NTTR boundary. The ERP includes ninety-eight (98) contaminated sites, all of which were issued decision documents by the Nevada Division of Environmental Protection (NDEP) by 2007 (USACE 2007). As of fiscal year 2015, there were no ERP sites on the NTTR requiring further investigation or remediation and there were no immediate plans for further corrective action (USAF 1999-2016). However, emerging contaminants recently identified by the EPA may compel further investigation at former fire training areas and other sites where fire suppression by aqueous film forming foam has been used.

Areas of Concerns (AOC) were assessed in 2003 to recommend sites for either No Further Action (NFA) or further action under the ERP (USAF 2003). The report summary states that 34 of the AOC sites are also ERP sites. However, per the individual site descriptions from the same report, only 18 AOC sites are designated as former or current ERP sites. The 73 AOC sites assessed in 2003 were concluded to not be a threat to human health as of fiscal year 2006 per the issuance of NDEP decision documents for "No Further Action" (USAF 1999-2016).

In evaluating the potential for environmental contamination, four alternatives have been proposed. The following summarizes the alternatives evaluated and the anticipated impact.

Alternative 1 extends the existing land withdrawal and management of NTTR without change to the boundary. Current activities would continue, management responsibilities would remain unchanged and industrial facilities would remain active. Existing contaminated sites would remain withdrawn from public access due to the continuance of the mission and the potential for contamination would likely continue in kind with current trends of usage and management. The concentration of contamination from DU and ordnance would be expected to increase with the continued use of live munitions. There also remains the continued possibility of O&M related contamination in the form of unintended release events. Nuclear

testing is no longer conducted at the NNSS or NTTR and therefore radiological contamination attributed to DOE activities on the NTTR would be expected to decrease with time.

Alternative 2 extends the existing land withdrawal and provides ready access in the North and South Range. There would be no changes to the current NTTR boundary. Ready access may be implemented through a combination of methods including: removal of the Proposed Wilderness designation that overlaps into the South Range; reallocating primary jurisdiction from US Fish and Wildlife Services (USFWS) to the USAF; development of a binding MOU; and enactment of legislative provisions and management under the Sikes Act. It should be noted that ready access does not mean exemption from applicable laws and regulations that are not specifically addressed by legislation supporting the withdrawal.

Existing contaminated sites would remain withdrawn from public access. Current activities would continue and industrial facilities would remain active. These expanded areas would see the same risk of contamination as other areas with similar use. Contamination from DU and ordnance in this area would be expected to increase alongside the NTTR with the continued use of live munitions. There also remains the continued possibility of O&M related contamination in the form of unintended release events and aircraft mishaps.

Alternative 3 includes the currently withdrawn area as described in Alternatives 1 or 2 above and include three (3) options for expansion areas to fulfill increased operational and safety needs. These three options include: Alternative 3A: Range 77 – EC South Withdrawal; Alternative 3B: Range 64 C/D and 65D Withdrawal and Administrative Incorporation; and Alternative 3C: Alamo Withdrawal.

Alternative 3A proposes to increase the NTTR boundary by approximately 18,000 acres of land to add a safety and security buffer to the footprint of the EC South (ECS) area and the entirety would be re-designated as “Range 77” to allow full air-to-ground operations. There would be no construction disturbance or munitions use in this additional area proposed for acquisition. The additional land would serve as a safety buffer for live weapons deployment on the interior of Range 77. Increases in the potential for contamination may occur from malfunctioning ordnance arriving in the safety buffer.

Alternative 3B proposes to withdraw approximately 57,000 acres of land located along the southern border of the NTTR. This additional land would improve the NTTR operational security and safety buffers to decrease the potential for unauthorized access from the public. O&M, ordnance and DU related activities are not anticipated in these areas. Because no new mission related activities are planned for this area, an increase in the potential for contamination would not be anticipated.

Alternative 3C proposes to withdraw 227,000 acres of the DNWR to provide expanded training opportunities in the South Range. The area would correspond with potential weapons safety footprints and serve as a safety buffer for live weapons deployment. The USAF would like to develop potential insertion points that would include one runway that would be a mockup location to provide special operations personnel a location to practice tactics, while a second runway would serve as an active runway, providing more realistic insertion training. Each runway would be 6,000 feet long and 90 feet wide. It is anticipated that ground disturbance activities associated with construction of the runways would be less than 13 acres. This additional area would be controlled for safety purposes but is not planned to be used for target impact areas. Solidified plans of installation activities are not known for specific areas within this proposed expansion area and it was assumed for purposes of this report that disturbance would be limited to possible construction sites, associated O&M materials, but no ordnance or radiation related activities. It is anticipated that further NEPA-related environmental analysis will be necessary for future development as proposed activities within this area are evaluated.

Alternative 4 includes the currently withdrawn area as described in Alternatives 1, 2, and/or 3 above, plus three options for the length of the proposed withdrawal renewal period. These three options include: Alternative 4A: 20-Year Withdrawal Period, Alternative 4B: 50-Year Withdrawal Period and Alternative 4C: Indefinite Withdrawal Period.

Alternative 4A proposes to establish the length of time in which the withdrawal would be active to be a period of 20 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would continue to have similar impacts on contamination as currently exists under the standard withdrawal period of 20 years.

Alternative 4B proposes to establish the length of time in which the withdrawal would be active to be a period of 50 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would not have an impact on contamination associated with withdrawn lands. The identified impacts implemented with the other associated alternatives would apply, but as the duration of the activity increased, the potential for contamination would increase, particularly with respect to ordnance and DU contamination.

Alternative 4C proposes to establish the length of time in which the withdrawal would be active to be indefinite. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would not have an impact on contamination associated with withdrawn lands. The identified impacts implemented with the other associated alternatives would apply, but as the duration of the activity increased, the potential for contamination would increase as a result of the increased duration of those activities. Adherence to environmental policy is still required in the absence of the withdrawal process, and it would be recommended to assess the extent of contamination at periodic intervals.

The final alternative evaluated was the No Action Alternative. The No Action Alternative would allow the current withdrawal of NTTR lands to expire at the end of November 2021 and the withdrawn land would return to the Department of Interior (DOI). The DOI would be responsible for managing the land for public use and the USAF and DOE would no longer be able to use the land for training or testing purposes. Because this alternative would end USAF mission related activities, the potential for future contamination would reduce. However, many sites that currently require remediation or were remediated to a level acceptable for restricted access may require further site investigation and remediation. The areas that would likely require restricted access and remediation include the munitions, DU, and DOE radiation contaminated sites.

CHAPTER 2 - INTRODUCTION

2.1 NEVADA TEST AND TRAINING RANGE

The NTTR is part of the USAF's Major Range and Test Facility Base (MRTFB) enterprise. MRTFB ranges encompass the largest, most fully equipped ranges that are designed to test and evaluate capabilities to support DoD acquisition systems and combat readiness.

The NTTR is the largest contiguous air and ground space available for peacetime military operations in the free world. The range occupies 2.9 million acres of land, 5,000 square miles of airspace restricted from civilian air traffic and another 7,000 square miles of military operations area that is shared with civilian aircraft. The 12,000-square nautical mile range provides a realistic arena for operational testing and training aircrews to improve combat readiness. A wide variety of live munitions can be employed on targets located on the range.

2.2 PURPOSE OF THE STUDY

This contamination report was developed for the USAF by S&B Christ Consulting (SBCC) under contract with Leidos, Inc. (contract no. W9126G-14-D-0014, subcontract PO10177023) to evaluate existing and potential contamination in support of the Land Withdrawal Case File and LEIS addressing options for the NTTR Land Withdrawal.

This report documents information available at the time this report was prepared regarding contamination issues within the NTTR to fulfill the documentation requirements for compliance with the Military Lands Withdrawal Act of 1999 (MLWA), Public Law 106-65. This report compiles information to summarize historic, existing, future, and cumulative contamination conditions within existing withdrawn lands and to evaluate contamination within proposed alternatives for expansion areas. Information sources and project approach are discussed in the following section.

The report further fulfills the documentation requirements for compliance with the following regulatory acts:

- **National Environmental Policy Act of 1969 (NEPA)**; 42 United States Code [USC] Sections 4321-4370h (NEPA); requires agencies to include an environmental impact statement (EIS) with any proposal for legislation significantly affecting the quality of the human environment.
- **The Engle Act of 1958**; Requires that withdrawals, reservations, or restrictions of more than five-thousand acres of public lands of the United States for certain purposes shall not become effective until approved by an Act of Congress.
- **Federal Land Policy and Management Act (FLMPA)**; Establishes guidelines for the administration, management, protection, development, and enhancement of the public lands.

The area composing the NTTR is public land withdrawn from the DOI, which specifically includes BLM in the North Range and USFWS in the South Range. The core set of restricted lands under NTTR management was originally withdrawn in 1940 and requires periodic renewal. The most recent renewal for NTTR land withdrawal was authorized by Public Law 106-65 (National Defense Authorization Act of fiscal year 2000) in 1999 and expires in November 2021.

The current withdrawn land (**Figure 2-1**) encompasses MOUs with other agencies that share management and use of specific areas of the NTTR. The USAF is the lead agency for the LEIS, while the BLM, DOE, which includes the Nevada National Security Site (NNSS) and the National Nuclear Security Administration (NNSA), the USFWS, and the Nevada Department of Wildlife are cooperating agencies.

The USAF, in recognition of the potential impacts to other stakeholders, has had dialogue with the appropriate Nevada state agencies, local counties, and cities. The USAF also conducted government-to-government consultation with federally recognized tribes that may be impacted by the withdrawal. The LEIS is the detailed environmental statement required by law and is supported by several specific case files, including this contamination report.

2.3 INFORMATION SOURCES AND PROJECT APPROACH

In developing this case file to support the LEIS for the NTTR, information was collected from a variety of sources. A few key resources provided the foundation for the contamination analysis due to their comprehensive approach, significance, and prevalence in continuing support and cataloging literature. These resources were substantiated and validated by other sources, including pertinent literature and database reviews. These key information sources in chronological order are as follows:

1996 Federal Facility and Agreement Consent Order

NDEP, DOE and the DoD entered into an agreement May 10, 1999 to address the historic contamination from DOE testing activities. The FFACO outlined a corrective action strategy to identify sites with contamination, conduct investigations of these sites, and implement corrective actions under the regulatory authority and oversight of NDEP. Status and activities for these sites are updated quarterly.

1999-2015 Annual Report of Continuing Decontamination

Provisions of the MLWA require that the Secretary of the military department concerned, to the extent of funds available, maintain an on-going program of decontamination. The report includes annual descriptions of the decontamination efforts undertaken during the previous fiscal year and activities proposed for the next fiscal year.

2003 Preliminary Assessment Report, Nellis Air Force Base, Nevada Test and Training Range, Areas of Concern, Project No. RKXF20017021

The purpose of this preliminary assessment was to determine the potential for environmental contamination at 73 AOC sites within the NTTR. The AOC sites consist of dormant target sites; munitions and target debris piles; known or possible disposal pits that may contain target debris, munitions debris and/or construction debris; potential open burn/open detonation areas; and aircraft crash sites.

2007 Environmental Restoration Program

The DoD developed the Environmental Restoration Program (ERP), formerly the Installation Restoration Program (IRP), to identify and investigate potentially hazardous material disposal sites on DoD property. A report detailing the nature and status of the ninety-eight (98) sites was released in 2007 (USACE 2007).

2009 NTTR Decontamination Estimate

The preliminary assessment provides a quantity estimate of the solid, hazardous, and radiological contamination present on the NTTR, as well as munitions related sources on the NTTR.

2010 Potential Surface Water Transport of Depleted Uranium and DU Oxides on the NTTR

The Desert Research Institute (DRI) was contracted to develop a surface water flow and transport model for the Lower Three Lakes Valley watershed containing the DU-Licensed Area to predict the path of possible migration of DU particles and DU oxides (March 2010).

2015 Final Operational Range Assessment Phase I Qualitative Assessment, Phase I Qualitative Assessment Update and Phase II Quantitative Assessment Update for Nellis Air Force Base [includes the NTTR], Nevada

The USAF conducts assessments for all operational test and training areas to evaluate whether there is the potential for munitions constituents to migrate from an operational range to off-range areas; and assess if there is a potentially unacceptable risk to human health or the environment due to off-range munitions contamination migration. The Phase I process includes review of existing information and the Phase II process consists of collecting new information from sampling. An update to Phase I and Phase II assessments were reported for the NTTR. An initial Phase I and a Phase I Update for two (2) other Nellis Air Force Base (NAFB) areas were also included in the report (May 2015).

2016 Office of Scientific and Technical Information

The online database maintains a record of site specific reports regarding the DOE's CAU sites on the NTTR.

2016 Nevada Division of Environmental Protection

The state maintains records of releases of reportable conditions; maintains updates to the FFAO; issues landfill and wastewater permits; and maintains records of federally regulated USTs.

The previous contamination analysis report was used to establish baseline conditions and as one of many reference documents regarding historical use and management of the NTTR (United States Air Force 1997).

Other sources include governmental, regulatory, public, and private organizations. The information gathered includes assessment reports, special studies, public records, status reports, management plans, policies, and data relevant to contamination issues within the proposed NTTR withdrawal extension and expansion areas.

Information was acquired by coordinating with the USAF, NDEP, DOE, USFWS, and Leidos personnel. Online databases for these and other agencies, such as the EPA and US Geological Survey, were searched for pertinent information.

Sources are cited throughout the document and a list of individual resources and literature is included in the bibliography. Discrepancies across documentation are also noted where applicable. No site investigations or visits were performed in the course of preparing this document.

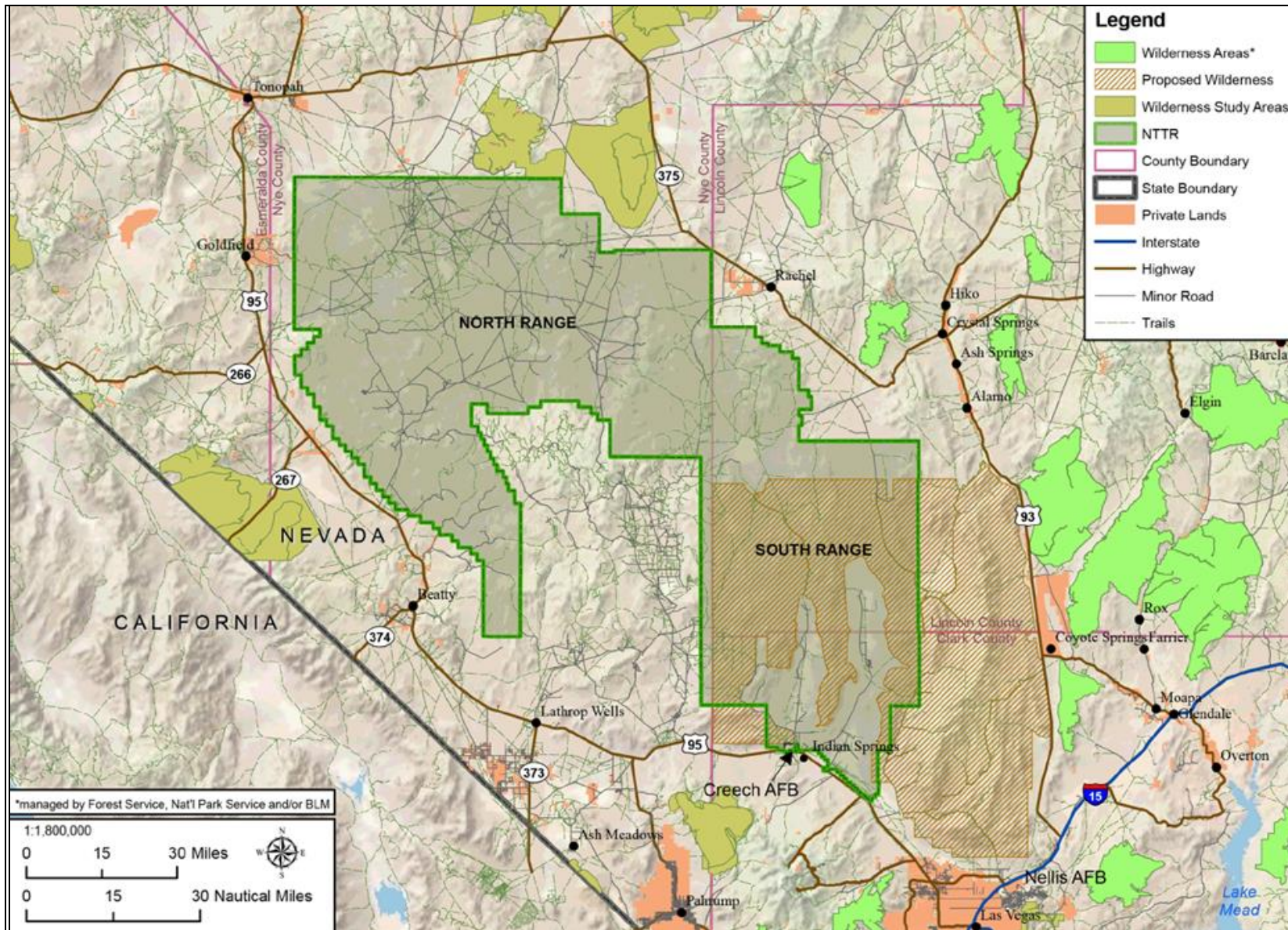


Figure 2-1 The Nevada Test and Training Range (Leidos 2016)

CHAPTER 3 - SITE DESCRIPTION

The NTTR is located in southeastern Nevada and comprises approximately 2.9 million acres of land (approximately 4,500 square miles). The NTTR is located in the Great Basin Desert with southern portions in the Mojave Desert. The landscape consists of numerous small alluvial-filled valleys bound by north-south trending mountain ranges. The area has low precipitation and high evaporation. Groundwater beneath the NTTR varies from a few feet to over 1,000 feet below the surface with an average depth of over 200 feet below the ground surface.

The NTTR is split into the North and South Ranges to facilitate overall management of USAF operations and test and training opportunities on the range. **Figure 2-1** and **Figure 3-1** illustrate the North and South Ranges with the division occurring around Range 4808A. Air Force management responsibilities include personnel safety, the ranges' electromagnetic environment, range equipment operation and maintenance, and efficient airspace use through effective scheduling. The USAF has developed other infrastructure to support its use of NTTR withdrawn lands. The major industrial facilities include Creech AFB, TTR Industrial Complex, TTR Mancamp, TPECR, Cedar Pass, O&M Compound, and Point Bravo. Other structures include roads, radar sites, targets, communication systems, and range electronic measuring devices.

In addition to currently withdrawn areas, the USAF proposes to expand the land boundary in the southwestern portion of the North Range (Range 77 – EC South Land Withdrawal), the eastern portion of the South Range (Alamo Withdrawal) and the southern portion of the South Range (64C/D and 65D Withdrawal and Administrative Incorporation). These areas are further discussed in the Expansion Areas portion of this chapter.

3.1 CURRENT WITHDRAWN AREA

The North and South Ranges of the NTTR are further subdivided into smaller ranges (**Figure 3-1**). This section discusses the major range operations within the North and South Ranges. The current DOE operational areas and Range 4808A is outside the scope of this document and has therefore been excluded from analysis.

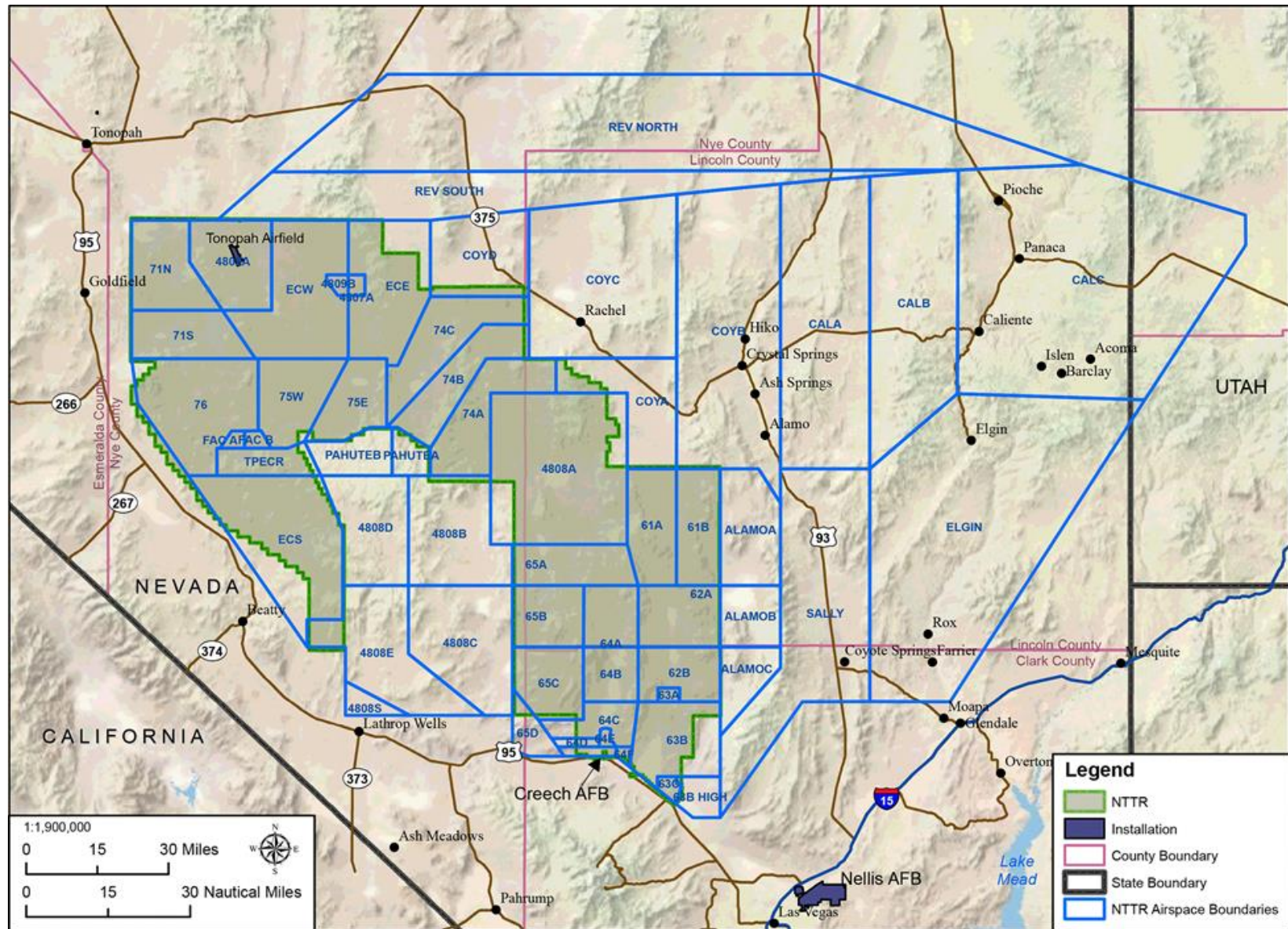


Figure 3-1 NTTR Land and Airspace Boundaries and Designations (Leidos 2016)

3.1.1 NORTH RANGE

The North Range includes approximately 1.8 million acres of withdrawn land and contains three (3) Electronic Combat Ranges (ECRs): Tonopah ECR (TECR), Tolicha Peak ECR (TPECR), and Electronic Combat South Range (EC South). The North Range includes the Tonopah Test Range (TTR), TTR Mancamp, and Cedar Pass. The following descriptions include area measurements derived from the Geographic Information Systems (GIS) shapefiles of the airspace ranges.

Tonopah Electronic Combat Range (TECR)

The TECR is comprised of two electronic combat ranges, EC East and EC West, for a total of 370,000 acres (580 square miles). These are located along the north boundary of the NTTR and this range includes the O&M compound. This includes Ranges 4809B and 4807A.

Tolicha Peak Electronic Combat Range (TPECR)

The Tolicha Peak Electronic Combat Range is a 49,000 acre (80 square miles) area located in the southwestern portion of the North Range, approximately 30 miles north of Beatty, Nevada. A permanently manned compound within the TPECR property provides support for activities in the North Range.

Electronic Combat South Range (EC South)

The Electronic Combat South Range (EC South) is a 205,000 acre (320 square miles) area located along US Highway 95 in the southern portion of the North Range.

Tonopah Test Range (TTR)

The Tonopah Test Range (TTR) consists of approximately 179,200 acres (280 square miles) of withdrawn land managed by the USAF and also includes land permitted to the DOE/NNSA. TTR contains an industrial complex operated by the USAF and a complex operated for the DOE/NNSA by Sandia Corporation, a wholly owned subsidiary of the Lockheed Martin Corporation and is part of Sandia National Laboratories (SNL). TTR is located approximately 32 miles southeast of Tonopah, NV and about 200 miles north of Las Vegas, NV within the boundaries of the NTTR. This includes Range 4809A.

TTR Mancamp

Mancamp is a lodging complex consisting of several dormitories, and recreation and fitness facilities.

3.1.2 SOUTH RANGE

The South Range is approximately 1.2 million acres of withdrawn land located in the southeastern portion of the NTTR and contains Creech AFB and Point Bravo. The South Range overlaps a portion of the DNWR. DOE lands segregated by PLO 1662 are adjacent to the northwest corner of the South Range.

Creech Air Force Base (Creech AFB)

Creech AFB is located at the southern end of Indian Springs Valley, approximately 40 miles northwest of NAFB. It was originally known as Indian Springs Airport and later the Indian Springs Air Force Auxiliary Field. Creech AFB engages in daily overseas contingency operations as the home base of remotely piloted aircraft systems. Various squadrons also provide critical support functions including base security, civil engineer capabilities, force support, logistics readiness, communications, and medical support (USAF 2014).

Point Bravo

The Point Bravo compound is located along US Highway 95, approximately 6.5 miles southeast of Creech AFB and serves as the primary entry point for the Southern Ranges.

Range 63C

Range 63C, formerly the Silver Flag Alpha (SFA) compound, is located along US Highway 95 approximately eight miles southeast of Point Bravo and had been used for small arms weapons training.

3.2 EXPANSION AREAS

The USAF is proposing multiple alternatives as outlined in the LEIS. These alternatives were used in preparing this report and are summarized from the Description of Proposed Action and Alternatives (DOPAA) document dated August 2016 (Leidos, Inc. 2016). The alternatives being considered include:

Alt 1	Extend Existing Land Withdrawal and Management of NTTR (North and South Range) – Status Quo
Alt 2	Extend Existing Land Withdrawal and Provide Ready Access in the North and South Ranges
Alt 3	Expand Withdrawal of Public Lands for the NTTR This alternative includes the currently withdrawn area as described in Alternatives 1 or 2 above, plus three options for additional land withdrawal to fulfill increased operational and safety needs. These three options include:
Alt 3A	Range 77 – EC South Withdrawal
Alt 3B	64C/D and 65D Withdrawal and Administrative Incorporation
Alt 3C	Alamo Withdrawal
Alt 4	Establish the Period of Withdrawal This alternative is an administrative action and does not include the withdrawal of any additional land and is limited to extending the land withdrawal timeframe per one of the following three options. This option cannot be implemented alone and must be paired with one or more of the aforementioned alternatives or sub-alternatives.
Alt 4A	20-Year Withdrawal Period
Alt 4B	50-Year Withdrawal Period
Alt 4C	Indefinite Withdrawal Period
No-Action	No-Action Alternative

The following provides additional detail regarding each alternative. Any additional expansion areas incorporated into the NTTR would be subject to the same regulations, policies, and management and response plans as the current and future NTTR. The historical sources of contamination, existing contamination, estimated future impacts, and cumulative impacts are addressed later in this report. See **Figure 3-2** for locations and details of the proposed expansion areas.

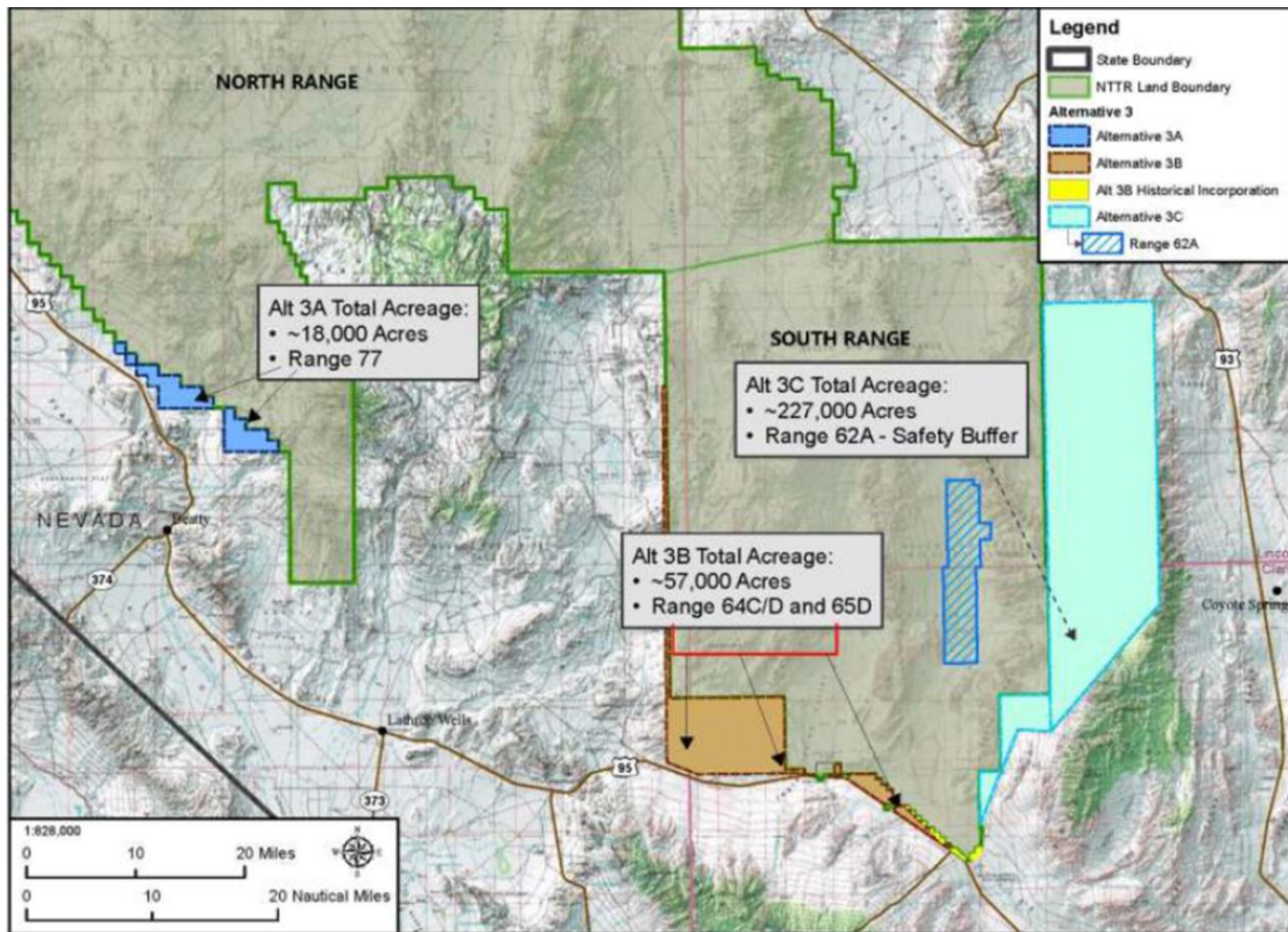


Figure 3-2 Proposed Withdrawal Areas (Leidos, Inc. 2016)

3.2.1 ALTERNATIVE 1: EXTEND EXISTING LAND WITHDRAWAL AND MANAGEMENT OF NTTR (NORTH AND SOUTH RANGE)

Under Alternative 1, there would be no changes to the current NTTR boundary or the USAF mission. Current activities would continue, management responsibilities would remain unchanged and industrial facilities would remain active.

3.2.2 ALTERNATIVE 2: EXTEND EXISTING LAND WITHDRAWAL AND PROVIDE READY ACCESS IN THE NORTH AND SOUTH RANGES

Under Alternative 2, there would be no changes to the current NTTR boundary. However, the USAF would ensure ready access to both the North and South Ranges to improve mission capabilities. Ready access consists of the following factors (Leidos, Inc. 2016):

- Adequacy – the complete ability to fully utilize all of the withdrawn land and its many features to meet NTTR mission requirements
- Flexibility – sufficiently permissive and cooperative management under applicable regulatory standards that allows the DoD and supported agencies to meet mission requirements
- Timeliness – the ability to conduct mission activities in a time-sensitive manner relative to National Security timelines, including short-notice, urgent missions, following established measures for expediting any necessary coordination
- Variability – the ability to adjust testing and training activities over time, including realignment of sites on lands withdrawn for the NTTR and varying uses of such lands to meet DoD and supported agencies' mission requirements

Ready access can be implemented through a combination of methods included below:

- Removing the Proposed Wilderness designation for areas within the current and future boundaries of the NTTR;
- Reallocating primary jurisdiction from the USFWS to the USAF for portions or all of the overlapping wilderness designated area;
- Development of a binding MOU granting ready access to the DoD and establishing written access procedures to ensure full compliance with other federal agency requirements and;
- Enactment of legislative provisions that ensure ready access, notwithstanding the operation of other specific statutory measures limiting such access, provided the withdrawn lands are managed under an approved Integrated Natural Resources Management Plan in accordance with the Sikes Act.

Ready access does not translate to exemption from applicable laws and regulations that are not specifically addressed by legislation supporting the withdrawal.

3.2.3 ALTERNATIVE 3A: RANGE 77 – EC SOUTH WITHDRAWAL

Alternative 3A proposes to increase the NTTR boundary by approximately 18,000 acres of land to add a safety and security buffer to the footprint of the EC South area and would be redesignated as "Range 77" to allow full air-to-ground operations. There would be no construction disturbance or munitions use in this additional area proposed for acquisition. The additional land would serve as a safety buffer for live weapons deployment on the interior of Range 77. This area is shown in **Figure 3-2** and would extend the Range 77 boundary west.

3.2.4 ALTERNATIVE 3B: 64C/D AND 65D WITHDRAWAL AND ADMINISTRATIVE INCORPORATION

Alternative 3B proposes to withdraw approximately 57,000 acres of land located along the current border of the NTTR. This area is shown in **Figure 3-2**. This area is composed of approximately 54,000 acres along the southern border of NTTR (areas designated as 64C/D and 65D), approximately 6,000 acres that are parallel to the current NTTR boundary and Hwy 95 Nevada Department of Transportation right-of-way, and approximately 1,000 acres as part of an administrative incorporation. Withdrawal of these areas would serve to improve the NTTR operational security and safety buffers to decrease the potential for unauthorized access from the public.

The administrative incorporation consists of land along the eastern edge of range areas 63B and 63C. This is land that was not included in the MLWA published land withdrawal boundary for the NTTR from the 1999 LEIS even though the area was analyzed in the LEIS. BLM's Public Land Survey System (PLSS) went through a significant software update during the 2001 NTTR withdrawal effort, resulting in a shift of the coordinate system, which caused a perceived boundary shift. The legal description was accurate under BLM's old PLSS data, which included this approximately 1,000 acres, but the coordinate system shift from the software update resulted in the acreage no longer being included in the legal description. Additionally, the legal description was never published by DOI in the Federal Register as directed by the MLWA. The BLM and the USAF have agreed to rectify the situation by incorporating the change at this time.

3.2.5 ALTERNATIVE 3C: ALAMO WITHDRAWAL

Alternative 3C proposes to withdraw 227,000 acres of the DNWR to provide expanded training opportunities in the South Range. The area would correspond with potential weapons safety footprints and serve as a safety buffer for live weapons deployment. This area is shown in **Figure 3-2**. These additional areas must be controlled for safety purposes but are not planned to be used for target impact areas. The USAF would like to develop potential insertion points that would include one runway that would be a mockup location to provide special operations personnel a location to practice tactics, while a second runway would be an active runway, providing more realistic insertion training. Each runway would be 6,000 feet long and 90 feet wide. It is anticipated that ground disturbance activities associated with construction of the runways would be less than 13 acres. Details of installation activities are not known for specific areas and it is anticipated that further NEPA related environmental analysis will be necessary for future development as proposed activities within this area are developed. The Alamo withdrawal would also serve as a safety buffer for live weapons deployment in multiple impact areas in the South Range as shown in **Figure 3-3**.

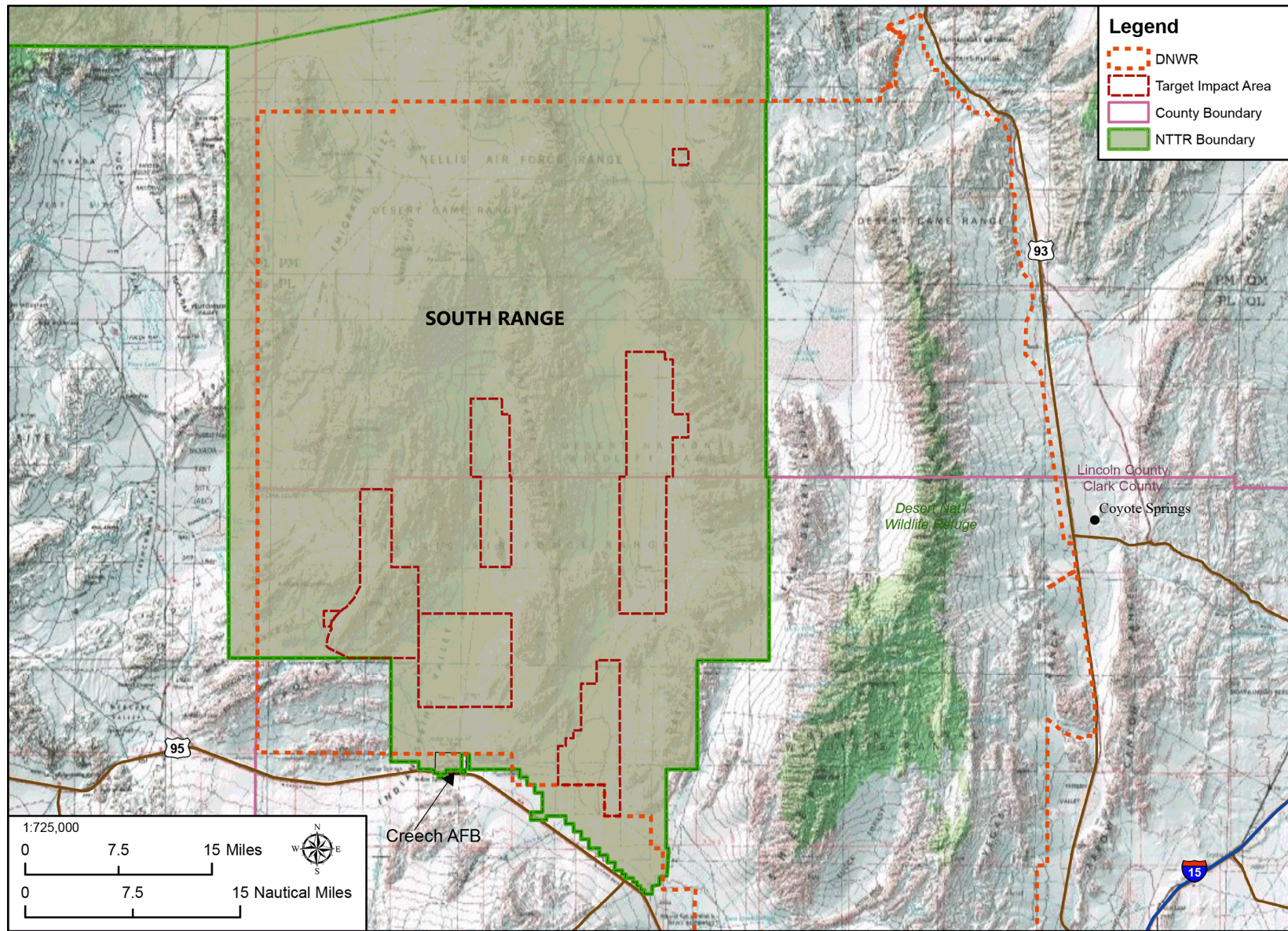


Figure 3-3 Target Impact Areas and DNWR Overlap in South Range of NTTR (Leidos, Inc. 2016)

3.2.6 ALTERNATIVE 4A: 20-YEAR WITHDRAWAL PERIOD

Alternative 4A proposes to establish the length of time in which the withdrawal would be active to be a period of 20 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives.

3.2.7 ALTERNATIVE 4B: 50-YEAR WITHDRAWAL PERIOD

Alternative 4B proposes to establish the length of time in which the withdrawal would be active to be a period of 50 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives.

3.2.8 ALTERNATIVE 4C: INDEFINITE WITHDRAWAL PERIOD

Alternative 4C proposes to establish the length of time in which the withdrawal would be active to an indefinite time period. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives.

3.2.9 NO ACTION ALTERNATIVE

The No Action Alternative would allow the withdrawal of the NTTR lands to expire at the end of November 2021 and the withdrawn land would return to the DOI. The military and DOE would no longer be able to use the land for training or testing purposes.

CHAPTER 4 - CONTAMINATION OVERVIEW

This chapter provides an overview of sources of contamination, management programs, and sets the framework for the following chapters. Chapters 5, 6, 7, and 8 will respectively address Historical, Existing, Future, and Cumulative Impacts of contamination.

The NTTR has undergone multiple changes in mission parameters since operations commenced in 1940. Policy and regulation to preserve safety and security has been in place over the course of the NTTR's history. Changes have also been inclusive of addressing impacts to the environment and human health. As an active MRTFB with live munitions ranges, airfields, construction, and industrial activities, contamination has been and continues to be a key consideration.

The USAF as well as other regulatory agencies, manage environmental programs to track incidents involving various contaminants, perform periodic assessments, and routinely update management plans. Contamination within the NTTR was reviewed and organized into three (3) major categories:

- **Operations and Maintenance (O&M) Materials**
O&M materials include all potential sources of contamination associated with running an industrial facility and captures everything other than ordnance and radiation contamination.
- **Ordnance**
Ordnance contamination includes unexploded ordnance, expended ordnance, explosive residue, target debris and residue, and munition constituents contaminated soil and represents the majority of contamination within the NTTR.
- **Radiological Materials**
Radiological materials fall into two (2) subcategories: DU munitions that are managed by the USAF and licensed by the NRC and; nuclear testing sites that are managed by the DOE who by an MOU and FFACO maintains responsibility for these areas.

These categories are explored in the following sections along with the major environmental characterization efforts used to identify and mitigate the risk of contamination.

4.1 OPERATIONS AND MAINTENANCE

4.1.1 HAZARDOUS MATERIALS

The USAF uses hazardous material throughout the NTTR. Materials are centrally located at the major industrial complexes including TPECR, TEOR O&M Compound, Creech AFB, TTR Industrial Facility, and Cedar Pass. The activities that utilize hazardous materials include vehicle maintenance, fire training, aircraft maintenance, aircraft operations, as well as other industrial and construction activities. Materials commonly used onsite include petroleum, oils, and lubricants (POLs), solvents, paint, batteries, and other chemicals (USAF 2010).

The acquisition of hazardous materials undergoes an approval process through the Environmental Management System where the requested type and quantity is checked against storage requirements. Hazardous materials are managed in accordance with the Hazardous Materials Management Plan, which fulfills requirements established by multiple regulatory agencies including the Occupational Safety and Health Administration (OSHA) Hazard Communication, OSHA standard for Process Safety Management, Clean Air Act Amendments Section 112, Executive Order 12856, Executive Order 13148, DoD Directive 4210.15, Air Force Instruction (AFI) 32-7080, AFI 32-7086 and the NAFB Commander (USAF 2010).

Safety measures include spill response equipment that is made available at storage locations. Shop personnel and the fire department may respond to spills in accordance with spill response plans. Spill response plans and procedures are addressed later within this section. A listing of material authorizations is included in **Appendix A**.

4.1.2 HAZARDOUS WASTE

The USAF generates hazardous waste due to the utilization of hazardous materials. The waste is collected by the generator in appropriately labeled containers at the initial accumulation point and then transferred to a central accumulation point pending final shipment and disposal. Hazardous waste is not treated or disposed of within the NTTR.

There are two (2) temporary central accumulation points operated in accordance with the Resource Conservation and Recovery Act (RCRA) (permit #NV5570024112) to collect hazardous waste from the point of use for characterization and shipment for disposal.

The Creech AFB central accumulation point is a small quantity generator that collects waste from Creech AFB and Point Bravo. This storage area may hold waste for up to 180 days as specified of a small quantity generator. The TTR central accumulation point is a large quantity generator that collects waste from TTR and Tolicha Peak. This storage area may hold waste for up to 90 days as specified for a large quantity generator. The DOE Sandia Laboratory located at the TTR is also a small quantity generator.

4.1.3 SOLID WASTE

Solid waste and construction debris are generated at the industrial facilities within the NTTR. Solid waste at the NTTR is managed by two (2) overarching Integrated Solid Waste Management Plans (ISWM); one for the North Range and the other for the South Range, namely Creech AFB and portions of TTR including the O&M Compound and TPECR.

The ISWM plans address the management of solid waste as defined in 40 Code of Federal Regulations Part 261.2. Solid waste includes municipal solid waste, industrial solid waste, construction and demolition debris, and material sent to the qualified recycling program per AFI 32-7080. The qualified recycling program is meant to reduce disposal costs, divert waste from landfills, and generate revenue from the sales of scrap materials. When material becomes a solid waste, it is sorted into an appropriate container for recycling or disposal. Disposal generally involves a landfill or combustion in a waste-to-energy facility. These disposal methods are used for waste that cannot be reduced, reused, or recycled. These ISWM plans do not address hazardous waste, radioactive waste, or medical waste.

The NTTR has one (1) Class II permitted municipal solid waste landfill and two (2) Class III construction waste landfills located at TTR. The Class II municipal solid waste landfill was put into service and officially approved as the primary solid waste landfill for the Tonopah Airfield Auxiliary Annex (TAAA) by NDEP on January 23, 1991 with an area and capacity expansion approved in 2001 as described in the following table.

Table 4.1-1 TTR Landfill			
Permit SW209REV01 Class II Landfill	Revision 2000	Revision 2001	Total
Disposal Area (acres)	2.89	18.11	21
Maximum Elevation (amsl) ¹	5,454	--	5,453 ²
Minimum Elevation (amsl)	5,426	--	5,426
Disposal Capacity (cu. yds.) ¹	195,000	386,400	581,400
Total Volume (cu. yds.)	233,000	493,800	726,800
¹ amsl – Above Mean Sea Level, cu. yds. – cubic yards			
² The reported total is inconsistent with the running total of 5,454			

The landfill receives less than 20 tons of waste per day and is designed to service a maximum population of 10,000 people. The maximum population served over the last few years has been less than 500 people, depending on site activities (NDEP Bureau of Waste Management 2014). The landfill is permitted to accept a variety of solid waste including putrescible refuse, non-putrescible solid wastes, and non-friable asbestos. The landfill is constructed without a leachate collection system and a groundwater monitoring waiver has been approved and is included in the permit application.

The Class III landfills located at TTR (Cedar Pass and TTR – Area 10/Peot Lake) were approved November 2016 to accept construction waste under permit numbers SWW1780 and SWW396, respectively. Hazardous wastes or any liquids are prohibited from disposal at these sites.

Disposal data for the Class II landfill is submitted to NDEP at regular intervals as required by the landfill permit. The Class III landfills are exempt from reporting to NDEP; however, pertinent records must be maintained and incidents must still be reported to NDEP. The NDEP active and closed case lists only include cases of releases outside of containment; other incidents (fires, etc.) are not on this list. This information is available under a separate site in the permit files. As of February 2017, NDEP has no records of any such incidents at the TTR Class II or Class III landfills (Paul Eckert 2017, NDEP 2016).

The municipal solid waste and construction debris generated from the South Range is transported and disposed of at offsite landfills.

4.1.4 WASTEWATER

The USAF has had three (3) permitted wastewater treatment facilities within the NTTR, as shown in the following table (NDEP 2012):

Table 4.1-2 Wastewater Treatment Facility Permits			
Location	Permit Number	Daily Maximum	30-day Average
Cedar Pass	NEV95014	0.045 MGD	0.030 MGD
Creech Air Force Base	NEV60030 - Closed	Closed	Closed
Tonopah Test Range	NEV20001	0.672 MGD	0.375 MGD

There are several septic systems located on the NTTR. The USAF is currently in the process of taking physical inventory of all large volume storage containers onsite, including septic tanks (Zeider, 99 CES/CEIE 2016). Therefore, a final listing of septic tanks, oil water separators, grease traps, and grit chambers was not available for review during the drafting of this report. A preliminary list of septic tanks, grease traps, and sand/oil interceptors is included in **Appendix B**.

4.1.5 STORAGE TANKS

There are a number of above ground storage tanks (ASTs) and underground storage tanks (USTs) located on the NTTR. The NDEP corrective actions/leaking UST list and the federally regulated UST list were reviewed for applicable entries through keywords, facility name, owner and facility ID. The corrective actions/leaking UST for confirmed release closed and active cases are also discussed in the Existing Conditions Chapter and Historical Conditions Chapter, respectively.

The federally regulated UST list was reviewed and revealed eleven (11) currently active USTs that contain either gasoline, diesel, or jet fuel (NDEP 2016). These consist of (6) USTs reportedly located at TTR, two (2) at Tolicha Peak, and three (3) at Creech AFB (NDEP 2016). Some of the storage tanks included in the federally regulated UST listing may not be federally regulated USTs; examples include ASTs, farm and residential tanks, and heating oil. NDEP does not regulate ASTs or the storage of heating oil in USTs. The relevant listings reviewed do not include these exceptions. The federally regulated UST list also identified 36 relevant USTs in either permanently or temporarily out of use status (NDEP 2016). Closed cases are further discussed in the Historical Conditions chapter. A list of the known active and inactive USTs registered with NDEP is provided in **Appendix C**.

NDEP additionally implements an online eMap that includes corrective actions, leaking underground storage tanks, and UST sites that is updated daily from their project tracking database. However, the project database listings available for review on a webpage or excel download are updated quarterly. Therefore, discrepancies in information between the two search methods may be present.

The storage tank inventory from Tier II reporting was consulted for reporting year 2015. Tier II reporting is completed for compliance with the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and the EPCRA Toxic Release Inventory (TRI) Program (99th Air Base Wing 2016). EPCRA imposes requirements on federal, state and local government, tribes, and industry to prepare chemical emergency response plans, report accidental releases of hazardous substances, submit Material Safety Data Sheets to state and local officials and fire departments for handling and/or storing any hazardous chemicals, and to complete a toxic chemical release inventory form annually.

The Tier II reports included the following inventory of applicable tanks:

- Forty-seven (47) propane tanks: three (3) at Point Bravo, one (1) at Range 63C (formerly Silver Flag Alpha), three (3) at "NTTR", and forty (40) at Creech AFB
- Thirty-five (35) diesel ASTs: 31 at Creech AFB and four (4) at Tonopah
- Eight (8) jet fuel ASTs: four (4) at Creech AFB and four (4) at TTR
- Five (5) unleaded gasoline ASTs: two (2) at Creech AFB and three (3) at TTR
- Three (3) aviation gas tanks at Creech AFB
- One (1) unleaded gasoline UST at Tolicha Peak
- One (1) diesel UST at Tolicha Peak

The UST count between Tier II reporting and NDEP records do not match. These discrepancies may be attributed to USAF's current, on-going efforts to inventory storage tanks in compliance with AFI 32-7004 Storage Tank Environmental Compliance (Zeider, 99 CES/CEIE 2016). A list of below and above ground storage tanks within the NTTR based on the Tier II reports are provided in **Appendix D**.

4.1.6 SPILLS

Any spills over the reportable quantity that are introduced to the environment must be reported to NDEP. Spill response plans are in place for clean-up regardless of whether the conditions are reportable or not. Spill kits are also located within the major installations on the NTTR. The first priority of emergency response is to protect human life, followed by incident stabilization, and lastly environmental clean-up.

Typically, small spills that are cleaned up and do not leave any residual contamination are closed with a simple letter to NDEP providing the details of the incident and the remediation completed. Larger spills that cannot be fully and immediately cleaned up are registered with NDEP for further investigation and remediation method consultation.

Spills may be managed by USAF spill kits through emergency services or the Civil Engineering Squadron (CES). Clean-up may also be completed by Range Support Services consisting primarily of subcontractors if the spill is beyond in-house capabilities. Emergency Services may be contacted to clean or contain a large spill depending on the size and the material. USAF annual reporting on continuing decontamination identified the following quantities of disposed material related to spill clean-up (USAF 1999-2016):

- 203 cubic yards of petroleum-impacted soils were transported and removed by 99 CES/CEIE in CY14.
- 135,940 lbs. of petroleum contaminated soils collected from various spill locations on the NTTR were transported and disposed of by 99 CES/CEIE in FY15.

It is unclear if the quantities of the material are being duplicated due to the overlap between the fiscal and calendar year. It is also unknown whether these clean-up efforts were part of an ongoing program or isolated incidents.

The contaminant of concern for most of the spills that occur on the NTTR are Total Petroleum Hydrocarbons (TPH) through the usage of diesel fuel, gasoline, and jet/aviation fuel. The earliest incident reported to NDEP occurred in 1989 and the last incident of confirmed release, closed cases occurred in 2015 (NDEP 2016). The closure of a spill or crash site must comply with standards set by Nevada Administrative Code (NAC) 445A. Closure types include:

- Clean with remediation
- UST clean closure
- Investigation closed
- NAC 445 A-K
- NAC 459 A-K
- Unknown – No information given

The NAC 445A A-K and NAC 459 A-K closure designation indicates a soil-only case that was closed although soil contamination remains in place above action levels. Historically this meant TPH above 100 mg/kg or other constituents above Environmental Protection Agency (EPA) Regional Screening Levels (RSLs). However, based on an evaluation of the factors listed in NAC 445A.227(2), NDEP determined that the contamination did not pose a risk to human health or the environment and provided closure based on the NAC criteria. The closure is based on the assumptions provided at the time of closure, and the case could be reopened if site conditions or use changes and if the assumptions relied upon are no longer valid (Valdez 2016). Cases may also be closed under less stringent conditions because access to the NTTR is restricted from public use.

4.2 AIRCRAFT MISHAPS

Military aircraft mishaps occur as a result of the extensive testing and training conducted on the NTTR. The USAF has emergency response procedures in place to handle such incidents. In the event that an aircraft goes missing or notifies the tower of an issue, Emergency Services are alerted and efforts are made to pinpoint the location of the aircraft. The first priority of an emergency responder is to protect human life, followed by incident stabilization, and lastly environmental clean-up. The potential for contamination is present due to the nature of aircraft mishaps (e.g. damaged fuel tank releases) and the emphasis on human life and incident stabilization that is placed over the environment. However, environmental concerns are addressed through the implementation of spill response guidelines.

4.3 ORDNANCE

The NTTR has been an active test and training range since 1940. It has evolved to support air-to-air gunnery training, advanced weapons testing, simulated target training, and live munitions exercises (USAF 2014). Ordnance is used in ground and air testing and training exercises and resulting contamination includes unexploded ordnance (UXO), expended ordnance, explosive residue, target debris and residue, and munitions constituent contaminated soil.

The Coronet Clean policy was instituted in 1975 as a revised means of handling ordnance through routine maintenance and clean-up for active range targets. This program entails the identification and removal of target debris, expended ordnance, and UXO. However, explosive residue introduced into the soil is left in place. Ordnance is managed as follows (USAF 2012):

1. Explosive Ordnance Disposal (EOD) personnel or a UXO contractor sweeps out around the target area following specific criteria at least every 2 years. These requirements are in agreement with AFI 13-212, Range Planning and Operations.
2. Any UXO encountered is inspected. If it is determined that it can be safely moved, it is consolidated next to a UXO that cannot be moved and then exploded in place.
3. Following detonation, the UXO is inspected to ensure complete destruction. Once the UXO is deemed safe and has received a second inspection, waste material is collected and transported by a contractor to the salvage area. The debris is given a final inspection in the salvage area for hazardous and radiological contamination. The debris is recycled or disposed of in a landfill depending on the final inspection findings. Both recycled materials and trash are recorded by material and weight in the Annual Report of Continuing Decontamination.
4. The disturbed area surrounding the target is backfilled and graded if vegetation control is needed. New targets may be placed or reconstructed following grading activities.

Munitions constituents pertinent to NTTR operations are identified in the following table along with their respective chemical abstracts services (CAS) number, used to identify each chemical substance (EA Engineering, Science, and Technology, Inc., PBC 2015):

Table 4.3-1 Munitions Constituents List for NTTR	
Munitions Constituents	CAS Number
4-Amino-2,6-dinitrotoluene (4ADNT)	1946-51-0
Lead	7439-92-1
Perchlorate	14797-73-0
2-Amino-4,6-dinitrotoluene (2ADNT)	355-72-78-2
Chromium, total	7440-47-3
2,6-Diamino-4-nitrotoluene	59229-75-3
2,4-Diamino-6-nitrotoluene	6629-29-4
1,3-Dinitrobenzene (1,3-DNB)	99-65-0
2,4-Dinitrotoluene (2,4-DNT)	121-14-2
2,6-Dinitrotoluene (2,6-DNT)	606-20-2
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	479-45-8
Nitrobenzene (NB)	98-95-3

Munitions Constituents	CAS Number
Nitrocellulose (NC)	9004-70-0
Nitroglycerin (NG)	55-63-0
Nitroguanidine (NQ)	556-88-7
3-Nitrotoluene (m-Nitrotoluene)	99-08-1
2-Nitrotoluene (o-Nitrotoluene)	88-72-2
4-Nitrotoluene (p-Nitrotoluene)	99-99-0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0
Pentaerythritol tetranitrate (PETN)	78-11-5
1,3,5-Trinitrobenzene (TNB)	99-35-4
2,4,6-Trinitrotoluene (TNT)	118-96-7
White Phosphorus	7723-14-0

Evaluation of munitions constituents present on the NTTR is discussed in subsequent chapters of the report. A copy of munitions constituents and their screening values in human drinking water, freshwater, and marine surface water systems on operational ranges is also included in **Appendix E**.

4.4 RADIOLOGICAL

Radiological contamination has occurred within the NTTR as the result testing of USAF depleted uranium (DU) munitions and training with armor-piercing incendiary projectiles that contain DU (Bay West 2009) and historic DOE nuclear testing. Radiological materials present on the NTTR fall into two (2) distinct subcategories:

- **DU Munitions:** the use of DU armor piercing incendiary munitions is permitted under the NRC Master Materials License 42-23539-01AF and administered through the USAF developed Radioisotope Committee (RIC) through the radioactive material permit NV-30048-01, for training purposes within Range 63 located on the South Range.
- **Nuclear Testing Materials:** the DOE conducted atmospheric and underground nuclear tests at the NNSS (formerly the Nevada Test Site) adjacent to the NTTR and on the NTTR itself. Atmospheric tests ceased in 1962 but underground testing continued until 1992.

4.4.1 DEPLETED URANIUM (DU)

DU munitions represent a portion of the overall munitions related contamination. However, due to particular health concerns surrounding use of radiological munitions, they are treated as a category apart from other ordnance. DU is a beta radioactive heavy metal used for test and training exercises on the NTTR. Beta radiation may travel meters in the air and is moderately penetrating (Oak Ridge Institute for Science and Education 2015). The DU licensed area is located in Range 63 of the NTTR and is the only target area in the United States authorized for air-to-ground firing of DU rounds. The location was determined acceptable to support testing and training using DU munitions and firing systems due to its remote location. The NRC granted the license to use DU rounds for a target area in Range 63 to the USAF in 1982 (**Figure 4-1**). Range 63 includes a holding area for new and spent targets (DU Library) and the DU target area known as Target 63-10 (**Figure 4-2**) that currently maintains six (6) tanks functioning as targets. Target 63-10 covers approximately 1.5 acres in the southeastern portion of the South Range (Bay West 2009). DU ammunition for training use at NTTR is stored at NAFB.

DU activities today are covered under a NRC master materials license, permit no. NV-30048, which grants authority to manage and regulate the use of NRC-licensed materials. The NRC is a federal organization that regulates radioactive materials. The USAF also internally manages radioactive materials through its RIC and AFI 40-201 Radioactive Materials Management (USAF 2014). The DU-licensed area would undergo regulatory closure through the NRC if the training operations ceased.

The use of DU is scoped and managed under the *Depleted Uranium Management Plan for the Nevada Test and Training Range at Target 63-10*. This plan includes provisions for the control of DU exposure and disposal or recycling of target debris, range residue, and spent DU ammunition. The plan incorporates NRC regulations and the NEPA Low-Level Radioactive Waste Policy Act.

Coronet Clean operations are also conducted on Target 63-10. The process includes:

1. USAF Explosive Ordnance Disposal (EOD) personnel or specialty contractors will sweep out to a minimum radius of 300 feet from the farthest inert targets or when the munition density factor is less than five (5) items per acre. Live targets are swept out to a minimum of 500 feet.
2. The DU rounds are collected and managed in accordance with the radioactive material permit and AFI 13-212, Range Planning and Operations. Target 63-10 is cleared annually and the rounds are processed through the USAF radiation safety officer and shipped out for recycling when sufficient quantities are collected to justify transportation costs. If recycling is no longer viable, source material will be disposed of as low level radioactive waste through the USAF Radioactive and Mixed Waste Office (98th Range Wing 2002).

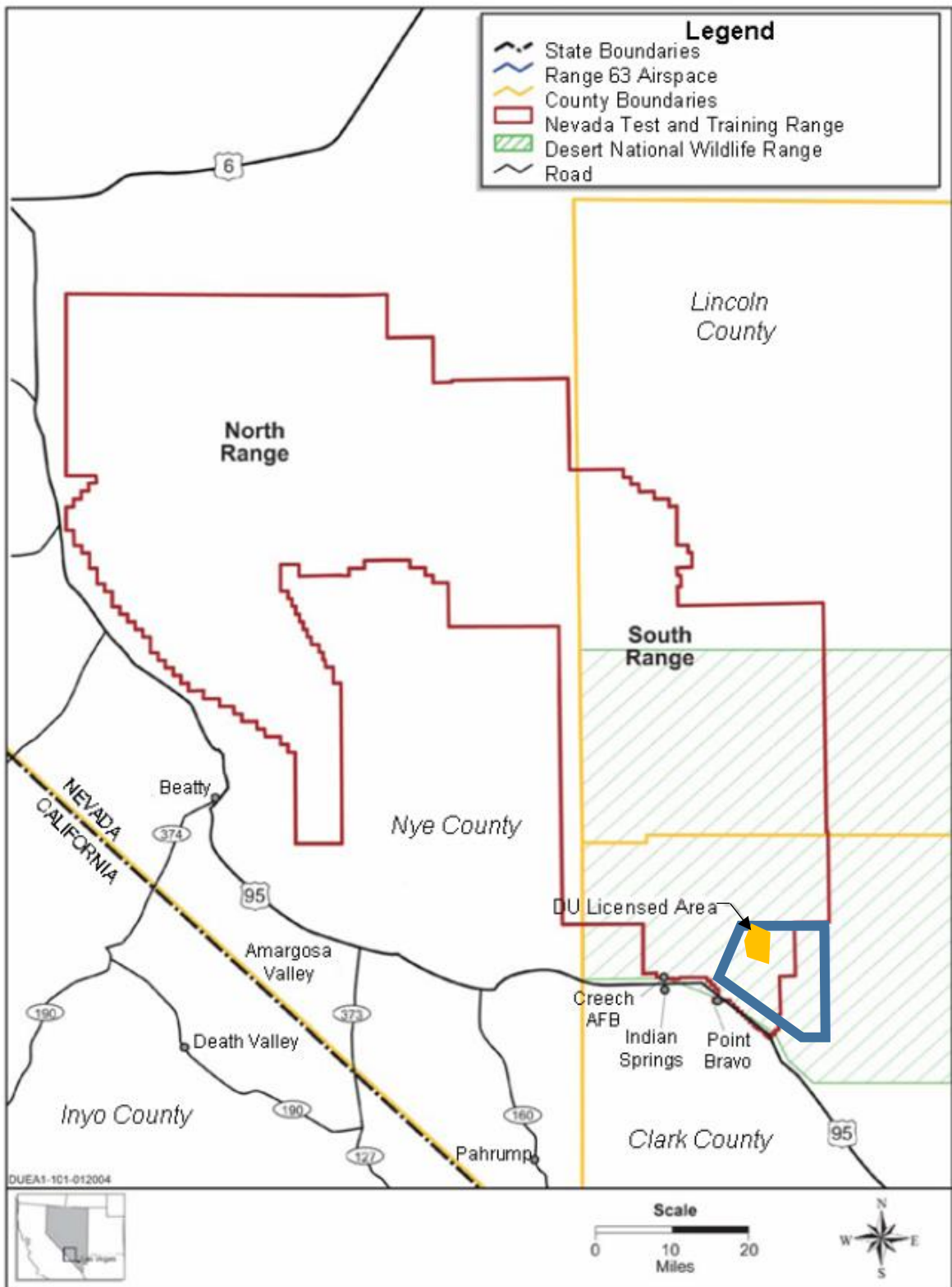


Figure 4-1 Location of DU Licensed Area (DRI 2010)

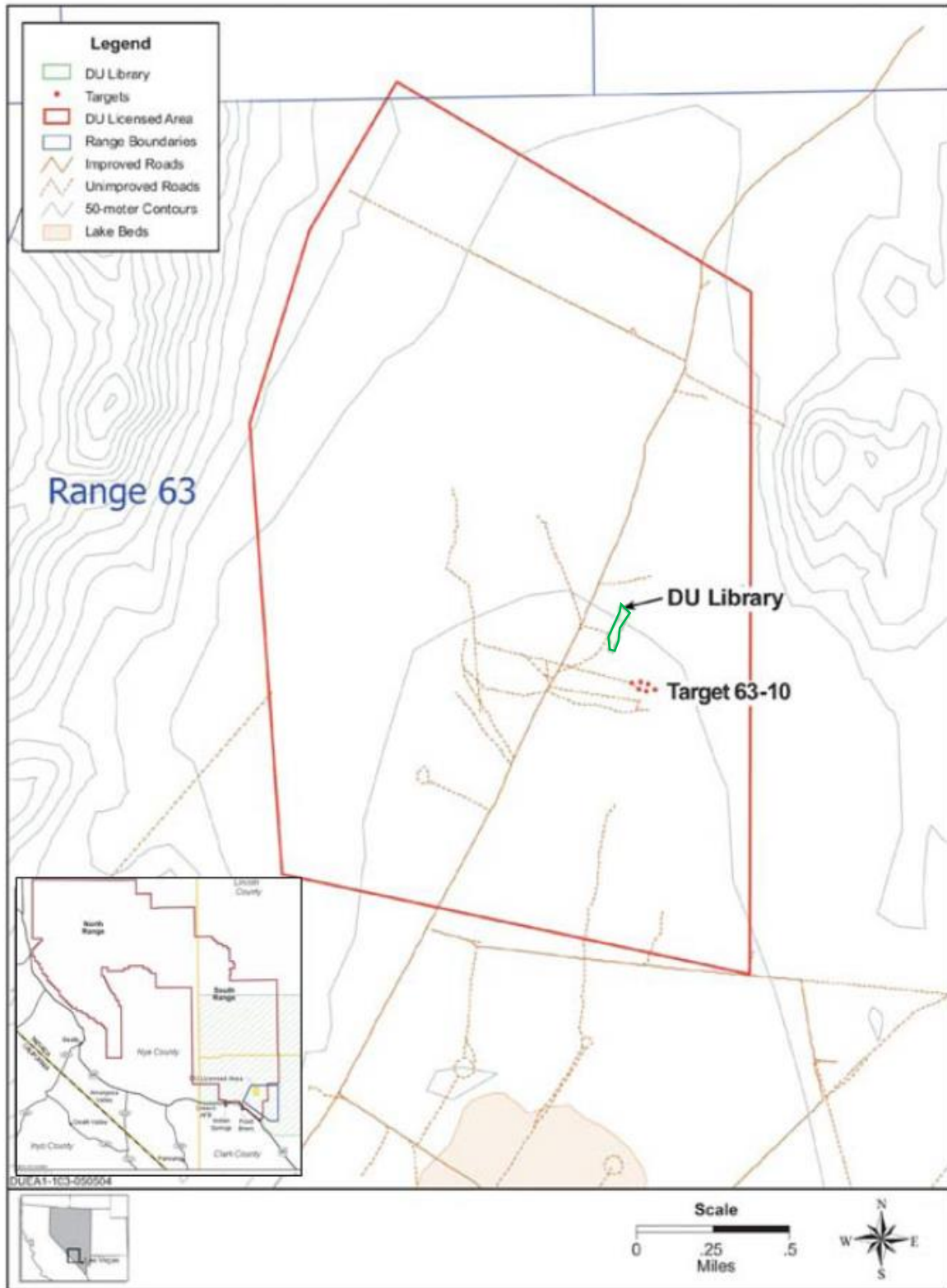


Figure 4-2 Location of Target 63-10 and DU Library (DRI 2010)

4.4.2 NUCLEAR TESTING MATERIALS

The U.S. Atomic Energy Commission (AEC) conducted nuclear testing on the NNSS and portions of the NTTR from 1951 to 1992 (National Security Technologies, LLC 2015). The DOE (formerly AEC) ceased nuclear testing on the NTTR by 1992. The Defense Nuclear Agency (now Defense Threat Reduction Agency), the DOE/AEC and the State of Nevada signed a Federal Facility Agreement and Consent Order (FFACO) effective May 10, 1996 to address the historic contamination both onsite and offsite of the NNSS known as AEC/DOE legacy sites. The FFACO outlined a corrective action strategy to identify legacy sites with contamination, conduct investigations of these sites, and implement corrective actions under the regulatory authority and oversight of NDEP.

The corrective action strategy consists of identifying Corrective Action Sites (CASs), grouping CASs into Corrective Action Units (CAUs), prioritizing CAUs for funding and work, and implementing the applicable corrective actions. CASs are defined within one of the following categories: industrial sites, underground test area sites, soils sites and off-sites. The industrial sites include but are not limited to landfills, mud pits, leach fields with or without radiological contamination, or discarded or abandoned materials such as drums, batteries, and lead materials. Underground test area sites are areas that may or may not have resulted in local or regional impacts to groundwater resources. Soil sites are comprised of surface and shallow subsurface soil contamination from various nuclear experiments or testing. Off-sites consist of contamination resulting from DOE activities outside the NTTR or NNSS borders (NDEP 2016).

Seventy-four (74) CASs were identified on the NTTR and include industrial, soil, and underground test area sites. NRG- 7A, a POL release, but not a CAS, attributable to DOE from the NNSS was also found to have impacts on the NTTR (Bay West 2009, Leidos 2015). Some of the industrial sites are associated with activities to support nuclear testing activities. The soil sites include radiation contaminated areas from atmospheric testing or plutonium dispersion tests. The testing sites located on or relevant to the NTTR include:

- CAU 101/102 Schooner/Western Pahute Mesa
- CAU 411 Double Tracks
- CAU 412 Clean Slate I
- CAU 413 Clean Slate II
- CAU 414 Clean Slate III
- CAU 415 Project 57
- CAU 541 Small Boy

The radiological contamination located on the NTTR is the sole responsibility of the DOE as outlined in the MOU DE-GM08-98NV13467 listed as between the DOE Nevada Operations Office and the Air Warfare Center NAFB. The MOU states that the AEC/DOE is responsible for full decontamination of USAF lands potentially contaminated by AEC/DOE operations (including the AEC/DOE legacy sites) on the NTTR.

NDEP forwarded correspondence to the DOE/NNSA and various USAF officials on March 12, 2002 regarding the "Remediation of Soils Sites on the Nellis [sic] Test and Training Range." The 99th Air Base Wing Commander responded via a letter dated April 6, 2002 to the Assistant Manager for Environmental Management at the NNSA Nevada Operations Office that stated: "If the USAF requires additional clean-up due to a necessary change in land use in the future, the NNSA will agree to conduct that remediation to a corresponding corrective action level." USAF officials continue to work with DOE/NNSA officials to address land use based scenario remediation levels (Bay West 2009).

CHAPTER 5 - HISTORICAL CONDITIONS

The previous chapter presented the different types and sources of contamination on the NTTR along with its management. This chapter intends to identify historical contamination. It also describes in detail significant programs and efforts to identify, locate, and characterize contamination on the NTTR, as well as recommend closure means where needed.

5.1 OPERATIONS AND MAINTENANCE (O&M)

5.1.1 HAZARDOUS WASTE

The two (2) RCRA storage areas for hazardous waste at Creech AFB and at TTR are inspected every two (2) years by NDEP and neither have been found in violation or non-compliance during the most recent inspections according to EPA facility reports (EPA 2015). The DOE Sandia Laboratories located at the TTR is a small quantity generator and also does not have violations or non-compliance issues noted from the most recent inspections (USAF 2010). Incidents involving releases outside of containment would be reported to NDEP and recorded in the active or closed case lists.

5.1.2 SOLID WASTE

A closed landfill is located at Creech AFB. A closure report was prepared by Black and Veatch dated July 2009. The landfill was closed in 1975; waste generated at Creech AFB prior to this date may have been disposed at this landfill (USAF 2009). The landfill was briefly reopened in 1981 for the disposal of demolition debris, but was subsequently closed. Groundwater monitoring conducted in 2008 identified the presence of volatile organic compounds that were below the maximum contaminant limits. The report concluded that the groundwater is not being significantly impacted by landfill leachate and that there is no evidence suggesting that material in the landfill is adversely affecting human health or the environment. An annual inspection reporting program and institutional controls to be implemented were noted in the report. Institutional controls include signage, restricted use, stormwater controls, and erosion controls.

Incidents, non-compliance, fire/explosion, or threat from hazardous constituents or waste at landfills that may endanger human health or the environment must be reported to NDEP within 24 hours of occurrence and may be included in confirmed release case listings. Other incidents occurring within the landfill confines would be maintained in permit files for the specific landfill site. Following a search of public records and personal correspondence no such incidents were identified (NDEP 2016, Paul Eckert 2017).

5.1.3 SPILLS

NDEP maintains records of closed (historical) cases of contaminant releases under reportable conditions. The earliest incident reported to NDEP, according to their PT Snapshot of Confirmed Release Cases Closed listings, occurred in 1989 and the last event placed in closed status occurred in 2015 (NDEP 2016). Seventy (70) confirmed release, closed cases pertaining to the NTTR were identified at the time of writing. Results of the records review of NDEP closed confirmed releases cases is included in **Appendix F**. NDEP also maintains records of active (open) cases, which are discussed in Chapter 6. USAF records of spill and aircraft mishaps are also maintained. The USAF is currently in the process of digitally archiving, organizing, and consolidating records (Zeider, 99 CES/CEIE 2016). Therefore, a comprehensive USAF listing of incidents was not available for review at the time of drafting this report.

A summary of the confirmed release, closed cases reported to NDEP are included below:

- Thirty-five (35) of the incidents involved TPH, including diesel and aviation fuel releases
- Ten (10) involved aircraft mishaps
- Three (3) heating oil releases

- Two (2) motor oil cases
- One (1) lubricating oil case and;
- Nineteen (19) releases of unknown contaminants.

Eleven (11) out of the 19 records of unknown contaminants are held by the Clark County Health District (now the Southern Nevada Health District), who were unable to locate the files based on NDEP facility ID and/or location listed. Seven (7) cases are held in NDEP's Carson City storage and were unable to be retrieved electronically. One (1) case lists the case officer's name but no file location or agency.

5.1.4 AIRCRAFT MISHAPS

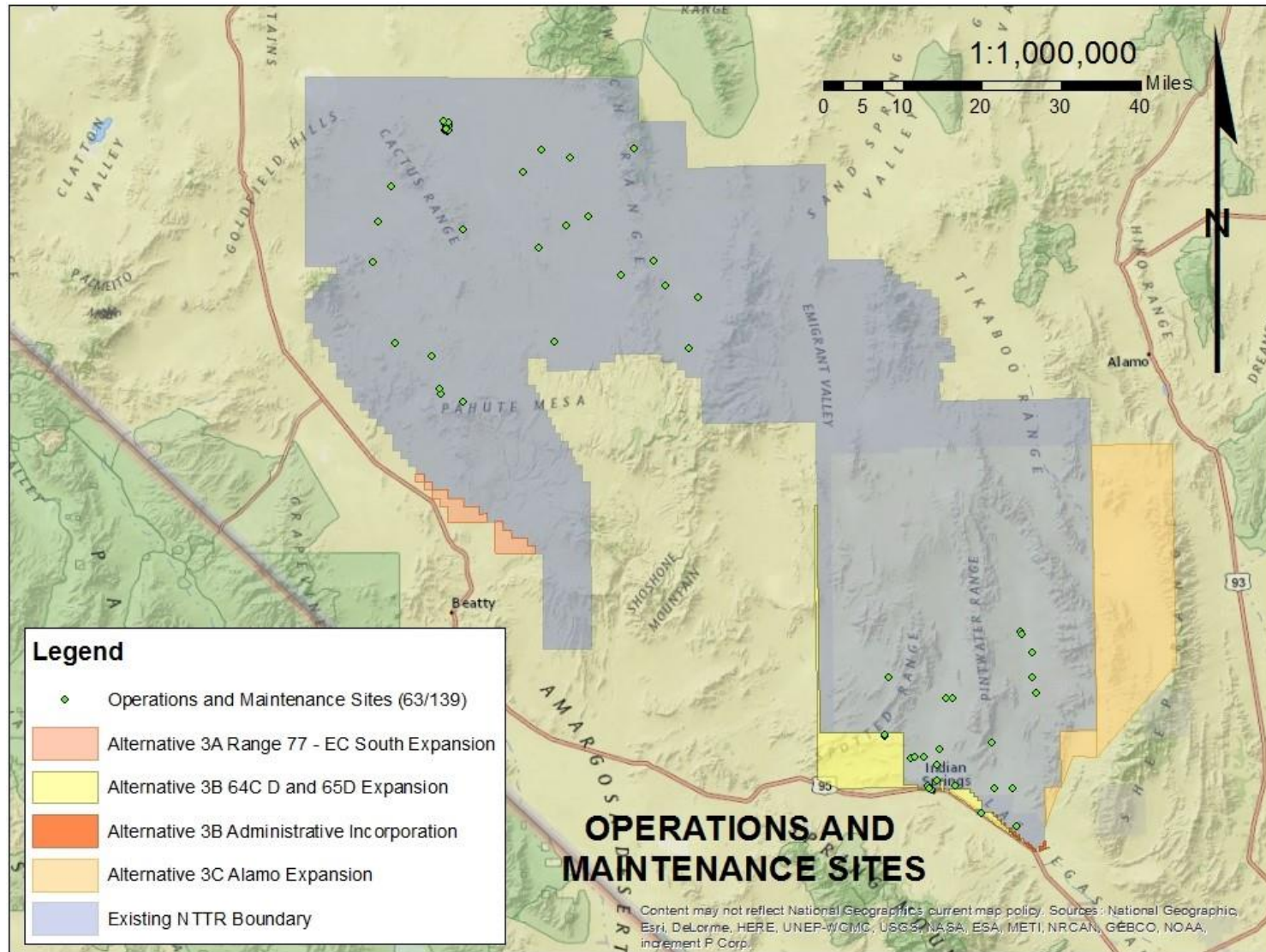
Military aircraft mishaps occur as a result of the extensive testing and training conducted on the NTTR. As previously stated, the first priority of an emergency responder is to protect human life, followed by incident stabilization, and lastly environmental clean-up. Contamination can occur in these cases due to releases of petroleum, oils, and lubricants; crash debris; and fire impacted soils. A summary of aircraft mishaps identified through NDEP, the AOC Preliminary Assessment Report, and correspondence with USAF is provided in the following table (NDEP 2016, USAF 2003, USAF 2016):

Site ID	Facility Name	Facility Address	Report Date	Closure Date	Contaminant	Notes
H-000020	NAFB	60 miles east of Tonopah	2/24/2009	8/3/2009	Jet Fuel/ Av Gas	Military helicopter: hard landing at Overton, >1000 gallons to tarmac and soil
H-000020	NAFB	60 miles east of Tonopah	8/11/2009	2/10/2010	--*	Jettisoned Tanks from F-15
H-000020	NAFB	60 miles east of Tonopah	3/18/2005	7/6/2005	Jet Fuel/ Av Gas	F-16 landed short of runway. 165 gallons released. Soil impacted.
H-000020**	NAFB	60 miles east of Tonopah	6/16/1999	8/11/1999	Jet Fuel/ Av Gas	Fighter crash, TTR (pilots okay).
H-000020	NAFB	60 miles east of Tonopah	8/13/2008	10/28/2009	Jet Fuel/ Av Gas	Jettisoned tanks
H-000020	NAFB	60 miles east of Tonopah	3/25/2005	6/20/2005	Jet Fuel/ Av Gas	F-15 crash BLM land; 50 miles northeast of Nellis AFB*
H-000020	NAFB	60 miles east of Tonopah	6/23/2006	12/18/2009	Jet Fuel/ Av Gas	Creech AFB unmanned vehicle crash.
H-000020	NAFB	60 miles east of Tonopah	10/24/2009	12/18/2009	Jet Fuel/ Av Gas	Two jettisoned tanks for F-18.
H-000225	NTTR, 63B A-10 Crash Site	Wildlife Range, Rural	11/19/2003	2/9/2004	Jet Fuel/ Av Gas	--
G-000020	Aircraft Crash/Mobile Source	NTTR, Tonopah	5/18/2004	10/7/2004	Jet Fuel/ Av Gas	--
AOC 200	TECR	ECW	7/24/2001	Fiscal Year 2006	Crash debris/ burned debris	A-6 (?) crash, debris along 900 yard area, evidence of burning upon impact, no soil staining or odor observed.

Table 5.1-1 Aircraft Mishaps, Confirmed Release Closed Cases						
Site ID	Facility Name	Facility Address	Report Date	Closure Date	Contaminant	Notes
AOC 201	TECR	ECE	7/25/2001	Fiscal Year 2006	Crash debris/ burned debris	C-130 crash, debris in 100 yard diameter, extensive burning upon impact, no evidence of soil staining or odor.
AOC 202	TECR	ECW	7/24/2001	Fiscal Year 2006	Crash debris	F-4 crash debris in 450 yards long, no evidence of burning, soil staining, or odor.
AOC 203**	TECR	ECW	7/24/2001	Fiscal Year 2006	Crash debris/ burned debris	Fighter crash with debris 450 yards long, some evidence of debris burning, no soil staining or odor.
AOC 513	Range 65	Range 65	5/5/2002	Fiscal Year 2006	Crash debris	Old (1950s to 1960s) single engine jet crash debris. No evidence of soil staining or odor.
AOC 710	Range 71	Range 71	7/23/2001	Fiscal Year 2006	Crash debris	Crash site debris, no evidence of soil staining or odor.
AOC 751	Range 75	Range 75	7/24/2001	Fiscal Year 2006	Crash debris	Folding wing jet crash site debris, no evidence of soil staining or odor.
AOC 753	Range 75	Range 75	7/25/2001	Fiscal Year 2006	Crash debris	German F-4 crash site debris, no evidence of soil staining or odor.
NA	NTTR/Desert MOA	NTTR/Desert MOA	2000	NA	Jet Fuel	F15 landed without use of landing gear, pilot ejected, and aircraft had just refueled. Fuel contamination <1ft into the soil, site remediated by reseeding.
NA	Southern Range	Southern Range	2000	NA	Jet Fuel	Mid-Air crash between HH-60 (2): 12 lives lost. Small impact areas (2). Sites may have been outside of AF jurisdictional land on USFWS area.
NA	Range 65	Range 65	2000/2001	NA	AV Gas	Unmanned Aerial Vehicle involved. Remediation by reseeding.
NA	TPK-39, NTTR	TPK-39, NTTR	2008	NA	JP-8	British Tornado flying low level impacted hill located on TPECR. Both crew members killed.
NA	Range 64F	Range 64F	08/26/13	NA	Jet Fuel	CV-22 hard landing. Aircraft destroyed. All crewmembers survived.

Table 5.1-1 Aircraft Mishaps, Confirmed Release Closed Cases						
Site ID	Facility Name	Facility Address	Report Date	Closure Date	Contaminant	Notes
NA	Range 63B	Range 63B	10/24/13	NA	Jet Fuel	Unmanned Aerial Vehicle crashed in USFWS managed land withdrawn for AF use. (Outside of impact areas)
NA	Range 65C	Range 65C	10/24/14	NA	Jet Fuel	Unmanned Aerial Vehicle crashed within impact area near active target.
NA	Range 64F	Range 64F	12/11/14	NA	Jet Fuel	Unmanned Aerial Vehicle crashed into the side of Beacon Hill. Terrain was too difficult to recover. USFWS controlled land within NTTR. USFWS authorized remains to be left in place.
NA	NTTR, one mile west of Alamo road, just North of Joe May road	NTTR, one mile west of Alamo road, just North of Joe May road	06/07/16	NA	AV Gas	Unmanned Aerial Vehicle (MQ-9 Reaper). 375 gallons released.
NA: Not available * The site ID and facility address both indicate this case occurred on the NTTR, but the record identifies inconsistent locations. ** It is possible these are the same two incidents as there is only a date of site investigation given in the AOC Preliminary Assessment report.						

See **Figure 5-1** for closed O&M Contamination Sites on the NTTR. The sites located include those identified by NDEP record search with discoverable geographic coordinates, as well as pertinent ERP sites and AOCs sites. The ERP and AOC assessments are defined and discussed within the Environmental Characterization Efforts section.



Note: Sites are not shown to scale. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-1 Operations and Maintenance Sites

5.2 ORDNANCE

The standard practice for disposal of target debris and expended ordnance from 1958 to 1975 was to bury it on the range. The density of burial pits may be five (5) pits within one-acre of a target origin depending on the frequency of use and volume of debris generated per the Bay West decontamination report. A total of 124 munitions pits, from the Bay West inventory, are described in **Table 5.4-1**. The burial pits are unlined and were approximately 10 to 16 feet wide, 100 feet in length and 8 to 12 feet deep. Debris was placed into the pit to approximately two (2) feet below ground surface and backfilled with native soil (USAF 1997). There is a possibility that sources of ordnance contamination (expended ordnance, UXO, target debris, and munitions constituents) may be present in pits constructed during this time period.

EOD personnel had also used open burn/open detonation areas for the burning or demolition of small ordnance. A pit was dug with berms surrounding the hole with alternating layers of lumber and small ordnance piled in the hole. The pit was then soaked with clean diesel fuel (not reclaimed or waste fuel), ignited and allowed to burn for 24 hours. After 24 hours, the remains were stirred with a backhoe and the process was repeated (USAF 2003). The Coronet Clean policy was instituted in 1975 as a revised means of handling ordnance through routine maintenance and clean-up for active range targets.

See **Figure 5-2** for the location of ordnance related contamination. The sites include active and archived targets, munitions burial pits, munitions and target debris sites, and holding areas associated with Coronet Clean operations. The USAF has conducted assessments to evaluate the potential for migration of munition constituents from an operational range to off-range areas and assess risk to human health or the environment due to any off-range migration.

Operational ranges are subject to DoD Directive 4715.11, which established policies for sustainable use and management of operational ranges located within the United States and; protection of DoD personnel and the public from explosive hazards (DoD 2004). A limited field study report was prepared on munitions constituent migration on the NTTR in 2004 (Weston Solutions, Inc. 2004). This report was prepared in advance of the Operational Range Assessment Program that was developed to comply with DoD Directive 4715.11. The first Operational Range Assessment for the NTTR was released in 2007 (Weston Solutions, Inc. 2007).

The limited field study conducted in 2004 entailed historical records review and environmental sampling. The analytical data from this study did not reveal munition constituent migration (Weston Solutions, Inc. 2004). The Operational Range Assessment re-evaluated the sample data from the 2004 limited field study to develop a conceptual site model and further evaluate exposure pathways (Weston Solutions, Inc. 2007). This assessment concluded that there were no viable exposure pathways for soil, surface water/sediment or groundwater (Weston Solutions, Inc. 2007).

The USAF's Operational Range Assessment Program requires a reassessment within five (5) years of the prior assessment (USAF 2011). Additionally, a reassessment may take place earlier if significant changes (e.g., changes in policies) occur that affect determinations made during the previous assessment (USAF 2011). The most recent USAF operational range assessment was finalized in May 2015 (EA Engineering, Science, and Technology, Inc., PBC 2015). The report included a two-phase process: Qualitative (Phase I) and Quantitative (Phase II) Assessment. The Phase I assessment was based on review of existing information only and Phase II consisted of collecting new information obtained through sampling.

Soil and groundwater sampling for Phase II occurred June 25-26, 2014 (EA Engineering, Science, and Technology, Inc., PBC 2015). Six (6) soil samples were collected near the southern boundaries of the South Range. Two (2) samples from ephemeral washes within depositional areas in the South Range had detections for lead and explosive residues. However, the results were not found to pose an unacceptable risk to humans based on EPA soil screening levels for lead and available studies on the effects of explosive residue. Additionally, the lead detections were below the established background value for lead

at NTTR. Background values for lead in soil on the NTTR are all below the EPA regional screening levels (RSLs) of 400 mg/kg for residential soils and 800 mg/kg for industrial soils according to current US Geological Survey geochemical and mineral maps (Simon, et al. 2014).

Groundwater samples were also collected from four (4) wells. Total and dissolved lead was detected in groundwater samples, but were below USAF internal drinking water screening levels and the EPA tap water RSL. There was one (1) detection of 2,6-dinitrotolulene (DNT) that was above the EPA tap water RSL; however, the amount of DNT is below levels that affect human health based on other studies by the EPA and the Agency for Toxic Substances and Disease Registry (EA Engineering, Science, and Technology, Inc., PBC 2015).

The Final Operational Range Assessment Phase I Qualitative Assessment, Phase I Qualitative Assessment Update, and Phase II Quantitative Assessment Update report noted the presence of munitions constituents present at or near current range boundaries in soils and a single groundwater well. The report concluded there is a strong potential for munitions constituents to migrate off-range via soil transported during storm events, surface water/sediment, and groundwater. However, the levels of munitions constituents identified were not found to pose an unacceptable risk to the environment or human health. The levels of munitions constituents are below EPA acceptable daily intake levels and health advisories. The report recommends further investigation to make the determination regarding an appropriate response and plan for follow-on efforts.

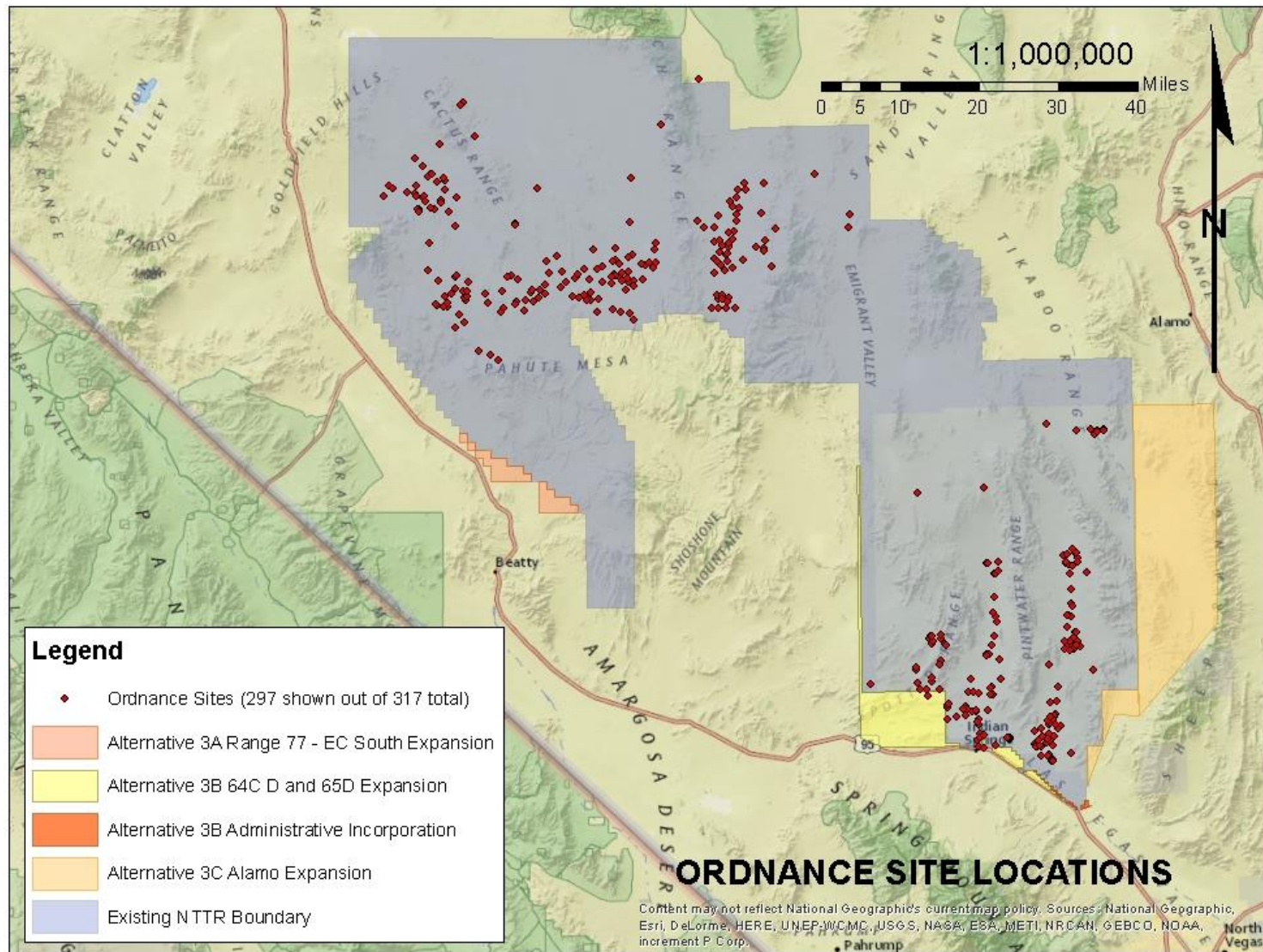
The USAF signed a Memorandum of Record in April 2015 acknowledging the potential for munition constituent migration outside the NTTR. The memorandum stated “the Air Force Civil Engineer Center shall facilitate and coordinate with the range, installation, and other stakeholders regarding range-specific response planning activities in order to determine appropriate scope of a follow-on [sic] effort” (USAF 2015).

See **Appendix E** for DoD standard screening values for operational ranges and the locations and results of the NTTR’s sampling events for soil and groundwater from 2014 (EA Engineering, Science, and Technology, Inc., PBC 2015).

Agencies other than the USAF periodically utilize the NTTR. Expended ordnance was removed post-operation by the agency responsible (USAF 1999-2016). Clean up efforts by the US Marine Corps were described as “shot and removed,” while “all explosive and target residue was removed by the Bureau of Alcohol, Tobacco, and Firearms.” See the table below for details:

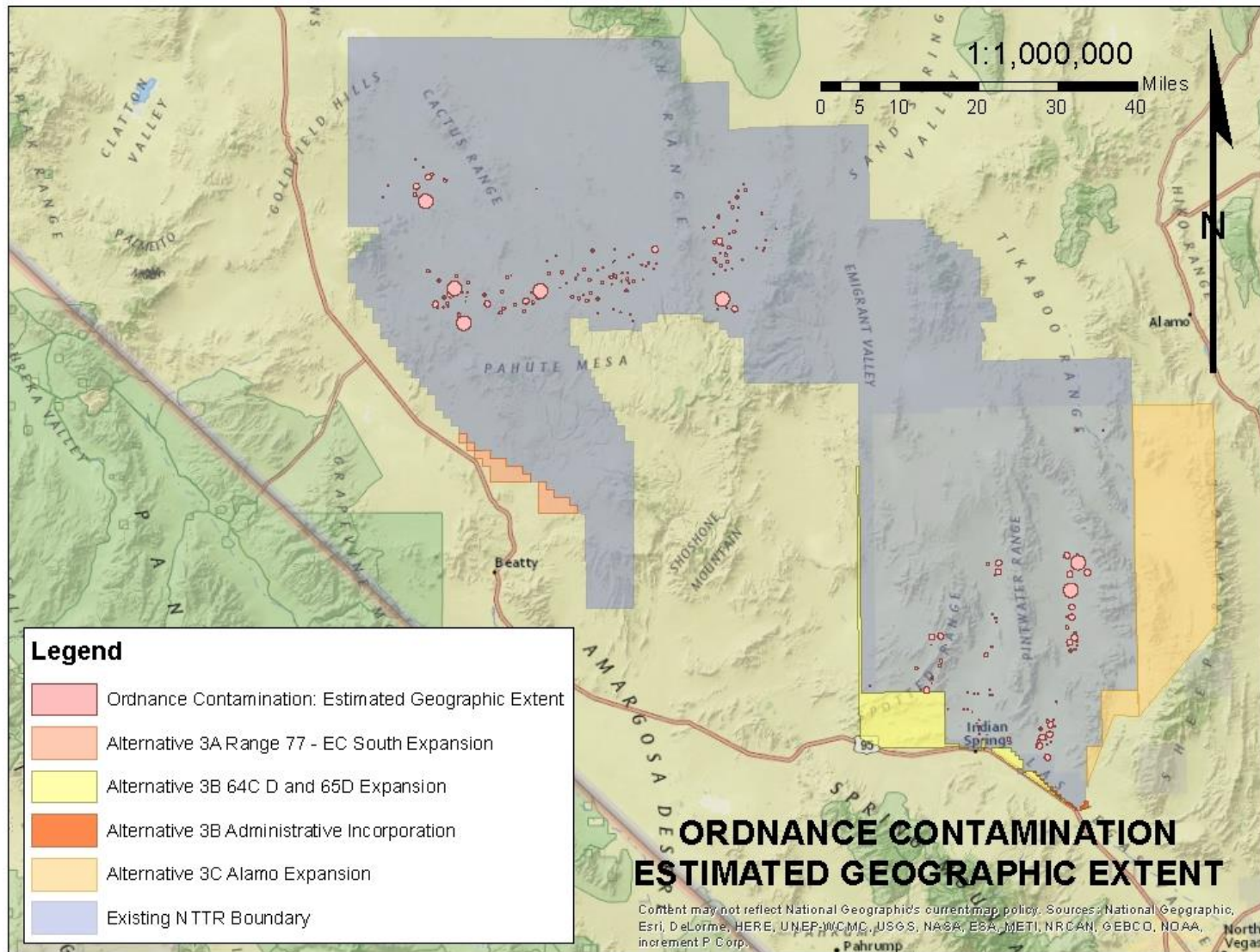
Agency	Fiscal Year	Munitions	Type	Amount
US Marine Corps	2000	Projectile	155mm D550	10 rounds
US Marine Corps	2000	Projectile	155mm D554 HE	8 rounds
US Marine Corps	2000	Projectile	155mm C449 Illumination	248 rounds
Bureau of Alcohol, Tobacco and Firearms	2000	Ammonium Nitrate Fuel Oil	--	35,000 lbs.
US Marine Corps	2001	Projectile	155mm	6 rounds
US Marine Corps	2001	Projectile	155mm	128 rounds
US Marine Corps	2001	Projectile	105mm	346 rounds
US Marine Corps	2001	Projectile	81mm	220 rounds

See **Figure 5-2** for Ordnance Contaminated Sites on the NTTR and **Figure 5-3** for the estimated geographic extent of contamination at these sites. The sites located include: active, archived, and inactive target sites provided by the USAF; those identified by NDEP record search with discoverable geographic coordinates; as well as pertinent ERP sites; and AOC sites (NDEP, USAF, DOE, Leidos, SBCC 2016).



Note: Sites are not shown to scale. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-2 Ordinance Site Locations



Note: Shown are 297 sites out of 317 total. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-3 Ordinance Contamination, Estimated Geographic Extent

5.3 RADIOLOGICAL

5.3.1 DEPLETED URANIUM (DU)

Information regarding contamination stemming from DU usage on the NTTR was reviewed from the following sources:

- **NTTR Decontamination Estimate:** The assessment provides a quantity estimate of the solid, hazardous and radiological contamination present on the NTTR. This report also details the historic and current munitions use, potential munitions constituents, and types of target material. (November 2009)
- **Potential Surface Water Transport of Depleted Uranium (DU) and Uranium Oxides on the NTTR:** The Desert Research Institute (DRI) was contracted to develop a surface water flow and transport model for the Lower Three Lakes Valley watershed containing the DU-Licensed Area to predict the path of possible migration of DU particles and DU oxides (March 2010)
- **USAF Annual Report of Continuing Decontamination (ARCD):** Yearly reports of efforts (remediation, recycling, etc.), quantities (trash, DU rounds expended, type and amount of recycled materials) expenditures, status, and future planning regarding decontamination efforts (1999-2015)

The DU licensed area is located in Range 63 and includes the target area known as Target 63-10. Target 63-10 has undergone review since licensure in 1982. The USFWS requested suspension of the use of DU in 1993 due to concerns for plants and wildlife within the overlapping territories of the NTTR and DNWR (USFWS 1994). The USAF initiated site assessments to address USFWS concerns. The assessment findings revealed no effects on soil, water, air quality, wildlife, or plants; the USFWS concurred with the findings. The site resumed activity in 2002 after a DU management plan was developed (98th Range Wing 2002).

The number and weight of DU rounds expended annually and cumulatively at Target 63-10 is provided in the annual decontamination report. The annual and cumulative DU munitions use from 1999-2015 is included in the following table (USAF 1999-2016):

Fiscal Year¹	DU Rounds Fired	DU Deposited on Range 63-10 (lbs.)	Cumulative Total of Spent DU (lbs.)
2002	7,007	4,634	65,863
2003	2,875	1,901	67,764
2004	3,118	2,063	69,827
2005	9,731	6,437	76,264
2006	5,076	3,358	79,622
2007	6,286	4,158	83,780
2008	6,445	4,263	88,043
2009	6,616	4,376	92,419
2010	11,861	7,846	100,265
2011	7,877	5,211	105,476
2012	8,613	5,697	111,173
2013	4,783	3,164	114,337
2014	9,636	6,374	120,711

Table 5.3-1 Annual and Cumulative DU Munitions Use at NTTR			
Fiscal Year¹	DU Rounds Fired	DU Deposited on Range 63-10 (lbs.)	Cumulative Total of Spent DU (lbs.)
2015	15,745	10,415	131,126
TOTAL	105,669	69,897²	131,126
¹ DU munitions reporting was not included prior to 2002. From 1999-2001 munitions were listed by type with quantity expended and included neither weight nor accumulative total ² This value is the cumulative total between 2002 and 2015, which when added to the cumulative total as of 2002 of 65,863 lbs. equals the final cumulative total of 131,126 lbs.			

The average number of DU rounds expended on the NTTR from 2002 to 2015 has been approximately 7,548. There were approximately 180 tank and vehicle targets listed on the DU Library manifest with varying degrees of contamination (Bay West 2009). The extent of this contamination was estimated from the Bay West report and is summarized below:

- The primary DU-contaminated material in the DU Library are the targets
- Although expended DU ordnance may be present in the targets, their radiation levels are relatively insignificant when compared to the contamination on the targeted tanks
- Of the approximately 180 tanks in the DU Library, 10% of the tanks (18 tanks) may be cleaned, decontaminated, and qualified for free release, while the remaining 162 tanks would not qualify for decontamination and free release but would require disposal as low-level radioactive waste.
- Each of the predominantly steel tanks weighs approximately 40,000 to 50,000 pounds each. An average weight of 45,000 pounds (22.5 tons) was used to calculate the weight of DU-contaminated tank targets. The 162 tanks that are not qualified for free release at 22.5 tons per tank yields 3,645 tons of target material from the DU Library that requires disposal

The potential for DU munition contamination migration has been addressed through previous evaluations. Brooks AFB conducted a soil assessment of approximately 250 acres to determine the extent of DU contamination and migration from Target 63-10. The assessment found little to no migration of DU in the soil to land outside of the target area, which corresponded with findings from previous environmental assessments conducted in 1975, 1988, 1995, 2000, and 2005 (USAF ACC 2006). Concentrations of DU in soil typically diminished with distance from the target array and little to no radiological contamination was observed 350 feet from each of the six (6) tanks. DU contamination was limited to DU rounds and target fragments at approximately 2,000 feet from the center of the target array (Bay West 2009).

DRI created a flow model including channel and overland flow that could model the potential transport contaminants from the DU licensed area (DRI 2010). The model was used to assess transport potential of DU particles and DU oxides during 100-year and 10-year events. Previous sampling and measurements of DU or its decay products in surface soil suggests that DU particles and DU oxides have not migrated significant distances from their original location by surface water transport (DRI 2010). Storm water events are rare but do occur in the Lower Three Lakes Valley watershed where the DU licensed area is located.

X-ray diffraction and scanning electron microscopy were used to analyze soil samples collected to determine the extent of oxide minerals present, including DU oxides (DRI 2010). Isolated areas of DU oxide deposits within the DU licensed area were found to maximum depth 0.001 ft. Results also indicated that a 100-year storm could cause transport of DU particles to a maximum estimated distance of 400 feet near the southeast corner of the DU licensed area. Therefore, transport beyond the licensed boundary is not likely. The analyses also indicated that a 10-year storm is not likely to cause transport of particles given the specific weight of the DU particles.

The modeling and sampling efforts indicate DU particles or oxides are not currently migrating outside the licensing area boundary. However, recommendations were presented to reduce the potential for future migration (DRI 2010):

- The extent of DU penetrators (intact or fragmented rounds) within active channels should be characterized and removed to the extent that is feasible. Target Area 63-10 and the DU Library are located outside of active channels.
- An area within the DU licensed area shows potential for erosion. It should be understood that locations of erosion could change over time and result in localized transport of DU oxides where none occurs today.

During an earlier radiological characterization survey of Target 63-10 in 2000, intact rounds were generally detected at a maximum depth of 12 inches (USAF ACC 2006). Only a small portion of intact rounds were detected deeper than a foot in depth. Approximately 90% of the intact rounds were at a depth of no more than 6 inches outside the target array. Based on the survey data as cited in the Bay West report, the following assumptions were made in order to estimate the mass of soil contaminated with DU:

- Soils within 350 feet of each of the six tanks in the target array were assumed to be contaminated to a depth of one foot;
- Soils from 350 feet to 1,970 feet from the center of the target array were assumed to be contaminated to a depth of six inches.

An environmental assessment for increased DU use was performed in September 2006. The assessment reported that studies have established a negligible potential for DU uptake into plants and animals under the existing conditions on the range (USAF 2006). The EA was concluded with a Finding of No Significant Impact (FONSI).

The most recent NRC inspection report from January 9, 2008 concluded the radiation safety program, training, security, and management oversight were determined to be satisfactory (Nuclear Regulatory Commission 2008).

Of the total 47,929,195 tons of residual contamination that this report estimated, the following amounts were related to DU (Bay West 2009):

- 353,000 tons – Estimated quantity of DU-contaminated soil
- 3,650 tons – Estimated quantity of DU Library Materials (targets)
- 42 tons – Estimated quantity of DU Penetrators

DU related contamination represents less than 1% of the total contamination by weight based on these values.

5.3.2 NUCLEAR TESTING MATERIALS

In addition to DU contamination from Air Force activities radiological contamination from historical DOE activities is also located within the withdrawn lands. Research on non-DU radiological contamination was assessed primarily through the following documents:

- **FFACO:** The NDEP Bureau of Federal Facilities provides programmatic and regulatory oversight of DOE's Environmental Restoration and Waste Management programs in Nevada. The Bureau provides the FFACO, quarterly progress reports and other information pertaining to the FFACO.
- **NTTR Decontamination Estimate:** The preliminary assessment provides a quantity estimate of the solid, hazardous and radiological contamination present on the NTTR. (November 2009);
- **USAF Annual Reports of Continuing Decontamination (ARCD):** Yearly reports of efforts, quantities, expenditures, status and future planning regarding decontamination (1999-2015).

The corrective action strategy described in the 1996 FFACO consists of identifying CASs and grouping them into CAUs. Efforts to identify nuclear testing materials under the FFACO revealed contamination from 878 former underground test locations, 100 atmospheric test locations, and more than 1,000 other sites from AEC/DOE operations on the NNS and portions of the NTTR according to the comprehensive NTTR Decontamination Estimate report prepared by Bay West dated November 2009. The report identifies 69 CASs relevant to the NTTR.

Navarro Inc., identified seventy-three (73) CASs on the NTTR consisting of plutonium dispersion, industrial and soil sites (Navarro Inc. 2016). Navarro is contracted to DOE Office of Legacy Management to provide legacy management support services. The DOE Office of Legacy Management ensures that post-closure responsibilities are met and for providing DOE programs for long-term surveillance and maintenance, records management, work force restructuring and benefits continuity, property management, land use planning, and community assistance. The four (4) sites appended by Navarro in addition to the 69 CASs identified by Bay West include:

- CAU 541: Small Boy plutonium plume located at Frenchman Flat
- CAU 575: two (2) sites consisting of a decontamination area and a waste disposal site
- CAU 5000: a waste disposal trench

Furthermore, an additional two sites were considered for this report's analysis that originated off-site but were found to have impacted the NTTR:

- CAU 102: the Schooner plutonium plume located at Western Pahute Mesa
- NRG-7A: a POL leak that migrated onto Range 4808A

Note that Site NRG-7A is not a CAS but is included in the analysis as falling under the responsibility of the DOE and is still included in **Figure 5-4**. The site has been remediated to below state-mandated thresholds and 84 cubic yards of soil have been removed. See **Appendix G** for a comprehensive listing of the 75 identified sites, characterization, and current status (Bay West 2009, Navarro Inc. 2016, US Air Force ACC NTTR/XPUS 2016, USAF 1999-2016) and **Figure 5-4** for CAS locations.

The process of implementing corrective action for CASs may range from no action to clean closure, where clean closure equates to removal of contamination. The corrective action strategy may involve the drafting of multiple documents including corrective action investigation work plans and reports, corrective action work plans and reports, corrective action decision documents, health assessments, and risk assessments.

A corrective action investigation may be conducted to gather data to characterize contamination at CASs. The corrective action investigation plan provides information for such investigation activities. The corrective action decision document describes corrective action that is based off of the investigation activities and analysis of alternative methods for consideration. The corrective action plan outlines corrective action measures if required through the decision document. Additionally, a corrective action

unit work plan may be drafted for a CAU or collection of CAUs that are similar. This may include management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information (NDEP, DOE, DoD 1996).

Some of the closed CASs present on the NTTR have undergone closure processes under the Streamlined Approach for Environmental Restoration (SAFER). A SAFER plan may be implemented when certain criteria are met such as conceptual corrective actions that are clearly identified and the uncertainty of the corrective action has an acceptable level of risk. Decision points developed in cooperation with NDEP are used for making data quality objective decisions for conducting corrective actions. The purpose of the investigation phase in the SAFER process is to verify the adequacy of existing information to implement the corrective action (NNSA 2005).

Closure in place under the FFAO means “the stabilization or isolation of pollutants, hazardous wastes and solid wastes, with or without partial treatment, removal activities and/or post-closure monitoring, completed in accordance with corrective action plans” (NDEP, DOE, DoD 1996). This remaining level of contamination may require land use controls (i.e., access restriction) and/or long-term monitoring, but at a minimum requires implementation of administrative controls to prevent unauthorized future land use (i.e., appropriate land use designations). Use restriction data for these areas may be recorded in the NNS Management and Operating Contractor GIS database, the FFAO database, and the USAF GIS database.

DOE and NDEP have agreed that it is not economically realistic to clean close certain sites, especially while restricted from public use. The surface contamination has been demonstrated to be very immobile and closure work on the various sites has demonstrated that there has been little if any migration of surface contamination over the years. Closed sites would be re-evaluated in light of newly identified conditions (NDEP 2016).

Sixty-five (65) CASs on the NTTR were closed according to the FFAO quarterly reports (NDEP, NNSA, Defense Threat Reduction Agency, Office of Legacy Management 2009). A summary of the relevant CASs from the FFAO and NRG-7A are included below:

- Thirty-nine (39) sites have been clean closed;
- Three (3) sites have been closed in place;
- Twenty-two (22) sites have been closed but continue to require monitoring;
- Two (2) sites have undergone uncharacterized closure, and been designated for No Further Action;
- Nine (9) sites are currently undergoing characterization, investigation, or remediation; or are in the final closure process.

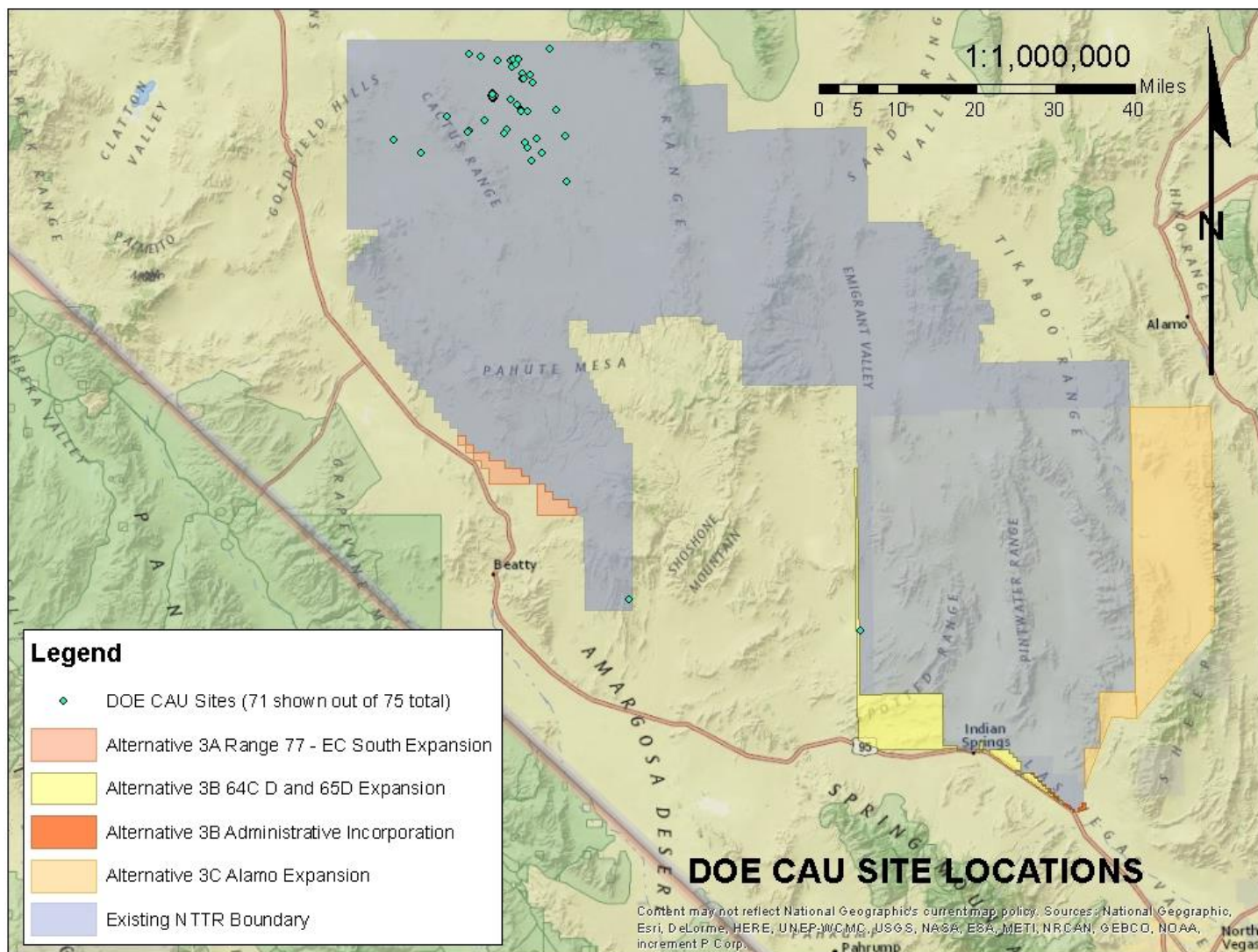
However, the ARCD, from fiscal year 2015, states only twelve (12) DOE sites were closed in place on the NTTR (USAF 1999-2016). These twelve (12) sites were described as investigated and closed under the FFAO agreement with NDEP. There are currently no plans for further remediation at the twelve (12) sites listed in the ARCD. DOE continues to conduct inspections at these sites to ensure that required fencing is in good condition and that postings remain and are legible.

Seven (7) of the eight (8) remaining open CAUs are areas where atmospheric testing or plutonium dispersion testing occurred and include CAU 102 Schooner/Western Pahute Mesa, CAU 411 Double Tracks, CAU 412 Clean Slate I, CAU 413 Clean Slate II, CAU 414 Clean Slate III, CAU 415 Project 57 No. 1, and CAU 542 Small Boy. These sites have undergone extensive study. See **Appendix H** for a summary of significant study activities at the seven (7) testing sites. The remaining CAU (CAU 575 consisting of two sites) is a decontamination area and waste disposal site that is open per the FFAO but was closed per Navarro data through the SAFER process in December 2014. See **Figure 5-5** for the relevant plutonium contaminated sites.

Investigations are planned to determine if contamination at these sites could result in a dose of ≥ 25 millirems per year (mrem/yr) based on current and future land use (USAF 1999-2016). Land use

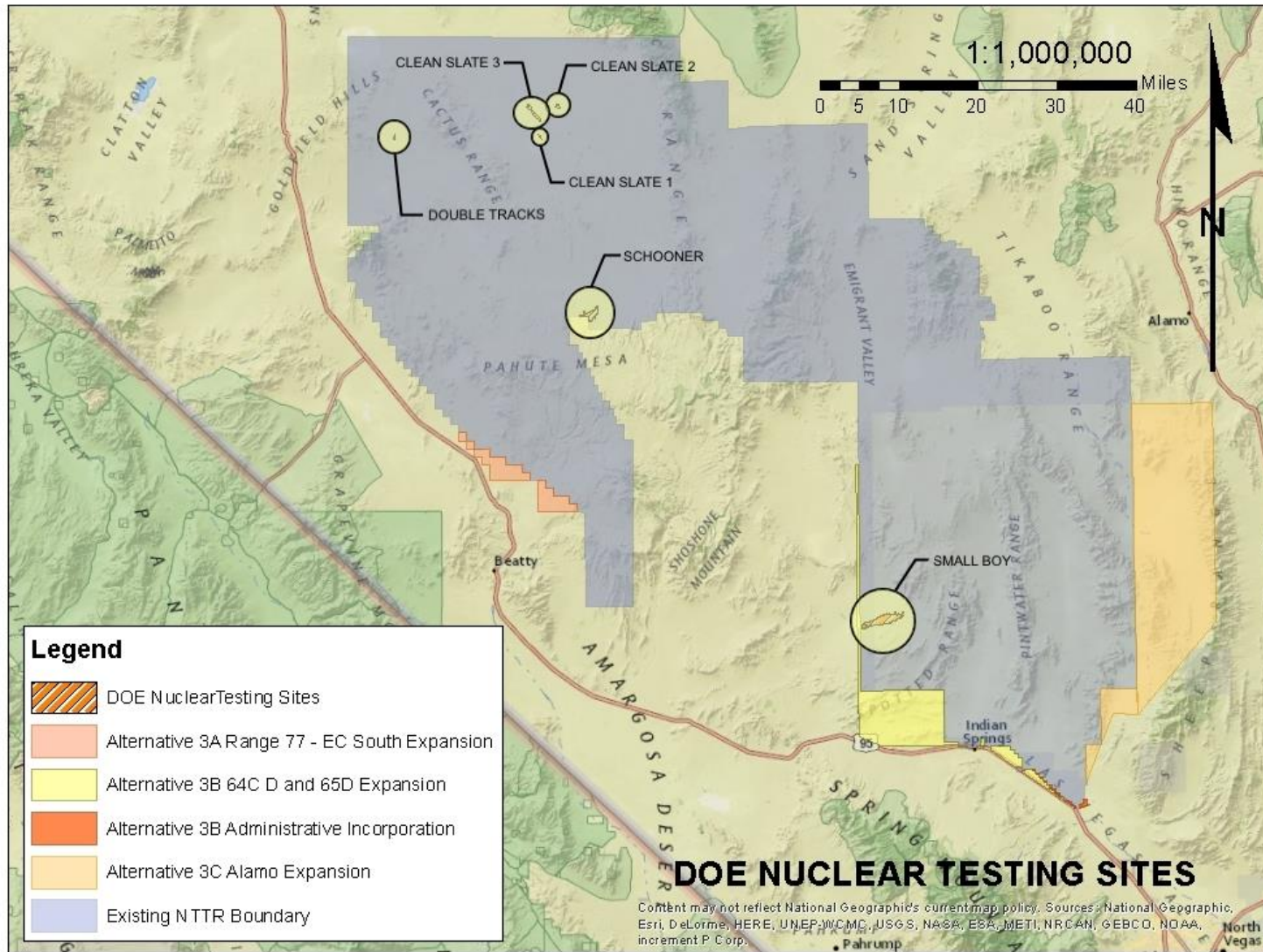
scenarios will be determined in conjunction with the USAF. Any areas identified as presenting a dose of ≥ 25 mrem/yr will require corrective action. Corrective actions may include fencing, signage, and/or annual inspections. The technical working group consisting of DOE/NNSA, NDEP, and the USAF made additional progress in fiscal year 2015 toward FFACO closure of the plutonium contamination present on the NTTR (USAF 1999-2016). These actions include:

- Characterization and monitoring of groundwater related to the underground test area activity;
- Participation in technical working group and planning meetings;
- Development of data quality objectives and completion of the Draft Corrective Action Investigation Plan document for closure of the Clean Slate II site;
- Development of the Draft Corrective Action Decision Document/Closure Report document for Small Boy;
- Development of the Final Streamlined Approach for Environmental Restoration Plans for Double Tracks and Clean Slate I, with associated field investigation;
- Radiological survey and characterization of contaminated debris outside the posted Contamination Area at Clean Slate II, resulting in the removal of approximately 1,500 lbs. of contaminated debris. The waste is presently being managed and will be disposed of as low-level waste in Area 5 at the NTS;
- Provided radiological control support to the USAF School of Aerospace Medicine for field investigation and sampling activities at Clean Slate I and Clean Slate II



Note: Sites are not shown to scale. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-4 DOE CAU Site Locations



Note: Unmapped sites were outside of the scope of this report or lacked discoverable coordinates.

Figure 5-5 DOE Nuclear Testing Sites

5.4 ENVIRONMENTAL CHARACTERIZATION EFFORTS

The items in this section are characterization efforts that span the three categories of contamination used in the organization of this document. A wide variety of materials are needed to fulfill mission parameters across the NTTR. The USAF is currently subject to several environmental programs that are used to investigate, manage, and remediate known contaminated sites. This section describes these programs and their impacts to the NTTR. Information regarding contaminants was compiled from the following resources in addition to other public records:

- **Environmental Restoration Program:** The USAF developed the Environmental Restoration Program (ERP), formerly the Installation Restoration Program (IRP), to identify and investigate potentially hazardous material disposal sites on USAF property
- **Preliminary Assessment Report, Nellis Air Force Base, Nevada Test and Training Range, Areas of Concern, Project No. RKXF20017021:** The purpose of this preliminary assessment was to determine the potential for environmental contamination at 73 AOC sites within the NTTR. The AOC sites consist of dormant target sites; munitions and target debris piles; known or possible disposal pits that may contain target debris, munitions debris and/or construction debris; potential open burn/open detonation areas; and aircraft crash sites (February 2003)
- **NTTR Decontamination Estimate:** The preliminary assessment provides a quantity estimate of the solid, hazardous and radiological contamination present on the NTTR, as well as munitions related sources on the NTTR (November 2009)
- **Reports of Continuing Decontamination:** MLWA section 3017 requires that for the duration lands remain withdrawn a program of decontamination shall be maintained to the extent of funds available and to the level consistent with applicable Federal and State Law. Annual reports are submitted describing the decontamination efforts undertaken during the previous fiscal year and decontamination activities proposed for the next fiscal year (1999-2015)
- **NDEP Reporting of Confirmed Releases:** NDEP spill response records (January 1, 1900 to July 06, 2016)

5.4.1 ENVIRONMENTAL RESTORATION PROGRAM (ERP)

The USAF developed the ERP to identify and investigate potentially hazardous substance, pollutant, or contaminant release sites on USAF property. The program was established by Section 211 of the Superfund Amendments and Reauthorization Act of 1986 (Pollution Prevention Infohouse 1999). Restoration activities also include (USAF 2016):

- Correcting other environmental damage (such as damage caused by detection and disposal of UXOs on other than operational ranges) that creates an imminent and substantial endangerment to the public health or welfare or to the environment and;
- Demolishing and removing unsafe buildings and structures, including buildings and structures of the Air Force at sites formerly used by or under the jurisdiction of the Secretary of the Air Force.

The objective of the ERP was to evaluate whether migration of any hazardous contaminants has occurred and to control or eliminate hazards to human health and the environment. Ninety-eight (98) ERP sites have been identified on the range since the program's inception in 1982.

The majority of ERP sites consist of EOD pits with a mixture of target debris, metal and munitions residue that were closed in the mid-1990s. However, ERP sites also include spills, sewage lagoons, and other sites that required correspondence with NDEP.

The sites are broken down by category below. A comprehensive listing of the ERP sites is included in **Appendix I**.

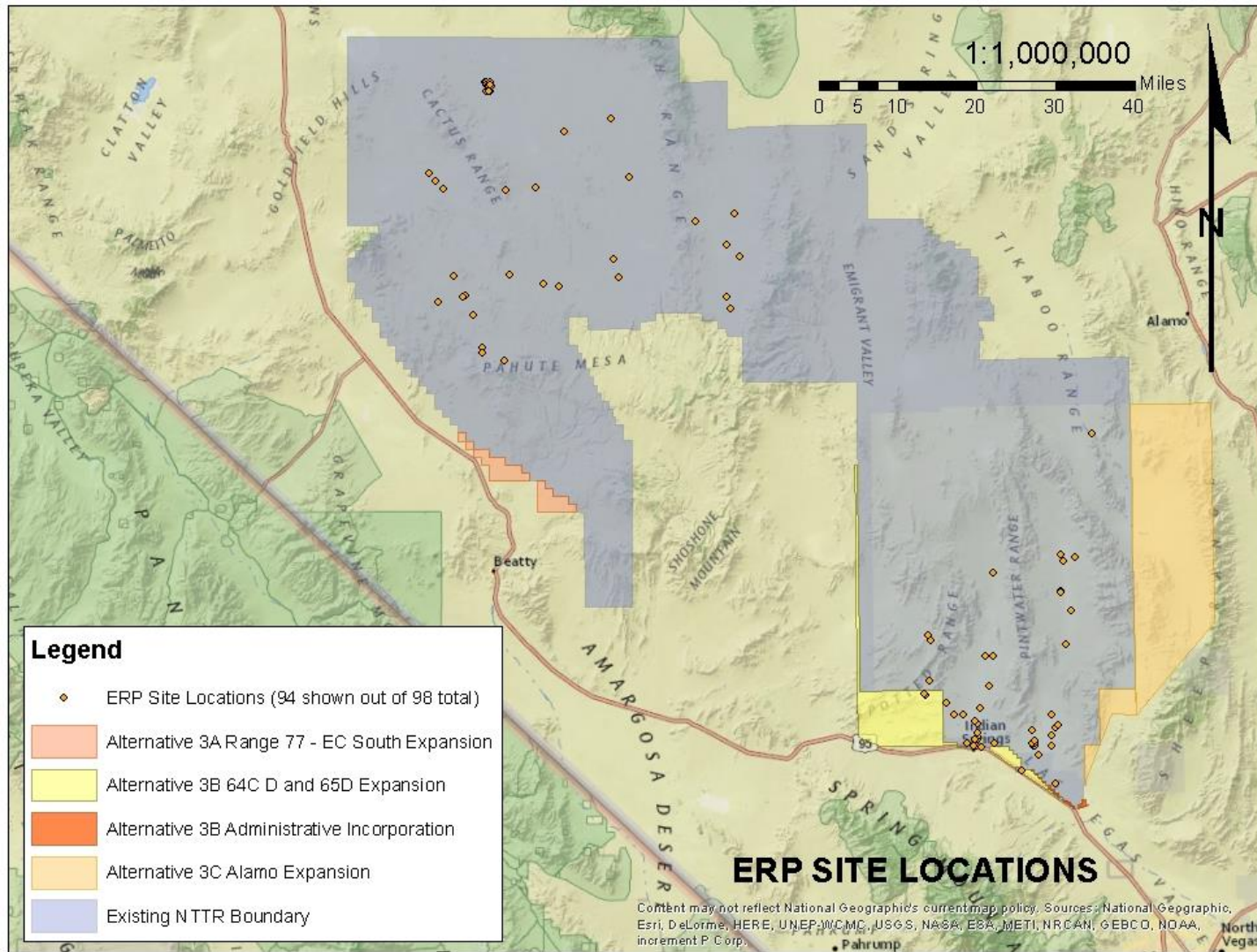
- Forty (40) EOD pits;
- Twenty-one (21) disposal pits;
- Six (6) landfills (closed, unspecified, general refuse, munitions, munitions and general refuse, and vehicle parts and targets);
- Four (4) burn pits;
- Four (4) leach fields;
- Three (3) munitions burial;
- Two (2) mine shafts
- Two (2) aircraft parts pits and;
- One (1) of each category: Coronet Clean area, drainage ditch (oil and fire retardant), dump area (shop fluids), fire training area (fuel and oil), fuel station spill, fuel tank storage, fuel training area (fuel), fuel transfer area (jet fuel), oil spreading site (POL, 400 gallons waste), sewage lagoon (sludge), sewage treatment area (sewage sludge and effluent), trash piles, UST grouping and leach field, wash down area (radioactive dust), and wash rack drainage (oil, fuel).

The ERP process begins with a preliminary assessment. The preliminary assessment is designed to identify and evaluate past disposal and/or spill sites that might pose a potential or actual hazard to public health, public welfare, or the environment. The assessment tasks are accomplished through records searches, document review, and personnel interviews.

A site investigation may be conducted if the findings of the preliminary assessment suggest that contamination is present. The site investigation consists of field activities designed to confirm the presence or absence of contamination. A remedial investigation may then be performed if it is necessary to quantify and identify the site contaminants, the extent of the contaminant plume, and pathways of contaminant migration. The findings from the preliminary assessment, site investigation, and remedial investigation may result in one or more of the following options (USAF 1997):

- **No Further Action (NFA):** Investigations that do not reveal contamination that pose a significant threat to human health or the environment may be issued a decision document stating NFA by NDEP and end a corrective action.
- **Long-term Monitoring:** Evaluations that do not detect significant contamination to justify costly remediation may continue to be monitored. This category includes sites that are approved for natural attenuation as the method of remediation.
- **Feasibility Study:** Investigations that confirm the presence of contamination that may pose a threat to human health or the environment may require a feasibility study. The feasibility study is designed and developed to identify and select the most appropriate remediation method.

Eighty-five (85) out of 98 sites were evaluated at the time of the 1997 contamination report. Sixty-five (65) of the sites were recommended for NFA status with the remaining 20 sites recommended for feasibility studies through site investigation. Ninety-seven (97) out of the 98 ERP sites acquired NFA determinations by decision documents as of 2008. The remaining site is a fuel station spill (case ST-54) located in the North Range that has NDEP “no action at this time” correspondence. See **Figure 5-6** for locations of ERP sites on the NTTR.



Note: Sites are not shown to scale. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-6 ERP Site Locations

5.4.2 AREAS OF CONCERN (AOC)

A characterization for AOC sites was conducted by the USAF as reported in February 2003. The assessment was conducted to recommend sites for further action under the ERP or to recommend sites that pose no significant or potential threat to public health or to the environment for NFA status and removal from further ERP consideration (USAF 2003).

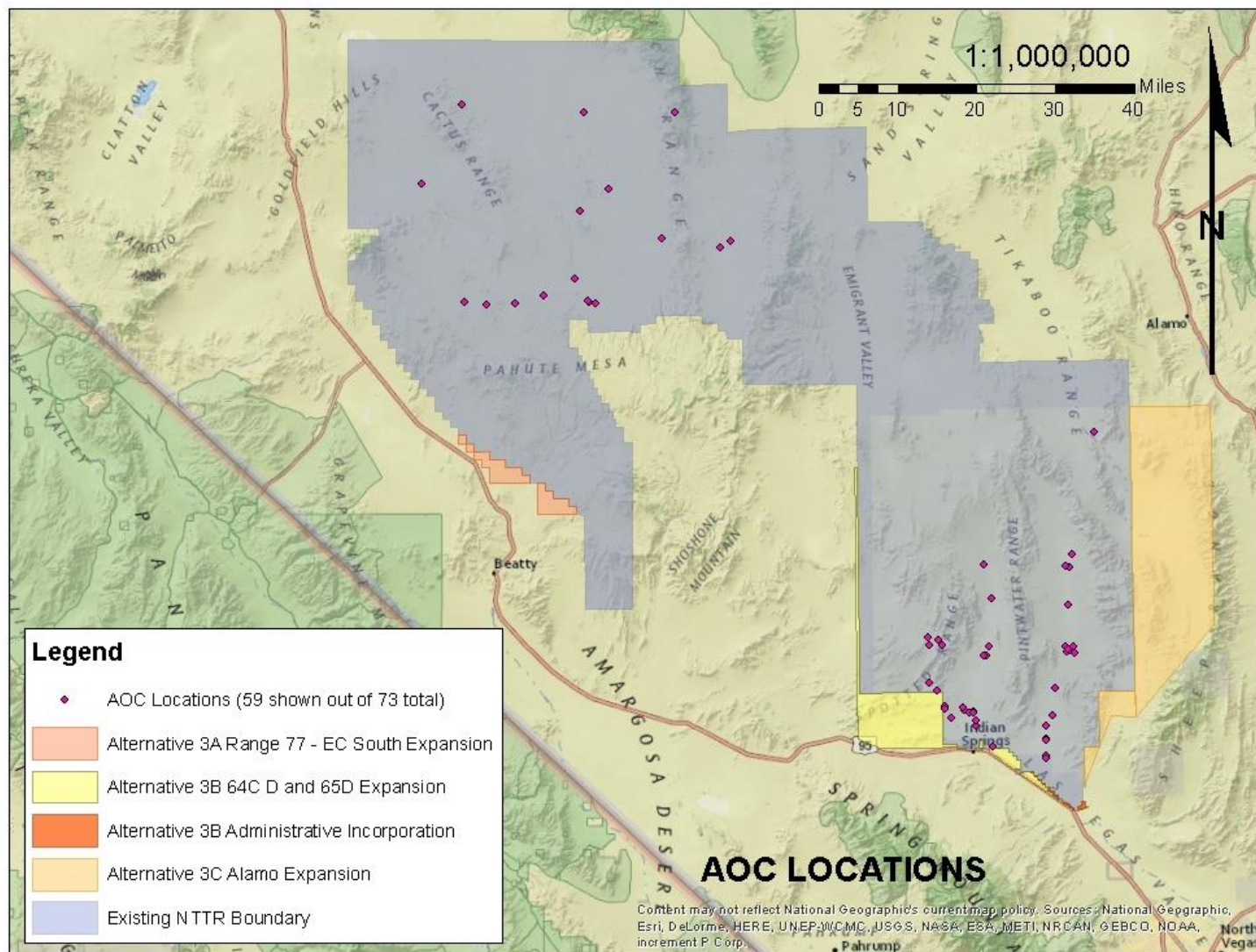
The 73 AOC sites consisted of dormant target sites, munitions and target debris piles, known or possible disposal pits that may have contained target debris, munitions debris and/or construction debris, potential open burn/open detonation areas, and aircraft crash sites. The report noted previous site investigations that inventoried forty-seven (47) AOC sites located in the southern region of the NTTR and twenty-four (24) AOC sites are located in the northern region of the NTTR. The details and locations of two (2) sites are unknown. The AOC report summary states that thirty-four (34) of the AOC sites were also identified with the ERP sites, thirty-seven (37) were not identified with the ERP sites and two (2) were noted as unknown as previously stated. However, within the AOC report, per the individual site descriptions, only eighteen (18) AOC sites were designated as former or current ERP sites. Within the AOC report, there is a discrepancy between the summary and the individual site descriptions and the real number of sites that overlap between the AOC and ERP programs is not clear.

The 2003 AOC assessment scope of work included (USAF 2003):

- Background information through records review;
- Interviews conducted with 98th Range Wing and NTTR contractor personnel who have knowledge of current and past activities and conditions at each AOC site and;
- Non-intrusive instrumental and visual site observations gathered from each of the AOC sites, complete with photo-documentation.

A number of AOC sites were recommended for site investigation or corrective action(s). Corrective action methods described were: engineering controls to repair disposal pit covers or to fill and cap, with soil, partially filled trench disposal pits; engineering controls to fill and cap open trenches with soil; removal and proper disposal of remaining debris and; permanent markers placed at the site to identify the occurrence of disposal pits.

The USAF reports of continuing decontamination mentioned a site investigation report that determined the 73 identified AOC sites did not pose a threat to human health under current land usage as of fiscal year 2006 (USAF, 1999-2016). NDEP concurred with the conclusion (USAF 1999-2016). It is noted that if the NTTR closed, its future land use will be one of the principle determinants of decontamination. On reverting to another land manager, the future use of these lands and the cost estimate in time and dollars will be developed in light of current decontamination standards and technologies (USAF 1999-2016). See **Figure 5-7** for locations of AOC sites on the NTTR. Refer to **Appendix J** for a list of AOC sites.



Note: Sites are not shown to scale. Unmapped sites were outside of the scope of this report or lacked documented coordinates.

Figure 5-7 AOC Site Locations

5.4.3 DECONTAMINATION ESTIMATE

Bay West, Inc. was contracted by the USAF to complete a Decontamination Estimate Report of the NTTR that was issued in November 2009. The purpose of the report was to estimate the quantity and types of contamination, the expense of full decontamination in the event the NTTR was returned to public use, and the time to complete decontamination. The report was based on the following information:

- A preliminary assessment that outlines historic and current munitions use, potential munition constituents, target material types, target disposal practices, and other contaminants (solid, hazardous, and radiological)
- Results from soil sampling to identify munitions constituents at select target complexes as recommended by the preliminary assessment
- A technical analysis report derived from previously collected data including the soil sampling. This report provided recommendations for methods of estimating the type and amount of residual contamination along with costs and time for decontamination of the NTTR (Bay West 2009).

It should be noted that the assessment did not include the NNSS or radiological impacts from AEC/DOE legacy sites on the NTTR. However, estimated remediation costs for AEC/DOE legacy sites that were reported to the USAF by the AEC/DOE were included as an appendix into their report.

Previous site investigations involving surface soil sampling that were used by Bay West to estimate contamination at the NTTR occurred in 1996 (Baker, USAF 1996) and 2007 (Weston Solutions, Inc. 2007). Soil sampling results from these investigations were compared against EPA residential preliminary remediation goals that serve as risk-based conservative screening values. Samples taken in 1996 found that concentrations of the explosives 2,4,6-trinitrotoluene (TNT) and RDX (also known as cyclonite) exceeded the preliminary remediation goals action limits within disturbed soils near the target areas. Samples taken in 2007 contained these constituents but were below the preliminary remediation goals (Bay West 2009). It was assumed for the estimate that munitions contaminated soil went to a depth of two (2) feet below ground surface.

Three hundred and sixty-two (362) sites, including ERP and AOC sites, were categorized into various hazardous material groupings and reviewed for estimating purposes. The USAF identified 98 ERP sites and 73 AOC sites (USACE 2007, USAF 1999-2016), while Bay West identified 99 ERP sites and 183 AOC sites (Bay West 2009). The Bay West remediation sites total 282 sites; however, some of the site listings may contain multiple locations. For example, 102 USTs within the TTR area were listed as a single site designation (**Appendix K**). The difference between this total and the reported 362 may be due to the site designations that break out select entries. The sites grouped into 14 categories are provided in the following table (Bay West 2009):

Category	Number of Sites
Munitions Pits and Piles <1 acre in size	76
Munitions Pits and Piles between 1 and 5 acres in size	43
Munitions Pits and Piles >5 acres in size	5
Fuel and Oil Sites	167
Non-Hazardous Waste Sites	20
Hazardous Waste Sites	13
Crash Sites	8
Septic Tank and Leachfield Sites	7
Demolition Debris Sites	5

Table 5.4-1 Potential Remediation Sites at NTTR	
Category	Number of Sites
Landfills	5
Acid Neutralization Basins	4
Drum Storage Areas	4
Pesticide and Herbicide Sites	3
Research Parts Disposal Pits	2
TOTAL	362

The 362 sites were determined to potentially need additional remediation in order to meet the strict full decontamination standard established by PL106-65. The quantity estimates were based on the approximated volume of potentially contaminated soil and/or waste that would be removed under the full decontamination standard. A land use change would likely result in the reintroduction of regulatory action for NFA sites. The NFA designation letters from the NDEP concluded “because of the mentioned findings, this site should require ‘No Further Action’, unless future information is forthcoming which would necessitate the reevaluation of this site” (Bay West 2009). This was interpreted as contamination must meet the strict standard of “full decontamination” in PL 106-65 if the land were to be made available for public use. It was also assumed that the landfills were properly permitted and would not be removed as a result of NTTR land use change (Bay West 2009).

The results found an estimated total of 47,929,195 tons of residual contamination. The USAF decontamination estimate reports since fiscal year 2010 note the following amounts and types of residual contamination also as reported by Bay West:

- 47,929,195 tons – Most likely quantity of residual contamination
 - 47,100,000 tons – Most likely quantity of munitions constituent contaminated soil
 - 126,400 tons – Most likely quantity of legacy munitions debris
 - 346,000 tons – Most likely quantity of hazardous materials
 - 353,000 tons – Estimated quantity of DU contaminated soil
 - 3,650 tons – Estimated quantity of DU library materials
 - 42 tons – Estimated quantity of DU penetrators

Note that the total estimated quantity of residual contamination is greater than the sum of the estimates given for the categories.

5.5 EXPANSION AREAS

Historic activities within these areas include animal grazing and mining. Historic mining activities are highly likely to have occurred on and around the NTTR. The Transvaal mining area partially located in the EC South expansion area has low potential for gold and silver mineral resources as defined in the 1997 Mineral and Energy Resource Assessment of the NAFR (Nevada Bureau of Mines and Geology; TRC Mariah Associates 1997). There is a potential for contamination from mining and mineral extraction processes that may have occurred from such small, historic operations; however, documented cases have not been identified at this time. Potential contamination from agricultural processes can include lagoons, leach fields, and fuel tanks. However, contamination resulting from historical agricultural processes has not been identified.

FINAL Contamination Analysis Report

A series of state and federal regulatory databases were reviewed for relevant entries within the NTTR and proposed expansion areas. Contamination issue documentation was not identified. The environmental databases consulted are included in the References chapter. Additionally, USFWS was consulted and contamination issues were not noted. BLM was contacted but was unavailable for phone interview. The most recent BLM EIS (BLM 2014) was reviewed and contamination issues were not identified within these areas.

EXISTING CONDITIONS

Chapter 4 presented the different types and sources of contamination on the NTTR along with its management and Chapter 5 identified historical contamination. This chapter intends to identify existing contamination.

5.6 OPERATIONS AND MAINTENANCE

O&M contamination represents a minor portion of the contamination currently existing on the NTTR. The total estimated area for O&M contaminated sites is 691 acres (Bay West 2009, USAF 2003, NDEP 2016, USACE 2007). This represents less than 0.03% of the 2.9 million acres of the NTTR and less than 2% of the total contaminated acreage.

Potential sources of this type of contamination include permitted facilities that centralize hazardous material or hazardous waste, dispose of waste or could otherwise introduce contamination into the environment. A listing of existing hazardous material used on the NTTR is included in **Appendix A**. Storage tank totals that were taken from the EPCRA Tier II Reporting Data for fiscal year 2015, which is included in **Appendix D** (USAF 2016). The potential sources of contamination are summarized in the following table:

Table 5.6-1 Potential Sources of Contamination			
Potential Source of Contamination	Potential Source/ Quantity	Permit Number	Documented Contamination
Creech AFB			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Hazardous Waste Storage	180 Day Pad	NV5570024112	No
Antifreeze Recycling	Antifreeze	NV0570090019	No
Wastewater Treatment System	30-Day Avg – 0.145 MGD Daily Max – 0.174 MGD	NEV60030	Yes
Closed Wastewater Treatment Ponds	Unknown	Closed	No
Aboveground Storage Tanks	80 Tanks	N/A	No
Class II Municipal Solid Waste Landfill	76 acres	Closed	No
Tonopah Test Range Industrial Area			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Hazardous Waste Storage	90 Day Pad	NV5570024112	No
Antifreeze Recycling	Antifreeze	NV5570024112	
Wastewater Treatment System	30-Day Avg – 0.375 MGD Daily Max – 0.672 MGD	NEV20001	No
Underground Storage Tanks	1 Tank	N/A	No
Aboveground Storage Tanks	11 Tanks	N/A	No
Class II Municipal Solid Waste Landfill	Volume: 726,800 cu. yd	SW209REV01	No

Table 5.6-1 Potential Sources of Contamination			
Potential Source of Contamination	Potential Source/ Quantity	Permit Number	Documented Contamination
Class III Construction Landfill	Construction Debris	SWW396	No
Class III Construction Landfill (also notes Cedar Pass)	Construction Debris	SWW1780	No
Heating Oil Underground Storage Tanks	64 Tanks	N/A	Yes
Sandia National Laboratories at Tonopah Test Range			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Hazardous Waste Storage	180 Day Pad	NV1890011991	No
Stormwater Construction (SWPPP) for two (2) projects <ul style="list-style-type: none"> • Fiber Optic Cable Installation • TTR Test Unit Recovery Operations 	Stormwater runoff from construction sites	NVR100000	No
Tonopah Test Range Mancamp			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Heating Oil Underground Storage Tanks	4 Tanks	N/A	Yes
Tolicha Peak Electronic Combat Range			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Underground Storage Tanks	1 Tank	N/A	No
TECR O&M Compound			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Cedar Pass Industrial Facilities			
Hazardous Material Storage	Per the Environmental Management System	N/A	No
Wastewater Treatment System	30-Day Avg – 0.018 MGD Daily Max – 0.023 MGD	NEV95014	No
Range 63C (formerly Silver Flag Alpha)			
Hazardous Material Storage	Small quantities for routine maintenance	N/A	No
Aboveground Storage Tanks	1 Tank	N/A	No
Point Bravo and Targets			
Hazardous Material Storage	Small quantities for routine maintenance	N/A	No
Aboveground Storage Tanks	4 Tanks	N/A	No

Multiple spills and aircraft mishaps have occurred under NDEP reportable conditions. A records review revealed three (3) currently open cases as of July 6, 2016 (NDEP 2016) (site locations included in **Figure 6-1** and **Figure 6-2**).

- **Osprey Crash Site:** "Hard" landing by CV-22 Osprey. Aircraft destroyed in crash and resulting fire with approximately 1,250 gallons of jet/aviation fuel on board, some of which was released. Removed carbon fiber aircraft parts. Elevated TPH remains in soil.
 - Report Date: 8/27/2013
 - Location: Creech Air Force Base, US Highway 95, Indian Springs 89108
 - Site ID: H-000882
 - Status: Under Investigation
- **Pipeline:** Release of jet/aviation fuel to soil from an inactive pipeline from the bulk terminal towards the ramp area.
 - Report Date: 6/10/2014
 - Location: Creech Air Force Base, US Highway 95, Indian Springs 89108
 - Site ID: H-000882
 - Status: Confirmed release
- **F-16 Crash Site:** Disconnected hose led to diesel release to soil.
 - Report Date: 3/24/2015
 - Location: Northwest of Mesquite, Rural
 - Site ID: G-000009
 - Status: Under Investigation

There are two (2) additional incidents being tracked through the USAF that are not found in the NDEP open cases confirmed release list:

- **Drone Crash:** Crash reported June 15, 2016. The drone crashed, burned on impact, and was washed downgradient by stormwater.
- **Fuel Tank Jettison:** A 300-gallon fuel tank was jettisoned sometime during the last week of June, 2016. At the time of this report, efforts are still being made to locate and characterize the incident.

Although the cases are not found through the NDEP open cases confirmed releases list, the drone crash was identifiable on the NDEP eMap.

The sites will have to meet NDEP and other regulatory requirements to receive closure. The incidents discussed in this section are not anticipated to have a significant impact to the environment given their size in relation to the overall area of the NTTR.

Regarding the identified eleven (11) USTs federally registered and listed with NDEP in **Appendix C**, none were known to be leaking as of July 2016 per the active cases of confirmed releases listings (NDEP 2016).

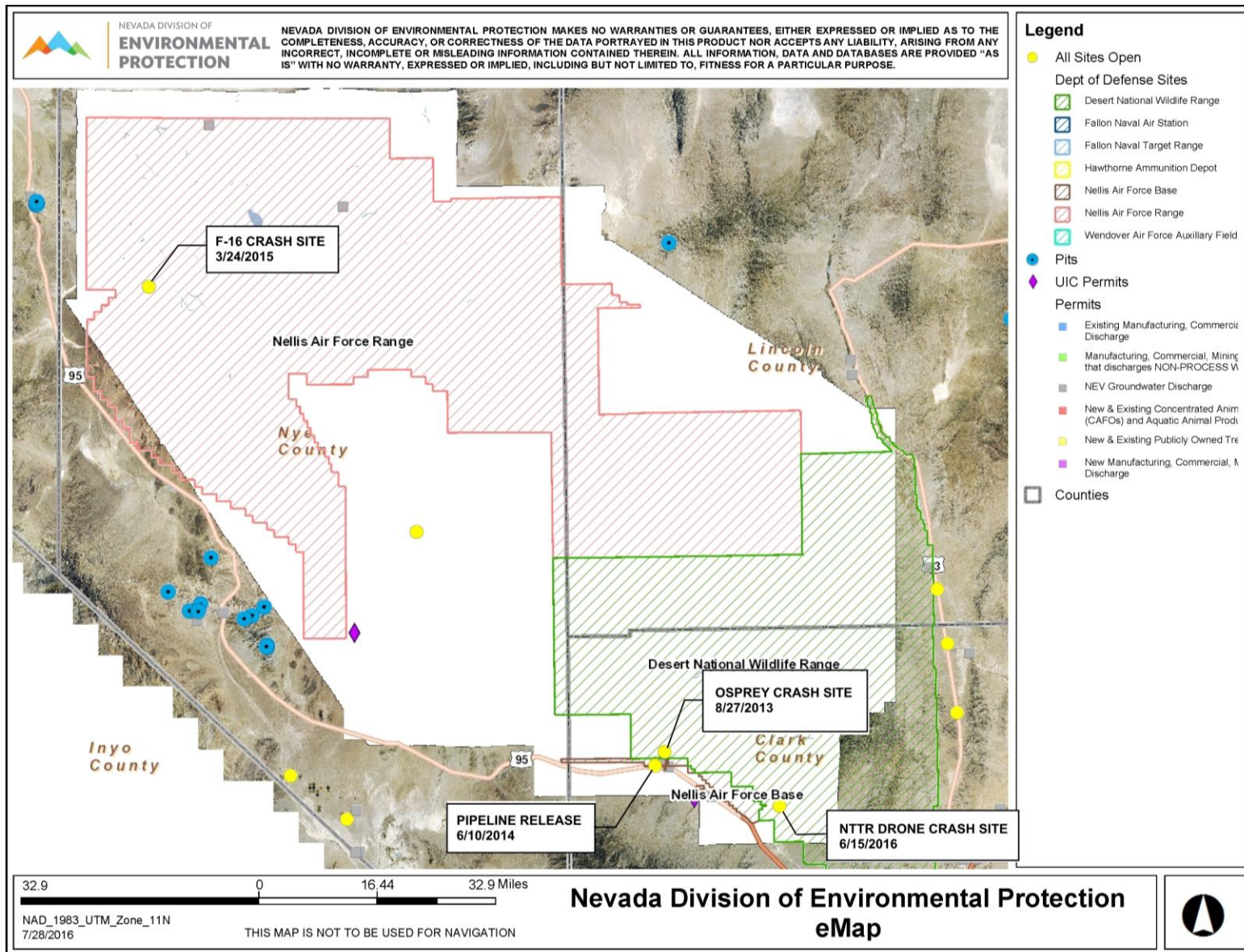


Figure 6-1 Confirmed Release Open Cases (NDEP 2016)

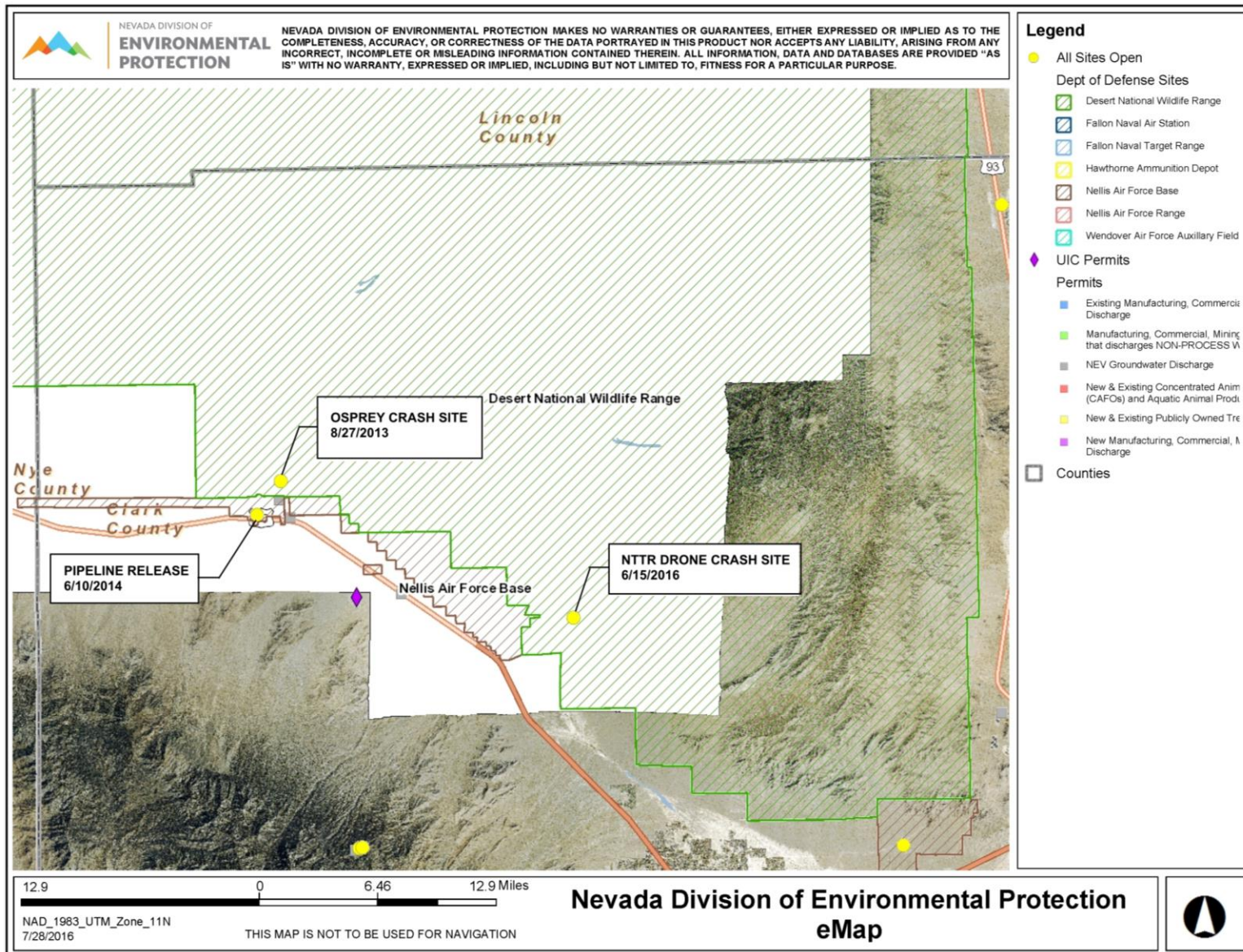


Figure 6-2 Confirmed Release Open Cases located within the South Range (NDEP 2016)

Sources of contamination are evaluated on an on-going basis as new information becomes available. The EPA has recently classified some constituents in aqueous film-forming foam as emerging contaminants (EPA 2014). Fire training and fire suppression exercises involving these constituents have taken place at the NTTR. Aqueous film forming foam (AFFF) was used as a fire suppressant for such training and equipment maintenance starting in 1970 (Oneida Total Integrated Enterprises 2016).

AFFF may contain perfluorinated compounds (PFCs) or perfluorooctane sulfonate; however, manufacturers reformulated AFFF to eliminate perfluorooctane sulfonate in the early 2000s. PFCs are not regulated under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) or RCRA. The EPA continues to permit use of perfluorooctane sulfonate based AFFF and civilian and military airports continue to maintain an inventory of product.

Oneida Total Integrated Enterprises is in the process of developing a Uniform Federal Policy for Quality Assurance Project Plan Addendum for Site Inspections of Aqueous Film Forming Foam Usage at Creech AFB that was in Draft Final phase as of August 2016 (Oneida Total Integrated Enterprises 2016). The preliminary draft reporting on potential environmental releases of PFCs notes eleven (11) sites located at Creech AFB that were evaluated during the week of January 11, 2015. A records review was also conducted for the assessment.

One site (FT-05) is an ERP site that underwent limited remediation unrelated to AFFF and was issued a NFA decision document. Nine (9) other sites include the current fire training area (FTA), aircraft mishap locations where AFFF was used, and AFFF storage sites.

The sites investigated were limited to Creech AFB. The TTR also had a fire training area (FT-13) previously closed under the ERP program. The aforementioned Osprey Crash Site was also recommended for site investigation. The report cited a release of AFFF (assumed medium to high volume) onto unpaved ground during the emergency response. The Osprey site is to be eliminated from consideration in the Final Preliminary Assessment as it is out of scope. The Osprey site will be addressed elsewhere in the future, per project planning session summaries (Oneida Total Integrated Enterprises 2016).

Locations were categorized into four (4) groups based on the presence and projected quantity of AFFF released:

- Group 1: AFFF release confirmed, medium or high volume release anticipated;
- Group 2: AFFF release confirmed, low volume release anticipated;
- Group 3: AFFF release not confirmed, potential low volume release;
- Group 4: No reported or suspected AFFF release.

The draft report did not quantify amounts under low, medium, and high volume release categories.

The findings and potential future management recommendations for the sites evaluated during the preliminary assessment report are summarized below (Oneida Total Integrated Enterprises 2016):

Table 5.6-2 Aqueous Film-forming Foam Usage Sites and Prospective Actions			
Site	Group	Rationale	Recommended Action
Former FTA (FT-05)	1	AFFF used during training exercises until site closure in 1990. Likelihood of 20 years of repeated AFFF releases. Former FTA unlined; AFFF releases infiltrated into ground.	Initiate site investigation

Table 5.6-2 Aqueous Film-forming Foam Usage Sites and Prospective Actions			
Site	Group	Rationale	Recommended Action
Current FTA	4	No history of AFFF usage.	No further remedial action planned
Hanger 707	2	AFFF fire suppression system is in place; no releases reported from suppression system. Low volume of AFFF released onto pavement during biennial system testing; cumulative release may be low to medium volume. Potential for historical releases from ASTs.	Initiate site investigation
Hanger 718	2	AFFF fire suppression system is in place; no releases reported from suppression system. Low volume of AFFF released onto pavement during biennial system testing; cumulative release may be low to medium volume. Potential for historical releases from ASTs.	Initiate site investigation
Fire Station #1 (Bldg. 85)	3	Storage of AFFF-supplied fire emergency vehicles; no releases reported. Potential for low volume releases onto paved surfaces during fire vehicle resupply.	Initiate site investigation
Fire Station #2 (Bldg. 1150)	3	Current AFFF stock storage and storage of AFFF-supplied fire emergency vehicles; no releases reported. Potential for low volume releases onto paved surfaces during fire vehicle resupply.	Initiate site investigation
1994 F-16C Crash Site	1	Reported release of AFFF onto unpaved ground surface during emergency response. Unknown volume – assumed medium to high volume released.	Initiate site investigation
1982 T-28 Crash Site	1	Reported release of AFFF onto unpaved ground surface during emergency response. Unknown volume – assumed medium to high volume released.	Initiate site investigation
Time-distance Spray Testing Area	2	Low volume AFFF released onto unpaved ground surface during annual equipment testing since at least 1983.	Initiate site investigation
Former Storage Area (Bldg. 273)	4	Former storage location for drums of AFFF. No reported releases.	No further remedial action planned

Aircraft mishaps have occurred elsewhere on the range as previously discussed. However, it is presently unknown if these areas were treated with AFFF or if they will be included in further investigations.

Per an article in The Military Engineer from 2016, the USAF is focusing on assessing fire training areas, crash sites, and areas that contained AFFF fire suppression systems (Janet K. Anderson 2016). Locations with a suspected PFC release will undergo groundwater, surface water, soil, and sediment sampling to confirm release. If a release is identified, the site will then be analyzed to determine any potential risk to human health and whether the contamination has migrated off the installation (Janet K. Anderson 2016). The article described general USAF policy going forward and was not particular to the NTTR.

5.7 ORDNANCE

Munitions related contamination is the largest source of contamination on the NTTR, accounting for approximately 99% of the estimated contamination by weight. The total estimated area for Ordnance contaminated sites is 26,575 acres (Bay West 2009, USAF 2003, NDEP 2016, USACE 2007). This represents less than 1% of the NTTR and 63% of the total contaminated acreage. The munitions residue includes components of target vehicles, general debris, EOD burial pits, and munitions at small- and full-scale targets that are active or archived. Munitions residue contaminated soil represents the majority of the contamination for this category.

Ninety-seven (97) of ninety-eight (98) ERP sites, including those pertaining to ordnance, which are the majority, were provided NFA determinations as of July 2007 with the remaining site having “no action at this time” correspondence with NDEP (USACE 2007). The Air Force Civil Engineer Center ERP Manager stated in the fiscal year 2015 ARCD that there are no plans for corrective actions at NTTR for fiscal year 2015/2016 (USAF 1999-2016).

Currently no known AOC or ERP sites with ordnance related contamination remain open. However, these closures may be revisited in the future if further adverse information is revealed, laws become more stringent, or the land is returned to public use.

5.8 RADIOLOGICAL

5.8.1 DEPLETED URANIUM

The use of DU armor piercing incendiary munitions is permitted by the USAF RIC and the NRC through USAF radioactive material permit NV-30048-01 for training purposes at the NTTR on Range 63. Six (6) tanks are currently being used as targets and the DU Library contains new and used targets and DU ammunition.

There is a reported accumulative total of 131,126 lbs. of DU spent on Target 63-10 as of the fiscal year 2015 ARCD released in February 2016 (USAF 1999-2016). Casings and target debris are removed during Coronet Clean operations and studies at the time of writing this report indicate that contamination is limited to within approximately 2,000 feet of the target area (Bay West 2009).

The total estimated area for DU contaminated sites is 18 acres (Bay West 2009, USAF 2003, NDEP 2016, USACE 2007, DRI 2010). This represents <0.01% of the NTTR and <0.01% of the total contaminated acreage. Estimated weight of DU contaminated soil, library materials and penetrators is 356,692 tons and represents less than 1% of contamination by weight.

5.8.2 NUCLEAR TESTING MATERIALS

Known contamination includes the various AEC legacy sites on the NTTR, which include the seven (7) radiological testing sites: CAU 411 Double Tracks, CAU 412 Clean Slate I, CAU 413 Clean Slate II, CAU 414 Clean Slate III, CAU 415 Project No. 57, CAU 101/102 Schooner/Western Pahute Mesa, and CAU 541 Small Boy (**Figure 5-5**). The radiological contamination located on the NTTR is the sole responsibility of the DOE as outlined in the MOU DE-GM08-98NV13467. DOE sites that have been closed in place under the FFACO through NDEP may still contain contamination that requires use restrictions and/or long-term monitoring. The DOE remains responsible for any contamination at these sites, but there are no current plans for further remediation at this time per the February 2016 Annual Decontamination Report. AEC/DOE Legacy sites are summarized in detail in **Appendix G**.

The seven (7) radiological sites located on or relevant to the NTTR have yet to be fully characterized or closed under the FFACO, though progress is being made in cooperation with DOE/NNSA, NDEP and the USAF. A CAU for the Double Tracks RadSafe Area at TTR (CAU 486) was closed as of December 2000 per Navarro data.

There are two (2) underground testing areas located off the NTTR that may affect USAF property due to their proximity to the NTTR boundary and are described by the ARCD as follows:

CAU 101/102 Western Pahute Mesa (Schooner) site:

- Two (2) of thirteen (13) monitoring wells on EC South have detected tritium, though at concentrations below the Safe Drinking Water Act Standards of 20,000 pCi/L (NRC 2016).
- Detection of tritium has been detected at ranges from 250 to 16,400 pCi/L.
- A new well is being drilled between one of the monitoring wells and Western Pahute Mesa to further investigate contamination migration.

A portion of the modeling area for CAU 98 is on NTTR lands. No CASs associated with this UGTA are located on the NTTR and no CASs from CAU 98 were included in the seventy-five (75) identified sites relevant to the NTTR. Progress at this location is described by the ARCD as follows:

CAU 98 Frenchman Flat site:

- A draft of the closure report was released in FY15.
- Use-restrictions, regulatory boundaries, a monitoring program, and institutional controls are anticipated to be implemented during closure.
- Computer modeling suggests a slight probability that contamination could migrate onto NTTR. As a result, two wells were drilled in FY12 to further evaluate contamination migration.
- Data continues to be collected to define the extent and nature of radioactive constituents present in groundwater and potential future migration.

Per the FFACO, one (1) other CAU relevant to the NTTR remains open. CAU 575 has four (4) CASs, two (2) of which are located on the NTTR. These CASs are industrial sites and consist of a decontamination area and a waste disposal site. They are undergoing closure investigation. This CAU is considered closed per the Navarro data of publication of the SAFER Plan.

The total estimated area for DOE Legacy sites is 14,832 acres (Bay West 2009, USAF 2003, NDEP 2016, USACE 2007, NDEP, DOE, DoD 1996). This represents <0.6% of the NTTR and 35% of the total contaminated acreage.

5.9 ENVIRONMENTAL CHARACTERIZATION EFFORTS

The items in this section are characterization efforts that span the three categories of contamination. This section summarizes the current cases of contamination identified within the environmental management programs as previously discussed in Chapter 4.

5.9.1 ENVIRONMENTAL RESTORATION PROGRAM (ERP)

Ninety-seven (97) out of the 98 ERP sites acquired NFA determinations by decision document as of 2007. The remaining site is ST-54, a fuel station spill in the Northern Range that has NDEP and USAF “no action at this time” correspondence, but not an official NFA.

5.9.2 AREAS OF CONCERN (AOC)

The 73 identified AOC sites had undergone site investigation and found to be in concurrence with NDEP requirements to not pose a threat to human health as of fiscal year 2006 (USAF, 1999-2016).

5.9.3 DECONTAMINATION ESTIMATE

The 2009 NTTR Decontamination Estimate included a total of 362 individual sites within 14 categories that would require remediation to comply with action levels defined in PL106-65 if the land were to return to public use. The level of clean defined in this public law goes beyond the historically acceptable levels of clean for the withdrawn areas due to the restricted access and the land use.

The quantities reported since fiscal year 2010 in the ARCD found an estimated total of 47,929,195 tons of residual contamination that referenced the Bay West analysis. A proposal to update the NTTR Decontamination Estimate of 2009 was submitted in fiscal year 2013. The request was validated in fiscal year 2014 for funding and execution in fiscal year 2016. This revised report is not yet available, after release of the updated estimates decontamination the estimates may be subject to revision.

5.10 EXPANSION AREAS

The land currently proposed for expansion includes open rangeland and undeveloped desert that is managed by the BLM and/or USFWS at present. No known industrial activity has occurred on these lands and the historical human activity is limited to recreation and grazing animals, with the exception of some minerals investigation for potential mining. See the minerals study associated with this withdrawal documentation for detailed information on mining activity. However, there is no known contamination as a result of the historical investigations and mining activity. The arid climate, remote location, and lack of surface waters that also characterize these areas make impacts unlikely. A listing of reports and environmental databases reviewed for these areas is included in the Reference chapter.

CHAPTER 6 - FUTURE CONDITIONS

Future conditions are evaluated based upon the proposed alternatives in this chapter. The potential contamination associated with each option is addressed in the following.

6.1 ALTERNATIVE 1 EXTEND EXISTING LAND WITHDRAWAL AND MANAGEMENT OF NTTR (NORTH AND SOUTH RANGE)

Operations and the NTTR border would not change as part of this alternative. The USAF would continue to operate the withdrawn area in accordance with current mission activity. Existing permits would remain in place, existing management programs would be maintained and updated as necessary, and spills/contamination will be cleaned up as they occur per current guidelines. The following discusses the potential future impacts.

6.1.1 OPERATIONS AND MAINTENANCE (O&M)

The NTTR would continue to utilize the existing industrial facilities, infrastructure, and targets for their intended purpose. There are no known plans to increase the industrial activities associated with the NTTR. The identified contaminated sites and potential for contamination would remain and continue into future operations.

AFFF was identified as an emerging contaminant by the EPA. A preliminary assessment has been conducted by Oneida for areas at Creech AFB where AFFF is suspected of being present. At the time of writing the chemicals of concern remain outside of CERCLA or RCRA regulations. Oneida Total Integrated Enterprises is in the process of developing a Uniform Federal Policy for Quality Assurance Project Plan Addendum for Site Inspections of Aqueous Film Forming Foam Usage at Creech AFB that was in Draft Final phase as of August 2016 (Oneida Total Integrated Enterprises 2016).

6.1.2 ORDNANCE

Ordnance would still be operated in accordance with management procedures outlined in the Coronet Clean program. Currently, there are 119 live fire ranges with existing contamination that cover an area of 22,377 acres (Bay West 2009). There are no known plans to change the testing and training associated with the activities for using live ordnance. Therefore, the area contaminated would be expected to remain unchanged. However, the concentration of munitions constituents in soil would likely increase as more munitions are used into the future. Expended ordnance and target debris are removed by EOD personnel or a UXO contractor at least every two years, but residual contamination in the soil is not remediated on a regular basis.

The issue related to the impact of migration of contamination is to be determined. Initial investigations indicated that there is a potential for migration, but that further study is needed. If migration becomes an issue, it could result in spreading contamination beyond the current withdrawn area.

6.1.3 RADIOLOGICAL MATERIALS

DEPLETED URANIUM

The NTTR would continue to use DU munitions and store targets in the DU Library per its NRC permit on Range 63. The USAF has deposited approximately 7,548 rounds annually from 2002 to 2015 on one target and will continue to expend this amount if current trends continue into the future. There are no known plans to change this operation within the 18 acres of DU test and training designated area (Bay West 2009). The contamination was found to be limited to 2000 feet surrounding individual targets (USAF 1999-2015, Bay West 2009). However, the concentration of DU impacted soil would be expected to

increase as more DU is expended at Target 63-10. Expended ordnance is removed by EOD personnel or a specialty contractor annually and targets are removed to the DU library when they are no longer viable. However, residual contamination in the soil is not remediated. Additionally, the targets, a total of six (6) tanks, have not been removed or replaced for at least the last eleven years (Holland 2016).

NUCLEAR TESTING MATERIALS

DOE would remain responsible for the contamination existing on the NTTR from historical nuclear testing. There are no known actions planned to remediate existing contaminated sites and there are no plans to restart testing with radioactive materials within the NTTR boundary. Efforts to determine the extent of contamination and its potential to migrate continues at the open radiological CAUs. Corrective actions for all underground test area and industrial sites are expected to be completed by fiscal year 2030. Soil sites are anticipated to be closed by fiscal year 2027 (National Security Technologies, LLC 2015).

Ongoing corrective actions include fencing and posting of the areas requiring corrective action, annual inspections, and recording of use restriction data for the areas in the NNSS Management and Operating Contractor Geographic Information System database, the FFACO database, and the USAF Geographic Information System database. These sites will be further investigated per agreement through stakeholders once funding becomes available through the DOE (USAF 1999-2016).

6.2 ALTERNATIVE 2: EXTEND EXISTING LAND WITHDRAWAL AND PROVIDE READY ACCESS IN THE NORTH AND SOUTH RANGE

Alternative 2, would maintain the current NTTR boundary but would include ready access to both the North and South Ranges. Ready access is an administrative alternative that consist of adequacy, flexibility, timeliness and variability to improve mission capabilities. Ready access may be implemented through a combination of methods including removal of the Proposed Wilderness designation, reallocating primary jurisdiction from USFWS to the USAF, development of a binding MOU, and enactment of legislative provisions and management under the Sikes Act. The USAF would still remain subject to applicable laws and regulations. The potential for contamination would remain approximately the same into the future due to the administrative nature of this alternative.

6.3 ALTERNATIVE 3A: RANGE 77 – EC SOUTH WITHDRAWAL

Alternative 3A includes expansion areas for a safety and security buffer for the EC South area, which is a live fire area. There would be no construction disturbance or munitions use in this additional area proposed for acquisition. The additional land would only serve as a safety buffer for live weapons deployment on the interior of Range 77. However, there is an anticipated increase in munitions contamination due to the likelihood of malfunctioning ordnance entering the additional safety buffer proposed for acquisition. Contamination would expect to include unexploded ordnance, and munitions residue resulting from malfunctioning weapons, and munitions that miss their target. Contamination resulting from O&M or radiological materials, and their potential is not anticipated at this time.

6.4 ALTERNATIVE 3B: 64 C/D AND 65D WITHDRAWAL AND ADMINISTRATIVE INCORPORATION

Alternative 3B includes expansion areas to serve as a safety and security buffer. Contamination resulting from O&M, ordnance or radiological materials, and their potential is not anticipated at this time. The land expansion is to prevent people from accessing restricted areas where safety becomes a concern. These expanded areas would see the same risk of contamination from aircraft training activity as other areas within the NTTR.

6.5 ALTERNATIVE 3C: ALAMO WITHDRAWAL

Alternative 3C proposes to withdraw 227,000 acres of DNWR to provide expanded training opportunities in the South Range. The area would correspond with potential weapons safety footprints and serve as a safety buffer for live weapons deployment. The USAF would also like to develop potential insertion points that would include one runway mockup to provide special operations personnel a location to practice tactics, with a second active runway to provide more realistic insertion training. Each runway would be 6,000 feet long and 90 feet wide. It is anticipated that ground disturbance activities associated with construction of the runways would be less than 13 acres. These additional areas would be controlled for safety purposes but are not planned to be used as target impact areas. It is anticipated that further NEPA related environmental analysis will be necessary for future development as proposed activities within this area are developed.

These expanded areas would see the same risk of contamination from aircraft training activity as other areas within the NTTR. It was assumed for purposes of this report that disturbance would be limited to possible construction sites, associated O&M materials (such as operation of off-road vehicles), and increased chance of ordnance contamination due to the nature of the safety buffer. Contamination from ordnance in this area would be expected to increase due to the nature of functioning as a safety buffer for live munitions within the South Range. There also remains the continued possibility of O&M related contamination in the form of unintended release events and aircraft mishaps. The potential for O&M contamination is present for any construction activity. The long-term potential for O&M contamination may or may not increase depending on the final plans and mission intentions.

6.6 ALTERNATIVE 4A: 20-YEAR WITHDRAWAL PERIOD

Alternative 4A proposes to establish the length of time in which the withdrawal would be active to be a period of 20 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would continue to have similar impacts on contamination as currently exists under the standard withdrawal period of 20 years. The identified impacts implemented with the other associated alternatives would apply. Mission activities would continue to impact withdrawn lands at similar levels as currently exist on the NTTR. The two major sources of contamination that are expected to increase are munitions and DU. Based on historical contamination, a 20 year period would likely result in an increase in concentration from MC and DU impacted soil. Impacted acreage would likely remain the same without any additional live targets being installed.

6.7 ALTERNATIVE 4B: 50-YEAR WITHDRAWAL PERIOD

Alternative 4B proposes to establish the length of time in which the withdrawal would be active to be a period of 50 years. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would not have an impact on contamination associated with withdrawn lands. The identified impacts implemented with the other associated alternatives would apply, but as the duration of the activity increased, the potential for contamination would increase, particularly with respect to ordnance and DU contamination. Based on historical contamination, a 50 year period would likely result in an increase in concentration of munitions contamination and DU impacted soil. Impacted acreage would likely remain the same without any additional live targets being installed.

6.8 ALTERNATIVE 4C: INDEFINITE WITHDRAWAL PERIOD

Alternative 4C proposes to establish the length of time in which the withdrawal would be active to be indefinite. This option is an administrative option and would have to be implemented in addition to one or more of the previously identified alternatives. This alternative on its own would not have an impact on contamination associated with withdrawn lands. The identified impacts implemented with the other associated alternatives would apply, but as the duration of the activity increased, the potential for contamination would increase as a result of the increased duration of those activities. Adherence to environmental policy is still required in the absence of the withdrawal process, and it would be recommended to assess the extent of contamination at periodic intervals.

The two major sources of contamination that are expected to increase are munitions and DU. Based on historical contamination, a 50 year period would likely result in an increase in concentration of munitions contamination and DU impacted soil. Impacted acreage would likely remain the same without any additional live targets being installed.

6.9 NO ACTION ALTERNATIVE

The No Action Alternative would allow the withdrawal of the NTTR lands to expire at the end of November 2021 and the withdrawn land would return to the Department of Interior (DOI). The DOI would be responsible for managing the land for public use and the USAF and DOE would no longer be able to use the land for training or testing purposes. Because this alternative would end USAF mission related activities, the potential for future contamination would reduce. The USFWS would continue to manage the lands withdrawn for the DNWR. Lands not considered contaminated by the DOI would be administered by the BLM. Lands considered to be contaminated would remain the responsibility of the USAF or the DOE until sufficiently decontaminated to allow for the transfer to DOI per the MLWA. Many sites that currently require remediation or were remediated to a level acceptable for restricted access may require further site investigation and remediation. The areas that would likely require restricted access and remediation include the munitions, DU and DOE radiation contaminated sites.

Estimated remediation costs contained in the Bay West decontamination estimate for full decontamination would be \$2,457,000,000 and would take 18 years to complete (Bay West 2009). The USAF and DOE would likely restrict access to prevent exposure to the public during this period.

6.9.1 OPERATIONS AND MAINTENANCE (O&M)

Testing and training conducted by the USAF and DOE would cease. O&M Materials would no longer be used in industrial activities. The potential for contamination from O&M materials as they are now used would reduce. However, if deconstruction of industrial sites, removal of storage tanks, and associated facilities were to occur, contamination from O&M materials could potentially increase. Opening of land to some or all public use may require additional decontamination efforts beyond those accepted for current restricted use. Sites that have received closure under restricted land use from NDEP may be reopened if public access is no longer restricted.

Estimated remediation costs for hazardous material sites contained in the Bay West decontamination estimate for full decontamination would be \$87,000,000 (Bay West 2009).

6.9.2 ORDNANCE

The USAF would discontinue all munitions related testing and training activities. The potential for contamination from all ordnance related sources would reduce. Ordnance related contamination is the largest source of contamination and includes unexploded ordnance (UXO), expended ordnance, explosive residue, target debris and residue, and munitions constituent contaminated soil. Closure of the

NTTR as a military entity would need to comply with the Defense Base Closure and Realignment Act of 1990 PL 101-510 in addition to FLMPA and MLWA. Further NEPA analysis may be required for new land management planning and remediation would be required.

Remediation and/or removal of ordnance related materials is estimated by Bay West to cost \$2,370,000 (Bay West 2009).

6.9.3 RADIOLOGICAL MATERIALS

An initial Decommissioning Funding Plan for the DU radioactive materials permit was prepared in September 2009 by the Air Force Institute of Occupational Health (now USAF School of Aerospace Medicine). The plan is a site-specific cost estimate of decommissioning that is updated every three years in the event that Target 63-10 closes. The cost to remediate the DU Licensed Area within a three-year period is estimated to be \$92 million to meet NRC and EPA requirements as of the most recent plan dated from July 2015.

The USAF continually updates a closure plan in the event the DU program is eliminated. This plan includes provisions to remove UXO and remediate the contamination. Preliminary estimates of the cost to remediate this range is \$92 million, but the cost could vary due to the complexity of the decommissioning requirements and time to complete decontamination (USAF 1999-2016).

Estimated remediation costs included in the Bay West decontamination estimate report appendix as provided to the USAF by the AEC/DOE. The total calculated cost for closure without land use restrictions is approximately \$12 billion dollars (Bay West 2009).

CHAPTER 7 - CUMULATIVE IMPACTS

The characteristics of the NTTR aid in inhibiting contamination migration. Groundwater beneath the NTTR varies from a few feet to over 1,000 feet below the surface and is on average over 200 feet deep. The NTTR has low precipitation and high evaporation. Additionally, impacts are mitigated by the site's remote location and public access restriction. Periodic testing from monitoring wells has not identified contamination above levels that may affect human health. Industrial activities do not directly drain to tributaries that would carry contamination off withdrawn lands. Contaminants in soil are generally localized and limited to shallow depths, but there are indications that munitions contamination may be migrating outside of target locations and has the potential of migrating outside of NTTR borders (EA Engineering, Science, and Technology, Inc., PBC 2015).

7.1 OPERATIONS AND MAINTENANCE (O&M)

O&M materials have been used throughout the NTTR, but primarily at key industrial facilities and any continued use represents potential for release. Impacts to water resources are insignificant due to the arid climate, remote location, significant depth to groundwater, and lack of surface waters. Releases to the soil are removed or remediated in accordance with federal, state and local regulations as well as USAF policy. Additionally, management plans and spill response plans are in place to limit the environmental impact from these industrial activities.

7.2 ORDNANCE

Munitions contaminated soil exists on the NTTR, particularly in soil adjacent to target complexes and at sites formerly used as munitions pits. The most recent comprehensive surface soil sampling efforts from the Operational Range Assessment in 2015 indicated it is likely that munitions contamination may migrate to off-range soil via storm water runoff and to groundwater in certain locations (EA Engineering, Science, and Technology, Inc., PBC 2015). The site investigation also identified potential contamination in the water sample from one well. Although not conclusive, this result raised concern and the recommendation for further analysis to determine what impact, if any, munitions contamination was having on the groundwater.

7.3 RADIOLOGICAL

DU Munitions are isolated for use within a licensed area on Range 63. The most recent analysis finds contamination levels limited to a shallow depth within 350 feet of the six (6) active targets for DU-contaminated soil with presence of rounds and target fragments to approximately 2,000 feet (Bay West 2009). Modeling reported in 2010 indicates that there is little to no transport of DU particles or oxides by surface water outside of the licensed area (DRI 2010). Therefore, DU-contamination is not likely to impact groundwater or spread beyond the currently contaminated area. As a source of radiation, if ingested, can have a negative impact on animals that may frequent these areas, but there are no studies indicating impacts on plants or animals from exposure to DU munitions within the withdrawn lands [(USAF 1997) cited in (USAF 2006)].

Radiological contamination from tests conducted prior to 1992 remain the DOE's responsibility. This includes the CAUs that are potentially migrating to or are currently within the NTTR according to modeling efforts (USAF 1999-2016). These sites are monitored by the DOE and are subject to their continued management in compliance with various regulatory agencies and policies. This type of contamination can persist in the environment for thousands of years. Although the DOE has no immediate plans for remediation, they intend on conducting further investigation and action (e.g. erecting fences around

plumes). The concentrations, and potential exposure to gamma radiation within these areas may represent a significant hazard to people and animals that may gain access to the contaminated sites. This contamination is likely to have an impact on animals that frequent the area, but the sites with dangerous levels of radiation have been fenced off to limit exposure. The areas are not devoid of plants, but their impact is currently unknown.

7.4 SUMMARY

Contamination has the potential to pose a concern to human health and the environment, including flora and fauna. However, the USAF has taken steps to handle contamination through management programs and best management practices. Management plans support viable and diverse wildlife populations by providing and maintaining sufficient quality and quantity of food, water, cover, and space to satisfy species needs, particularly for any special species status populations (US DOI 2004) . Potential impacts to proposed expansion areas would also be handled per best management practices and plans. Provided these plans are followed, there is likely limited impact to environmental resources from USAF industrial activities on the proposed NTTR withdrawal extension and expansion areas.

CHAPTER 8 - CONCLUSION

8.1 CURRENT WITHDRAWN AREA

There are numerous industrial activities and permitted activities that potentially introduce contamination into the environment as discussed throughout this report. These activities have been analyzed and sorted into three main categories: O&M material, ordnances and radiological.

O&M includes all activities other than those related to munitions and radiation. These sources of contamination are the result of industrial operations for the USAF mission and will have a continued presence into the future as long as the land is withdrawn.

Munition includes contaminated soil, unexploded ordnance, and target debris and represents the majority of contamination present for both historical and current activities on the NTTR. This trend is expected to continue as the mission continues. Concern has been raised that munition contamination has the substantial threat of migrating outside the NTTR borders and has been recommended to undergo further investigation. However, at this time contamination was not found to pose a risk to the public.

Radiation includes DOE historical radiation contaminated sites as well as depleted uranium munitions testing and training. There are historical sites with radiation contamination from AEC/DOE testing activities. The DOE is responsible for the radiological contamination that impacts the NTTR, except for DU. DU contamination is present on Range 63 from USAF training activities. A program is in place for managing the DU range. However, Range 63 will continue to have DU munitions contamination as these training activities continue in the future.

The O&M materials, ordnance, and DU would remain a high risk but have low impacts due to land restriction and administrative controls. Following environmentally conscious management plans and implementing best management practices will minimize the potential for migration. The following table summarizes the inventory of contamination present on the NTTR from the Decontamination Estimate Report of the NTTR that was issued in November 2009:

Contaminant Category	Estimated Total (Tons)	Percentage of Total Estimated Contamination
Munitions	47,226,400	99%
Munition Constituent Contaminated Soil	47,100,000	
Legacy Munitions Debris	126,400	
O&M	346,000	<1%
Hazardous Materials*	346,000	
DU	356,692	<1%
DU Contaminated Soil	353,000	
DU Library Materials	3,650	
DU Penetrators	42	
Total	47,929,195**	100%

*Hazardous materials estimation included ERP, AOC, and other sites that may also contain ordnance related materials.
 ** This is the total reported in the Bay West estimate and the ARCD. However 47,929,092 tons is the total amount when the contamination categories are summed.
 Note: The Bay West report did not include AEC/DOE legacy sites into the estimate. The estimated cost of DOE legacy site remediation with no land restrictions is approximately \$12 billion.

The following table summarizes the impact of contamination by acreage and percentage on the NTTR.

Table 8.1-2 Summary of Estimated Quantities of Contamination on the NTTR			
Contamination Category	Acreage*	Percent of NTTR** by Area	Percent of Contamination
O&M	691	<0.03%	<2%
Ordnance	26575	<1%	63%
DU	18	<0.01%	<0.01%
DOE	14832	<0.6%	35%
Total	42116	~1.5%	100
*Area of NTTR is 2,900,000 acres			
**Site areas were calculated from dimensions provided in various documents when available. Many sites had no documented area or were considered negligible in size if they were under 0.25 acres. Sources included: (Bay West 2009), (USAF 2003), (NDEP 2016), (NDEP 2016), (Navarro Inc. 2016), and (DRI 2010)			

As demonstrated in this table, the area of known contamination represents less than 1.5 percent of the total land mass of the currently withdrawn lands.

8.2 EXPANSION AREAS

The alternatives presented for analysis provide a mixture of administrative and land expansion options. Alternative 1 (extend existing land withdrawal and management of NTTR) would maintain the current NTTR boundary.

Alternative 2 (extend existing land withdrawal and provide ready access to the North and South Range) would also maintain the existing NTTR boundary but provides an additional administrative aspect by providing ready access for training activities. This may include removing the wilderness designation in the South Range. The USAF would still remain subject to applicable laws, regulations, and management procedures. The potential for contamination would remain approximately the same into the future due to the purely administrative aspect of this alternative.

Alternative 3A (Range 77) and 3B (64 C/D and 65D) are proposed as safety and security buffers. For Alternative 3A this includes a buffer for live weapons deployment on Range 77. Alternative 3C (Alamo) would provide expanded training opportunities in the South Range. The area would correspond with potential weapons safety footprints and serve as a safety buffer for live weapons deployment. Extension of the weapons footprint areas may increase potential for malfunctioning ordnance arriving in the Alamo expansion area. Further, the expansion lands may provide additional area for major combat operations training and evaluation. O&M contamination may be generated through construction activities including personnel and transport presence during any projects. The long-term potential for O&M contamination may or may not increase depending on the final plans and mission intentions. Further NEPA-related environmental analysis will be necessary for future development as proposed activities within this area are developed.

Alternative 4A (20-year withdrawal period), Alternative 4B (50-year withdrawal period) and Alternative 4C (indefinite withdrawal period) are administrative options to modify the withdrawal extension due dates. Contamination concentration related to munitions and DU would be expected to increase as the duration of use increases. Contaminated coverage areas would remain approximately the same, but concentrations would likely increase. However, management plans have thus far prevented contamination from posing any health impacts and limited contamination to specific areas.

The No Action Alternative would result in returning the land to BLM resulting in the inability for USAF and DOE to continue training or testing. Many sites that currently require remediation or were remediated to a level acceptable for restricted access may require further site investigation and remediation. The legacy DOE sites with radiological contamination may still require restriction for public safety. Because this alternative would end USAF mission related activities, the potential for future contamination would likely reduce.

REFERENCES

BIBLIOGRAPHY

- 98th Range Wing. 2002. "Depleted Uranium Management Plan: Nevada Test and Training Range, Target 63-10." July.
- 99th Air Base Wing. 2016. "Reporting Year 2015 Emergency Planning and Community Right-to-Know Act Toxic Release Inventory." May.
- Agency for Toxic Substances and Disease Registry. 2013. "Natural and Depleted Uranium - ToxFAQs." *Agency for Toxic Substances and Disease Registry*. February. Accessed October 10, 2016. <https://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=439&tid=77>.
- Air Force Institute for Environment, Safety and Occupational Health and Risk Analysis. 2001. "Radiological Scoping Survey of Range 63, Nellis Air Force Base, Nevada." September.
- Baker, USAF. 1996. "Surface Soil Sampling Report for Ten Representative Nellis Air Force Range Bombing Targets, Project No. OS005089." December.
- Bay West. 2009. "NTTR Decontamination Estimate." November.
- BLM. 2014. "Las Vegas and Pahrump Field Offices Draft Resource Management Plan/Environmental Impact Statement." Fall.
2014. *Creech Air Force Base: About Us, Fact Sheet*. November 6. Accessed June 17, 2016. <http://www.creech.af.mil/AboutUs/FactSheets/Display/tabid/7069/Article/669891/creech-air-force-base.aspx>.
- Davis, Kenneth, interview by Kaycee Zeller. 2016. 99 CES/CEIE (June 10).
- DOE. 2000. "Closure Report for Corrective Action Unit 486: Double Tracks RADSAFE Area Nellis Air Force Range, Nevada." *OSTI SciTech Connect*. December 1. Accessed 2016. <https://www.osti.gov/scitech/biblio/793206>.
- DOE, NNS, Nevada Field Office. 2013. "FFACO Handbook, Revision No. 3." February .
- DRI. 2010. "Potential Surface Water Transport of Depleted Uranium (DU) and DU Oxides on the Nevada Test and Training Range." March.
- EA Engineering, Science, and Technology, Inc., PBC. 2015. "Final Operational Range Assessment Phase I Qualitative Assessment, Phase I Qualitative Assessment Update, and Phase II Quantitative Assessment Update - Nellis Air Force Base, Nevada." May.
- EPA. n.d. *ECHO (Enforcement and Compliance History Online) Detailed Facility Report - Creech Air Force Base*. Accessed April 20, 2016. <https://echo.epa.gov/detailed-facility-report?fid=110058903931>.
- . 2015. *ECHO Detailed Facility Report NTTR Building 548*. September 24. Accessed April 4, 2016. <https://echo.epa.gov/detailed-facility-report?fid=110033028943>.
- . 2015. *ECHO Detailed Facility Report Creech Air Force Base*. September 24. Accessed April 20, 2016. <https://echo.epa.gov/detailed-facility-report?fid=110006880170>.
- . 2014. "Emergent Contaminants - Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA)." *EPA National Service Center for Environmental Publications*. March. Accessed September 26, 2016. <https://nepis.epa.gov/Exe/ZyNET.exe/P100LTG6.TXT?ZyActionD=ZyDocument&Client=EPA&Index=2011+Thru+2015&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=>.
- . 2016. "Emerging Contaminants and Federal Facility Contaminants of Concern." *US Environmental Protection Agency*. May 5. Accessed October 12, 2016. <https://www.epa.gov/fedfac/emerging-contaminants-and-federal-facility-contaminants-concern>.
- Holland, John L., interview by Kaycee Zeller. 2016. *NTTR EOD/UXO Functional Area Expert* (July 7).
- Janet K. Anderson, Billy Claxton, Cornell Long. 2016. "Investigating Emerging Contaminants." *The Military Engineer: a publication of the Society of American Military Engineers*. Accessed September 26, 2016. <http://themilitaryengineer.com/index.php/tme-articles/tme-magazine-online/item/418-investigating-emerging-contaminants>.
- Leidos. 2015. "CAU_POINT GIS Shapefile." December 28.

- Leidos, Inc. 2016. "Working Draft: Nevada Test and Training Range Land Withdrawal, Description of Proposed Action and Alternatives ." August.
- National Security Technologies, LLC. 2015. "National Nuclear Security Site Environmental Report 2014." September.
- Navarro Inc. 2016. *Personal Correspondence*. July 7.
- NDEP. 2016. *Active Cases Snapshot*. July 6. Accessed July 12, 2016. https://ndep.nv.gov/bca/file/active_cases_snapshot.htm.
- NDEP Bureau of Waste Management. 2014. "TAAA Class II Landfill - Nevada Test and Training Range." January 22. Accessed July 27, 2016. http://ndep.nv.gov/bwm/ntrr_landfills.htm.
- NDEP. 2012. "Fact Sheet Permit # NEV60030." January 13. Accessed August 18, 2016. https://ndep.nv.gov/docs_12/nev60030_f12.pdf.
- . 2016. "Federally Regulated UST." Accessed April 19, 2016. <http://ndep.nv.gov/bca/data.htm>.
- . n.d. "NDEP - Industrial Stormwater Permits." Accessed August 8, 2016. <http://ndep.nv.gov/bwpc/indsht.pdf>.
- . 2016. "NDEP Bureau of Federal Facilities Page." <http://ndep.nv.gov/boff/index.htm>.
- . 2016. "PT Active Cases Snapshot." *State of Nevada, Department of Conservation & Natural Resources, Bureau of Corrective Actions*. July. Accessed July 6, 2016. https://ndep.nv.gov/bca/file/active_cases_snapshot.htm.
- . 2016. "Snapshot of Confirmed Release Cases Closed Between 1/1/1900 and 7/6/2016." July 6. Accessed August 2, 2016. https://ndep.nv.gov/bca/file/closed_cases_snapshot.htm.
- NDEP, and Staff Professional Engineer Paul Eckert, interview by Kaycee Zeller. 2016. *Personal Correspondance: Landfill status in Southern Nevada* (December 14).
- NDEP, DOE, DoD. 1996. "Federal Facility Agreement and Consent Order." March 15.
- NDEP, NNSA, Defense Threat Reduction Agency, Office of Legacy Management. 2009. "FFACO: Appendix IV Closed Corrective Action Sites/Units, Revision Number 26." July.
- Nevada Bureau of Mines and Geology; TRC Mariah Associates. 1997. "Mineral and Energy Resource Assessment of the Nellis Air Force Range, US Air Force Combat Command." November.
- NNSA. 2005. *Streamlined Approach for Environmental Restoration Plan for Corrective Action Unit 489: WWII UXO Sites (TTR), Tonopah Test Range, Nevada*. National Nuclear Security Administration, Environmental Restoration Division.
- NRC. 2016. "Backgrounder: Tritium, Radiation Protection Limits, and Drinking Water Standards." April 8. Accessed August 9, 2016. <http://www.nrc.gov/docs/ML0620/ML062020079.pdf>.
- . 1986. "USAF Radioactive Material Permit 27-30048-1AFP/NV-30048-01/00AFP." November 28.
- Nuclear Regulatory Commission. 2008. "NRC Inspection Report 030-28641/2007003." January 9.
- Oak Ridge Institute for Science and Education. 2015. "Guidance for Radiation Accident Management: Basics of Radiation." *ORISE Radiation Emergency Assistance Center/Training Site*. Accessed December 16, 2016. <https://orise.orau.gov/reacts/guide/beta.htm>.
- Oneida Total Integrated Enterprises. 2016. "Draft Final Uniform Federal Policy for Quality Assurance Project Plan (QAPP) Addendum, Site Inspections of Aqueous Film Forming Foam Usage at Creech AFB." August.
- . 2016. "Draft Preliminary Assessment and Summary of Findings: Site Inspections of Aqueous Film Forming Foam Usage at Joint Base San Antonio Lackland, Contract No. W912BV-15-C-0082." April.
- Paul Eckert, Bureau of Waste Management NDEP, interview by Kaycee Zeller. 2017. *Landfill Incidents on the NTTR* (January).
- Simon, David B., William F. Cannon, Laurel G. Woodruff, Federico Solano, and Karl J. Ellefsen. 2014. "Mineral Resources On-line Spatial Data: Geochemical and mineral maps from soils of the conterminous United States." *US Geological Survey*. Accessed December 13, 2016. <https://mrdata.usgs.gov/catalog/cite-view.php?cite=1230>.
- United States Air Force. 1997. "Final Contamination Report for the Nellis Air Force Rane Land Withdrawal Environmental Impact Statement." February .
- US Air Force ACC NTTR/XPUS. 2016. *Personal Correspondance*. June 6.
- US DOI. 2004. "Nevada Test and Training Range Resource Management Plan and Final Environmental Impact Statement." July.
- USACE. 2007. "Final IRP Sites NFA Determinations." July.

- USAF. 2014. "About Us: Creech Air Force Base Fact Sheet." *Creech Air Force Base*. November 6. Accessed June 17, 2016. <http://www.creech.af.mil/AboutUs/FactSheets/Display/tabid/7069/Article/669891/creech-air-force-base.aspx>.
- USAF ACC. 2006. "Final Environmental Assessment for Increased Depleted Uranium Use on Target 63-10, Nevada Test and Training Range." September.
- . 2005. "Nevada Test and Training Range Depleted Uranium Target Disposal Environmental Assessment." March.
- USAF. 2012. "AFI 13-212 Range Planning and Operations." August.
- . 2014. "AFI 40-201 Radioactive Materials (RAM) Management." September 17.
- . 2016. "Air Force Instruction 32-7020: The Environmental Restoration Program." April 18.
- USAF Air War College. n.d. "Depleted Uranium Fact Sheet." *USAF Air War College: Military Medicine*. Accessed October 07, 2016. http://www.au.af.mil/au/AWC/AWCgate/dod/du_factsheet_4aug98.htm.
- USAF. 1997. "Depleted Uranium Site Assessment, Range 63 - Nellis Range Complex."
- . 2006. "Environmental Assessment for Increased Depleted Uranium Use on Target 63-10, Nevada Test and Training Range." September.
- . 1997. "Final Contamination Report for the Nellis Air Force Range Land Withdrawal Environmental Impact Statement." February.
- . 2009. "Landfill LF-01 (IS) Creech Air Force Base, Nevada Closure Report." July.
- . 2015. "Memorandum for Record: Substantial Threat of Munitions Constituents Release Determination." April 6.
- . 2010. "Nellis Air Force Base Plan 12 Hazardous Waste Mangement Plan." February 1.
- . 2016. "Nellis Air Force Base Plan 32-7042, Integrated Solid Waste Management Plan." April.
- . 2010. "Nellis Air Force Base Plan 32-7086, Hazardous Material Management Plan." February 1.
- . 2011. "Operational Range Assessment Program Version 3.0." December.
- . 2016. "Personal Correspondance: Historical Aircraft Mishaps at NTTR." December 23.
- . 2003. "Preliminary Assessment Report: Nellis Air Force Base, Nevada Test and Training Range, Areas of Concern." February.
- . 2000. "Radiological Characterization Survey of Nellis Range 63-10, Nellis AFB, Nevada." November.
- . 1999. "Renewal of the Nellis Air Force Range Land Withdrawal Legislative Environmental Impact Statement." March.
- . 1999-2016. "Report of Continuing Decontamination, Nevada Test and Training Range."
- . 2016. "RY15 Tier II Toxic Release Inventory, Storage Tank Inventory." February.
- USAF/DOE. 1998. "Memorandum of Understanding: USAF and DOE Environmental Restoration Issues." July 20.
- USFWS. 1994. "Desert National Wildlife Range, Annual Narrative Report."
- Valdez, Kim, interview by Kaycee Zeller. 2016. *NDEP Bureau of Corrective Action* (July 28).
- Weston Solutions, Inc. 2007. "Final Range Assessment Report: Munitions Constituent Migration on Operational Ranges, Nevada Test and Training Range, Nevada." September.
- . 2004. "Limited Field Study Report: Munitions Constituent Migration at Operational Ranges." December.
- Zeider, David, interview by Kaycee Zeller. 2016. *99 CES/CEIE* (June 6).
- Zeider, David, interview by Kaycee Zeller. 2016. *99 CES/CEIE* (July 14).
- Zeider, David, interview by Kaycee Zeller. 2016. *99 CES/CEIE* (December 13).

DATABASES CONSULTED

DOE- Office of Scientific and Technical Information database

<http://nsssremediation.dri.edu/>

DOE- TTR/Sandia National Laboratories Annual Site Assessment Reports

http://www.sandia.gov/news/publications/annual_report/index.html

EPA- Enforcement and Compliance History Online Detailed Facility Reports

<https://echo.epa.gov/>

EPA- Envirofacts Multisystem Search

<https://www3.epa.gov/enviro/facts/rcrainfo/search.html>

EPA- RCRA Info Search

<https://www3.epa.gov/enviro/facts/rcrainfo/search.html>

EPA- Facility Registry Service Facility Detail Reports

<https://echo.epa.gov/>

EPA- Safe Drinking Water Information Systems Reports

<https://www.epa.gov/enviro/sdwis-search>

EPA- Emergency Planning and Community Right-to-Know Act Tier II Reports

Provided by USAF

EPA- Federal Agency Hazardous Waste Compliance Docket

<https://www.epa.gov/fedfac/fedfacts>

EPA- Toxic Release Inventory Reporting

<https://www.epa.gov/toxics-release-inventory-tri-program/tri-basic-data-files-calendar-years-1987-2015>

EPA- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)

<https://cumulis.epa.gov/supercpad/CurSites/srchsites.cfm>

NDEP- Active Cases, Confirmed Release/Leaking Underground Storage Tanks (accessed July 12, 2016)

<http://ndep.nv.gov/bca/data.htm>

NDEP- Closed Cases, Confirmed Release Leaking Underground Storage Tanks (01/01/1900 – 07/06/2016)

<http://ndep.nv.gov/bca/data.htm>

NDEP- Industrial Stormwater Permit database (accessed August 8, 2016)

<https://genpermits.ndep.nv.gov/>

NDEP- Wastewater Treatment Plant and On-site Sewage Permit database

<https://wp-permits.ndep.nv.gov/>

NDEP- Federally Regulated Underground Storage Tanks (accessed April 19, 2016)

<http://ndep.nv.gov/bca/data.htm>

NDEP- FFACO, FFACO Appendices, Updates

<http://ndep.nv.gov/boff/ffaco.htm>

FINAL Contamination Analysis Report

NDEP- Solid Waste Management Facilities

<http://ndep.nv.gov/bwm/landfill.htm>

NDEP- Mining Regulation and Reclamation

<http://ndep.nv.gov/bmrr/index.htm>

DOT PHMSA- Hazardous Materials Incident Reporting System (HMIRSR09)

<http://www.phmsa.dot.gov/hazmat/library/data-stats/incidents>

USAF- AF Administrative Record from Air Force Civil Engineer Center

<http://afcec.publicadmin-record.us.af.mil/Search.aspx>

USAF- Annual Reports of Continuing Decontamination

Provided by Leidos, Inc.

USFWS- DNWR Annual Site Assessment Reports

Provided through Internet Search

USACE- Formerly Used Defense Sites (FUDS)

<http://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/FUDS-Inventory/>

APPENDICES

Appendix A	Material Authorizations for NTTR
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APPENDIX A – MATERIAL AUTHORIZATIONS FOR NTTR

List of Material Authorizations for NTTR

(USAF, 2016)

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
2640001388324		BUFFING SOLUTION, TACTICAL TRUCK, AEROSOL	16 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
2640009226917		BONDING COMPOUND, TIRE REPAIR	8 OZ CO - 8/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
2640012822849		LUBRICANT, TIRE AND RIM	25 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
2910004706768		STARTING AID, A-10, AIRCRAFT	7.2 OZ CA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
2910006469727		STARTING FLUID CYLINDER, DIESEL ENGINE	18 OZ CY - 12/DZ	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		15
2910006469727		STARTING FLUID CYLINDER, DIESEL ENGINE	18 OZ CY - 12/DZ	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
2910013428947		STARTER FLUID, ENGINE	21 OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439000181655	3439CSLAC300H	FLUX, SOLDERING, LIQUID	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
3439000512834		FLUX, BRAZING	11 OZ JR - 1/JR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
3439001059134		SOLDER, TIN ALLOY, .032"	1 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439001654186		WELDING ELECTRODE, STEEL, .125"	10 LB CN - 1/CN	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		3
3439001654186		WELDING ELECTRODE, STEEL, .125"	10 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
3439001886986		SOLDER, LEAD ALLOY, .094" DIA	5 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
3439002456624		ELECTRODE, STEEL, WELDING, .125" DIA	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
3439002472983		WELDING ROD, ALUMINUM ALLOY, .187"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439002554566		FLUX, PASTE, LEAD/TIN, SOLDERING	4 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439002622648		WELDING ELECTRODE, STEEL FILLER, SMAW, .125"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	90
3439002622652		ELECTRODE, STEEL FILLER, SMAW, .094" DIA	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	90
3439002622654		WELDING ELECTRODE, ARC, 5/32"	50 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
3439002622669		ELECTRODE, WELDING, AWS E6010, D: .094" X L: 12"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439002624228		ELECTRODE, WELDING	0 OZ OT - 1/CO	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
								operations		
3439002689654		WELDING ROD, ALUMINUM, 0.094"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
3439002733722		SOLDER, TIN, WELDING, .09"	1 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439004977560		WELDING ELECTRODE, IRON FILLER, SMAW, .093"	10 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439006101899		WELDING ELECTRODE, STEEL FILLER, SMAW, .125"	50 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
3439009008737		WELDING ROD, IRON ALLOY, .062"	5 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439010123285		WELDING ROD, ALUMINUM ALLOY, 3/32" / .093"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
3439010393494		WELDING ELECTRODE, STEEL FILLER, SHIELDED/STABILIZED ARC, .094"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439010450479		SOLDER, TIN ALLOY, WIRE	1 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
3439011227446		WELDING ROD, .062"	10 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
3439011843189		FLUX, SOLDERING, LIQUID	4 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	0
3439012050317		FLUX, SOLDERING PASTE	4 FL OZ JR - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
3439012800494		WELDING POWDER, METALLIC OVERLAY	0 OZ CA - 20/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	300
3439012800494-1		WELDING POWDER, METALLIC OVERLAY	0 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
3439013532267		SOLDER, TIN/COPPER ALLOY, .125"	1 LB SL - 1/LB	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
3439PHM00002615		WELDING WIRE, STAINLESS STEEL, 3/32"	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439PHM00003617		BRAZING ALLOY, SILVER/PHOSPHORUS/COPPER	1 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
3439PHM00007375		BRAZING ALLOY, SILVER, 1/16"	93 G PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
3439PHM00007666		BRAZING ALLOY, SILVER	1 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439PHM00010218		WELDING ROD	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
3439PHM00010485		WELDING WIRE, STAINLESS STEEL	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
3439PHM00012249		FLUX, BRAZING	6.5 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
3439PHM00017258		ANTI-SPATTER COMPOUND, WELDING	16 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439PHM00018160		WELDING MATERIAL, EXOTHERMIC	25 G CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		600
3439PHM00021455		WELDING ELECTRODE, CARBON ARC	50 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439PHM00027884		BRAZING ALLOY, COPPER/SILVER/PHOSPHORUS, .125" X .050" X 20"	1 LB TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439PHM00028815		WELDING METAL, COPPER ALLOY, ELECTRICAL CONNECTION	115 G CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
3439PHM00031070		WELDING MATERIAL, ELECTRICAL	150 G BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439PHM00033718		SOLDER, LEAD FREE	1 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
3439PHM00041594		BRAZING ALLOY, SILVER, COPPER, PHOSPHORUS	1 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
3439PHM00047970		WELDING ELECTRODE, SMAW, 5/32"	10 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439PHM00057302		WELDING ELECTRODE, IRON/NICKEL ALLOY, TIG, 0.030"	10 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439PHM00057584		WELDING ELECTRODE, FLUX-CORED, .035	10 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
3439PHM00063504		WELDING POWDER	90 G CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
3439PHM00064924		ELECTRODE, WELDING, 0.035"	11 LB SL - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439PHM00066691		ELECTRODES, WELDING, CARBON, STAINLESS AND HIGH ALLOY STEELS, 0.75 MM	.01 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
3439PHM00067472		WELDING MATERIAL, ELECTRICAL	900 G BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439PHM00069119		WELDING ELECTRODE, 1/8"	50 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
3439PHM00070431		WELDING ROD, SILICON BRONZE, 1/16" X 36"	10 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
3439PHM00088355		WELDING ELECTRODE, SMAW, 5/32"	10 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		180
3439PHM00092416		WELDING MATERIAL, EXOTHERMIC,	205 G CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		600

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		MOLD CARTRIDGE, KIT								
3439PHM00101353		WELDING WIRE, CARBON STEEL, .035 DIAMETER	10 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
3439PHM00104004		WELDING ROD, ALUMINUM, .035"	1 LB SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
3439PHM00510207		SOLDERS LEAD FREE	8 FL OZ SL - 1/SL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
4210001348955		STABILIZER, GASOLINE	16 FL OZ BT - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
4210011440291		FOAM LIQUID, EXTINGUISHING, FIRE	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	900
4210PHM00006158		CHEMICAL, FIRE EXTINGUISHER	5 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
4210PHM00010820		FOAM LIQUID, FIRE EXTINGUISHING	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
4210PHM00083432		WET CHEMICAL, FIRE EXTINGUISHER	3 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
4910010232290		LEAK TEST FLUID, ENGINE BLOCK	16 FL OZ BT - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
5330010386789		GASKET FORMING COMPOUND, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
5350PHM00028845		RUBBING COMPOUND, AUTOMOTIVE	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
5610PHM00003422		GROUT, DRY, WHITE	25 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
5610PHM00003948		CONCRETE MIX, FAST-SETTING	50 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
5610PHM00005651		PAVEMENT, REPAIR, CONCRETE/MASONRY/ASPHALT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	216
5610PHM00006504		GROUT, POLYMER, NON-SANDED, TILE	10 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
5610PHM00007413		CONCRETE, FLOWABLE, HEAVY DUTY	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
5610PHM00009739		MORTAR, THINSET, TILE	25 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
5610PHM00010028		CONCRETE REPAIR, CRACK FILLER	10 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
5610PHM00010853	5610CSLAC591M	CEMENT, TILE GROUT, ALL COLORS	25 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
5610PHM00010877	5620CSLAC986Z	MORTAR, GRAY	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	360
5610PHM00018803		PATCHING CEMENT, ACRYLIC,	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC	100.0%	15

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		WHITE, ROOF					OPERATIONS			
5610PHM00019748		SEALANT, CEMENT, CONDUIT FITTINGS	1 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
5610PHM00020517	5610CSLAC640Q	MASONRY, CEMENT	60 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	180
5610PHM00023018		LIME, HYDRATED	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00024230	803000N059952	CONCRETE, REPAIR	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00024633		ASPHALT, SEALANT, CONCRETE PAVEMENT	40 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	1200
5610PHM00026117	561000N030743	CEMENT, FAST SETTING	90 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
5610PHM00026140		PORTLAND CEMENT, CONCRETE	80 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00026823		LIME, DOLOMITIC, HYDRATED	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
5610PHM00026864		GROUT, PEARL GRAY, UNSANDED	10 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
5610PHM00027403		CONCRETE MIX	80 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
5610PHM00029863		ASPHALT, PAVING, EMULSION	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
5610PHM00039767		PORTLAND CEMENT	47 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
5610PHM00040764		CONCRETE, DRY MIX	90 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
5610PHM00043338		PRE-MIXED PATCH, MULTI-PURPOSE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
5610PHM00044134		LIME, WHITE	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00061947		ASPHALT, PAVING, EMULSION	2000 GAL DT - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
5610PHM00066620		CEMENT, FAST SETTING, REPAIR	55 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00088849		MORTAR, MASONRY	60 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00091716		PAVEMENT REPAIR, CONCRETE/MASONRY/ASPHALT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00093950		MORTAR, SELF LEVELING, PAVEMENT REPAIR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
5610PHM00102889		CALCIUM HYDROXIDE, LIME, HYDRATED	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
5640004549351		JOINT COMPOUND, READY MIXED, WALLBOARD	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
5640PHM00010469		TEXTURE PATCH, INTERIOR, WATER-BASED	20 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
5640PHM00018412		JOINT COMPOUND, WALLBOARD	3 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
5640PHM00043871		JOINT COMPOUND, MULTI-PURPOSE	12 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
5640PHM00056711		FIBER GLASS, INSULATION, 3.5"X16"X96"	.0001 OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
5640PHM00061287		SPACKLING COMPOUND, LIGHTWEIGHT, PAINTABLE	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
5640PHM00062224		TEXTURE, CEILING & WALLS, INTERIOR, AEROSOL	20 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
5970009904924		INSULATING VARNISH, ELECTRICAL, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
5970010991446		INSULATING COMPOUND, ELECTRICAL	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
5970011579469		INSULATING COMPOUND, SILICONE, GRAY / WHITE, ELECTRONICS	3 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
6135008357210		BATTERY, ALKALINE, 1.5V, D CELL	4.9 OZ EA - 12/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
6140012502113		BATTERY, LEAD-ACID, 12 V	60 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140013742243		BATTERY, SEALED LEAD-ACID, 12V, 56AMP	40 LB EA - 1/EA	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		30
6140014469506		BATTERY, SEALED LEAD-ACID, 12 V	22 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140014469554		BATTERY, SEALED LEAD ACID, STORAGE, 12 V	73 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6140015251724		BATTERY, SEALED GEL, 12 V	0 FL OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140015860618		BATTERY, LEAD ACID, 12V, 12 AH	8.55 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6140PHM00050667		PS 12120-F2	8 LB CO - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6140PHM00054923		BATTERY, RECHARGEABLE, LEAD-ACID, 12V	56 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140PHM00070739		BATTERY, LEAD ACID, 12 VOLT	45 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
6140PHM00070741		BATTERY, LEAD ACID, 12 VOLT	53 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140PHM00072455		BATTERY, SEALED LEAD-ACID, 12V	80 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140PHM00074714		BATTERY, LEAD-ACID, AUTOMOTIVE, 12V	50 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6140PHM00087235		BATTERY, LEAD ACID, 12V	46.5 LB EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		198
6140PHM00101115		BATTERY, LEAD-ACID, 6V	.0001 OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6640015602543		CLEANSING WIPES, OPTICAL LENSE	.71 LB PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
6665001054386		DETECTOR PAD, FREE WATER	100 EA CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6810002056790		ALCOHOL, DENATURED	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
6810002499354		ACID, SULFURIC, ELECTROLYTE	1 GAL BT - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	360
6810002865435		ISOPROPYL ALCOHOL, TECHNICAL	1 GAL BT - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6810005437415		ALCOHOL, SPECIALLY DENATURED, FORMULA 3A	1 GAL CO - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6810005843079		PETROLEUM ETHER, TECHNICAL	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6810008556160		ISOPROPYL ALCOHOL, TECHNICAL	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6810PHM00004139		CLEANING COMPOUND, STAIN REMOVER & DEGREASER	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6810PHM00008103		MURIATIC ACID	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6810PHM00013447		COPPER SULFATE, ANHYDROUS	3 G TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6810PHM00019312		IRON REAGENT, 10 ML X 100 SAMPLES, WATER ANALYSIS	1000 ML PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6810PHM00026692		MURIATIC ACID	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6810PHM00074715		SODIUM CHLORIDE, ACS	40 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		180
6810PHM00075176		SODIUM HYPOCHLORITE, 12.5% SOLUTION, BULK	1 GAL GL - 1/GL	N	Y	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
6820015147306		DYE, LEAK DETECTION, AIR	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC		12

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		CONDITIONING					OPERATIONS			
6830001061659		REFRIGERANT, CHLORODIFLUORO METHANE, R-22	50 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	90
6830001690794		NITROGEN, TECHNICAL	187 FT3 CY - 1/CF	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6830001690800		OXYGEN, TECHNICAL, BULK	1 FT3 EA - 1/CF	N	Y	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
6830002646751		ACETYLENE, TECHNICAL	225 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
6830002646751		ACETYLENE, TECHNICAL	225 FT3 CY - 1/CY	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		6
6830002708193		COMPRESSED GAS, ACETYLENE	10 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
6830002865434		ACETYLENE, TECHNICAL	10 FT3 CY - 1/CF	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		3
6830002865434		ACETYLENE, TECHNICAL	10 FT3 CY - 1/CF	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
6830002904370		ACETYLENE, TECHNICAL	40 FT3 CY - 1/CF	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830003972794		NITROGEN, TECHNICAL	200 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
6830005774228		OXYGEN, TECHNICAL	27 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
6830005843041		PROPANE, TECHNICAL	14.1 OZ CY - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6830009359896		REFRIGERANT, MONOCHLORODIFLUOROMETHANE, TECHNICAL	30 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6830013706207		REFRIGERANT, 1,1,1,2-TETRAFLUOROETHANE, R-134A	43 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6830013909622	6830CSLAB866V	REFRIGERANT, 1,1,1,2-TETRAFLUOROETHANE, R-134A	30 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6830014463614		CALIBRATING GAS MIXTURE	10 LB CY - 6/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6830014463614-1		CALIBRATING GAS MIXTURE	10 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6830015238775		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-410A	25 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6830PHM00000955	683000D003384	MAPP GAS, BRAZING & SOLDERING TORCHES	16 OZ CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6830PHM00003550		CALIBRATION GAS	3.1 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6

Material Authorizations in Shop Sequence

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
6830PHM00006340	6830PHM0R410A	REFRIGERANT, LIQUEFIED GAS MIXTURE, R-410A	25 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
6830PHM00006347		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-404A	24 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
6830PHM00012475		ACETYLENE, TECHNICAL	145 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
6830PHM00019301		PROPANE, TECHNICAL	4 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830PHM00020061		OXYGEN, LIQUID	231 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00020316		ACETYLENE, COMPRESSED GAS	250 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6830PHM00022695		GASES, SYNTHETIC, ANALYTICAL CHEMISTRY	253 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
6830PHM00025829	6830CSLAC005M	NITROGEN, TECHNICAL	22 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6830PHM00025870		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-408A	24 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
6830PHM00031946		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-409A	30 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6830PHM00048810		CALIBRATION GAS, MIXTURE	34 L CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6830PHM00050749		SHIELDING GAS, CARBON DIOXIDE/ARGON MIXTURE	300 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00052207		COMPRESSED GAS, ARGON/CARBON DIOXIDE	160 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
6830PHM00053811		OXYGEN	23.3 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00054942		ACETYLENE	150 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830PHM00057162		ARGON/CARBON DIOXIDE MIXTURE, COMPRESSED GAS	75 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830PHM00061843		GAS, MIXTURE, CALIBRATION	1.2 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00069395		NITROGEN, COMPRESSED GAS	50 L CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830PHM00072973		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-407C	50 KG CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00074699		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-407A	30 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6830PHM00076312		GAS, MIXTURE, CALIBRATION	150 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
6830PHM00083208		REFRIGERANT, LIQUEFIED GAS MIXTURE, R-410A	25 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6830PHM00084974		NITROGEN, COMPRESSED GAS	70 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6830PHM00088875		PROPANE, TECHNICAL	25 LB CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6830PHM00097064		PROPANE, COMPRESSED GAS	500 GAL TP - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6830PHM00102644		GAS, MIXTURE, 25% CARBON DIOXIDE, 75% ARGON	380 FT3 CY - 1/CY	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6840000017710		HERBICIDE, DIURON-BROMACIL MIXTURE	6 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	450
6840011089578		HERBICIDE, GLYPHOSATE	2.5 GAL CO - 2/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	180
6840013568891		HERBICIDE, SULFOMETURON METHYL	3 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	300
6840013684785		DEODORIZER, PEACH, AEROSOL	7 OZ CN - 12/DZ	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	216
6840014124634		INSECTICIDE, D-PHENOTHIN, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6840014292352		FUNGICIDE, EYEWASH ADDITIVE	8.45 FL OZ BT - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
6840PHM00000175		BIOCIDE, BACTERIA & FUNGI GROWTH, OILS, FUELS	16 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6840PHM00001791		HERBICIDE, IMIDAZOLE	10 LB BG - 1/BG	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		4500
6840PHM00005875		HERBICIDE	6 LB BG - 1/BG	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		1500
6840PHM00005875		HERBICIDE	6 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6840PHM00009146		HERBICIDE, GLYPHOSATE, CONCENTRATE	2.5 GAL BT - 1/BT	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		4500
6840PHM00009512		BIRD REPELLENT, GEESE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1200
6840PHM00011585		MICROBIOCIDE, BACTERIA CONTROL, WATER SYSTEMS	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6840PHM00013552		AIR FRESHENER, DEODORIZER, AEROSOL	9 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6840PHM00014234		HI-LIGHT LIQUID	1 GAL PB	N	N	AAD10282331-	CREECH -	Administrative	100.0%	300

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
			- 1/GL			-	TPECR OPERATIONS	ve, NOC		
6840PHM00014535		HERBICIDE	4 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	756
6840PHM00025836	6840PHM524517	HERBICIDE, GLYPHOSATE	30 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	1620
6840PHM00041162		DEODORIZING, CHERRY, URINAL SCREEN	36 OZ BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
6840PHM00043534		HERBICIDE, GLYPHOSATE	1 GAL CO - 1/CO	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		3
6840PHM00060166		HERBICIDE, IMIDAZOLE	40 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	300
6840PHM00082577		HERBICIDE, SULFOMETURON METHYL	3 LB CO - 1/CO	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		3000
6840PHM00088335		AIR FRESHENER, LAVENDER & CHAMOMILE, AEROSOL	8 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
6840PHM00104150		HERBICIDE, GLYPHOSATE, CONCENTRATE	30 GAL BT - 1/BT	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		600
6840PHM00104745		HERBICIDE, BROADLEAF	30 GAL CO - 1/CO	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		300
6840PHM00104745		HERBICIDE, BROADLEAF	30 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
6840PHM00511655		REPELLANT, GOOSE	2.5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		750
6840PHM00524837		HERBICIDE, BROADLEAF	2.5 GAL BT - 1/BT	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		6000
6840PHM00524837		HERBICIDE, BROADLEAF	2.5 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6000
6850000014193		WATER INDICATING PASTE	2.5 OZ JR - 24/BX	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		12
6850000014193		WATER INDICATING PASTE	2.5 OZ JR - 24/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850001053084		CLEANING COMPOUND, SOLVENT, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
6850001450255		PENETRANT, INSPECTIONS, NDI, AEROSOL, KIT	144 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850001775094		SILICONE COMPOUND, CORROSION INHIBITOR	2 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
6850005987311		LEAK PREVENTIVE	8 FL OZ	N	N	AAD10282331-	CREECH -	Administrative	100.0%	30

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		COMPOUND, RADIATOR	CN - 12/BX			-	TPECR OPERATIONS	ve, NOC		
6850006211819		LEAK DETECTOR, OXYGEN SYSTEMS	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
6850006641409		ANTI-FREEZE, ETHYLENE GLYCOL	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850008237861		FUEL, ENGINE PRIMER, AEROSOL	11 OZ CN - 12/DZ	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		36
6850008237861		FUEL, ENGINE PRIMER, AEROSOL	11 OZ CN - 12/DZ	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6850008237861		FUEL, ENGINE PRIMER, AEROSOL	11 OZ CN - 12/DZ	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		36
6850008238143		DESICCANT, ACTIVATED, SILICA GEL BEADS	60 LB DF - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
6850008350484		DEICER, DEFROSTING FLUID, AEROSOL	14 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6850008807616		SILICONE COMPOUND, CORROSION INHIBITOR	8 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
6850009262275		WINDSHIELD WASH, CONCENTRATE, 0 DEG F	16 OZ BT - 12/BX	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		3
6850009262275		WINDSHIELD WASH, CONCENTRATE, 0 DEG F	16 OZ BT - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
6850009262275		WINDSHIELD WASH, CONCENTRATE, 0 DEG F	16 OZ BT - 12/BX	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		3
6850009739091		PENETRANT, AEROSOL	10 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6850011670678		BRAKE CLEANER, NON-CHLORINATED, AEROSOL	14 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850012653115		LUBRICANT, SILICONE, AEROSOL	16 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850012909943		INSULATING COMPOUND, SILICONE, ELECTRICAL	5.3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
6850013040059		CLEANER, COIL CLEANER	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850013169382		INSPECTION PENETRANT KIT, NON POROUS MATERIAL	48 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
6850013313349		CLEANER, SOLVENT, DEGREASER, MACHINE PARTS	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	63
6850013313350		SOLVENT CLEANER, DEGREASER	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
6850013327633		CLEANER,	18 OZ CN	N	N	AAD10282331-	CREECH -	Administrati		36

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		BATTERY, AEROSOL	- 1/EA			-	TPECR OPERATIONS	ve, NOC		
6850013419856		DEICER, RUNWAY, LIQUID, BULK	1 GAL GL - 1/GL	N	Y	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	48000
6850013447147		LEAK PREVENTATIVE COMPOUND	0 OZ OT - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850013684797		DUSTER, AEROSOL	10 OZ CN - 1/CN	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		6
6850013834068		ANTI-FREEZE/COOLANT, PROPYLENE GLYCOL	1 GAL BT - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850014073811		SOLVENT CLEANER, ELECTRICAL CONTACT, AEROSOL	11 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850014117394		CLEANER, ELECTRICAL CONTACTS, AEROSOL	16 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
6850014356465		DEICING FLUID, AIRCRAFT	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
6850014356474		DEICING COMPOUND, GRANULAR	400 LB DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850014649125		ANTI-FREEZE/COOLANT, RECYCLED, CONCENTRATE	1 GAL BT - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
6850014649152		ANTIFREEZE, ETHYLENE GLYCOL, ENGINES	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
6850014814511	685000F055619	ANTI-FREEZE/COOLANT, EXTENDED LIFE	1 GAL BT - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		75
6850015120450		ANTI-FREEZE/COOLANT	1 GAL CO - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		120
6850015185017		SEALANT, RADIATOR, HEATER CORE, 48 CT	33.6 OZ BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850015617384		ANTI-FREEZE/COOLANT, DIESEL ENGINE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
6850015899235		ADDITIVE, DIESEL FUEL, EXHAUST FLUID	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
6850PHM00000227		COMPOUND, PIPE THREAD	1 PT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6850PHM00000527		TESTER, SMOKE DETECTOR, AEROSOL	2.5 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6850PHM00001350	9150IMP785193	LEAK DETECTOR, GAS	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6850PHM00001821		ANTI-FREEZE/COOLANT, PROPYLENE GLYCOL	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
6850PHM00002037	7930PHM68342	CLEANER, SOOT REMOVER, AEROSOL	14 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6850PHM00003468		WATER TREATMENT COMPOUND, EVAPORATIVE COOLER	8 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00004362	6810IMP02216	ANTI-SPATTER COMPOUND, AEROSOL	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00004835		PENETRANT, RUST PREVENTATIVE, AEROSOL	11 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
6850PHM00004971		LEAK DETECTOR, FLUORESCENT GAS	32 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00004976		DESCALER FOR NICKEL-PLATED ICE MACHINES	1 GAL PB - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00005283	6850IMPVVC7A	ENGINE COOLANT	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
6850PHM00005345		FUEL ADDITIVE, BIOCID, DIESEL	16 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00005905		BRAKE CLEANER, AEROSOL	14 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	225
6850PHM00006008		FUEL ADDITIVE, STABILIZER	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6850PHM00006867		ADDITIVE, VISCOSIFIER, WELL SYSTEMS	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6850PHM00007930		DEICER, LIQUID, RUNWAY	265 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		13200
6850PHM00008612		COOLANT, AIR COMPRESSOR	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00008680	685000N064795	ACID NEUTRALIZER, COMPRESSOR BURNOUT	4 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00009141		WATER TREATMENT, CORROSION INHIBITOR	2.5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	240
6850PHM00009555		LEAK DETECTOR, LIQUID SMOKE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00009753		DESCALER, POWDERED, COOLING SYSTEM WATER TREATMENT	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6850PHM00011922		SODIUM BENTONITE, SEAL/PLUG, BORE HOLES	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6850PHM00016923		PENETRANT, INSPECTIONS, NDI, AEROSOL	240 G CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00017875		DEICER, SALT	50 LB BX	N	N	AAD10282331-	CREECH -	Administrative		150

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		MIXTURE	- 1/BX			-	TPECR OPERATIONS	ve, NOC		
6850PHM00018632	685000N090582	BRAKE CLEANER, NON-CHLORINATED, AEROSOL	14 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	27
6850PHM00019857		RADIATOR CLEANER, AUTOMOTIVE	14.5 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00020648	685000D005518	ANTI-FREEZE, AIR BRAKE	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00020745	6850NEAC966F	POLYACRYLATE, RUST REMOVER	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	240
6850PHM00021060	6850CSLAC760I	CLEANER, DEGREASER, ELECTRONICS	20 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00023405		WATER TREATMENT, AQUEOUS SOLUTION	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00024598		CLEANER, ICE MACHINE	16 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	138
6850PHM00025026		ANTI-FREEZE/COOLANT	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
6850PHM00025278		LEAK DETECTOR, GAS	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00025616	9150PHM715729	ANTI-FREEZE/COOLANT	15 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00025650	8030PHM001080	BATTERY TERMINAL PROTECTOR, AEROSOL	7.5 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00025675		SCALE INHIBITOR, COOLING TOWER, EVAPORATIVE CONDENSER	5 LB CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00027006		LEAK DETECTOR, FLUORESCENT DYE, REFRIGERATION SYSTEMS	6 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850PHM00027195		ADHESION PROMOTER COATING, CONCRETE	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		600
6850PHM00028568		POLYURETHANE SEALANT	20 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00030577		WATER TREATMENT, LOOP WATER	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850PHM00033709		ABSORBANT, POWDER, RUBBER GLOVES	6 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
6850PHM00034004		REAGENT, HARDNESS, KIT	300 ML KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6850PHM00036683		ACID CLEANER, NON PHOPHATE,	1 QT PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC	100.0%	864

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		TOILET					OPERATIONS			
6850PHM00040891		ADDITIVE, MULTI-FUNCTION AEROSOL, DIESEL FUEL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00042837		CURING AGENT, CONCRETE	55 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
6850PHM00043563		BRAKE CLEANER, AEROSOL	14 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	225
6850PHM00047956		CLAY, DRILLING	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6850PHM00047979		EMMISSION REDUCER, DIESEL ENGINE, NITROGEN BASED	2.5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00048053		CLEANER, FOAM, EVAPORATOR COIL	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00048476		ANTI-OXIDANT, ANTI-SEIZE COMPOUND	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00049970		ENGINE COOLANT, ORANGE, W/ BITTERING AGENT	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
6850PHM00049970		ENGINE COOLANT, ORANGE, W/ BITTERING AGENT	1 GAL PB - 1/BT	N	N	IVM207530082-	VEHICLE COOLING SYSTEM	Vehicle radiator repair, NOC		60
6850PHM00050693		DESCALER	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		288
6850PHM00051282		ALKALINE CLEANER, NOZZLE, CAT MOTORS	12 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
6850PHM00052025		CLEANER, EVAPORATIVE COIL, AEROSOL	19 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00053800		FUEL ADDITIVE, EMISSIONS REDUCER, DIESEL	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
6850PHM00055973		SOLVENT, HVAC FLUSH	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00056059		WATER TREATMENT, CORROSION INHIBITOR, BOILER	7 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00058057		ICE MELT	50 LB CO - 1/CT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
6850PHM00061936		SOIL STABILIZER	275 GAL TB - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
6850PHM00063491		SOLVENT DEGREASER, CONTACT CLEANER, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00064493		SOLVENT CLEANER, RECHARGER, OIL FILTERS, KIT	18.5 FL OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00064664		WATER TEST, KIT	4 FL OZ	Y	N	AAD10282331-	CREECH -	Administrative		6

Material Authorizations in Shop Sequence

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
			KT - 1/KT			-	TPECR OPERATIONS	ve, NOC		
6850PHM00065097		ANTIFREEZE, AUTOMOTIVE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		27
6850PHM00065339		FUEL ADDITIVE, EMISSIONS REDUCER, DIESEL	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00066279		FLUSH, RADIATORS, AUTOMOTIVE	12 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00066586		ADDITIVE, ANTI-FREEZE	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
6850PHM00067903		CHLORINE TABLETS, SWIMMING POOLS	8 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00075051		DESCALER, ACIDIC, STEAMER OVEN	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
6850PHM00085413		CLEANER, FLUSHING FLUID, REFRIGERATION EQUIPMENT	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00085946		INDICATOR, DARK BLUE, SPRAY	8 OZ PZ - 1/PZ	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00085946		INDICATOR, DARK BLUE, SPRAY	8 OZ PZ - 1/PZ	N	N	IPC177531114-	NTTR BOMBING RANGE HERBICIDE	Pest control, power spraying from vehicle		18
6850PHM00088036		SOLVENT, WINDSHIELD WASHER, ANTIFREEZE	16 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
6850PHM00089189		WATER STAIN REMOVER	16 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00089191		BINDER, RHEOLOGICAL MODIFIER	50 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
6850PHM00090998		CLEANER, CARBURETOR, VOC COMPLIANT, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00091942		ACID NEUTRALIZER, BATTERY	10 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00096494		BRAKE/PARTS CLEANER, NON-CHLORINATED, AEROSOL	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		75
6850PHM00096831		BLEACH, GERMICIDAL	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
6850PHM00100189		TEST FLUID, OIL BASED, LOW VISCOSITY	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
6850PHM00100199		FLUSHING AGENT	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00100290		STANDARD SOLUTION, METAL TESTING	1 PT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
6850PHM00100291		TESTING FLUID	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00100447		FUEL ADDITIVE, STABILIZER	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
6850PHM00101356		DEICER, WINDSHIELD WASHER FLUID, 0°F	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM00103129		CLEANING COMPOUND, COOLING SYSTEM, IRON REMOVER	16 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
6850PHM00104918		PAINT STRIPPER	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00106641		PAINT STRIPPER	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
6850PHM00300290		FILTRATION, FLUID LOSS, ADDITIVE	20 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6850PHM00512109		SOOT REMOVER AND BURNER CLEANER	4 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
6850PHM00513371		AUTOMOTIVE REVIGERANT WITH UV DYE	2.6 OZ PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
6850PHM00513444		AQUA-CLEAR PFD	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
6850PHM00515824		URETHANE, TESTING, CHLORINE, KIT	40 ML KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
6850PHM0510419		SHALE INHIBITOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1500
7520PHM00006035		PERMANENT MARKER, OIL-BASED PAINT, ALL COLORS	.001 OZ PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7520PHM00058759		MARKER, BLACK, MEDIUM POINT	.06 FL OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930002797464		CLEANING COMPOUND, STAINLESS STEEL, AEROSOL	17 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
7930009907391		CLEANING COMPOUND, DETERGENT, LAUNDRY	25 LB BX - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
7930012945523		CLEANING COMPOUND, MULTI-SURFACE, AEROSOL	24 OZ CN - 12/DZ	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		432
7930013068369		CLEANING COMPOUND, DETERGENT/DEGREASER, LOW VOC	1 GAL PB - 6/BX	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		6
7930013068369		CLEANING COMPOUND, DETERGENT/DEGREASER, LOW VOC	1 GAL PB - 6/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
7930013425315		CLEANING	24 FL OZ	N	N	IMI143830027-	TPECR	Equipment		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		COMPOUND, CLEANER/DEGREASER, GENERAL PURPOSE	BT - 12/BX				GROUND POWER	monitoring		
7930013425315		CLEANING COMPOUND, CLEANER/DEGREASER, GENERAL PURPOSE	24 FL OZ BT - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
7930013425316		CLEANING COMPOUND, SOLVENT, DETERGENT / DEGREASER	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
7930013425317		CLEANING COMPOUND, DETERGENT, DEGREASER	15 GAL CN - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
7930013470967		CLEANING COMPOUND, TIRE & VINYL, AUTOMOTIVE	16 FL OZ BT - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
7930013569206		CLEANING COMPOUND, BLEACH, PORCELAIN	24 FL OZ BT - 9/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930013738845		CLEANING COMPOUND, DETERGENT/DEGREASER	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
7930013738849		CLEANING COMPOUND, DETERGENT/DEGREASER	22 FL OZ BT - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		108
7930013808450		CLEANING COMPOUND, NONBUFFING FINISH, FLOOR	1 GAL CO - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
7930013837923		CLEANING COMPOUND, GLASS & STEEL	19 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
7930013837923		CLEANING COMPOUND, GLASS & STEEL	19 OZ CN - 12/BX	N	N	ICD116830005-	CAR WASH	Cleaning/washing, detergent		18
7930013981026		CLEANING COMPOUND, DEGREASER, AEROSOL	14 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
7930014120968		CLEANING COMPOUND, SHAMPOO, CARPET/UPHOLSTERY	1 GAL PB - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
7930014120982		DEICER, AEROSOL	20 OZ CO - 24/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
7930014120984		DEICER	45 LB DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
7930014120984		DEICER	45 LB DR - 1/DR	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		150
7930014120985		CLEANING COMPOUND, SOLVENT, DETERGENT, BIODEGRADABLE,	1 GAL CN - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	600

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		GENERAL PURPOSE								
7930014121015		CLEANING COMPOUND, DISINFECTANT, DEODORIZER	1 GAL BT - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
7930014121017		CLEANING COMPOUND, DESCALER, ACIDIC	1 GAL CO - 4/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
7930014121017-1		CLEANING COMPOUND, DESCALER, ACIDIC	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		480
7930015139968		CLEANING COMPOUND, DETERGENT, CARPET, AEROSOL	19 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
7930PHM00001545		CLEANING COMPOUND, MANUAL WAREWASHING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
7930PHM00002239		CLEANING COMPOUND, SHAMPOO, CARPET	22 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
7930PHM00002989		CLEANING COMPOUND, LENS CLEANING TISSUE	1 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00003238		CLEANING COMPOUND, NO RINSE, FLOOR	2.5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00005767		CLEANING COMPOUND, STAINLESS STEEL	10 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
7930PHM00008722		CLEANING COMPOUND, POLISH, DARK GLAZE, AUTOMOTIVE	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
7930PHM00008922		CLEANING COMPOUND, POLISH, FURNITURE, AEROSOL	15.5 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	126
7930PHM00009280		CLEANING COMPOUND, FUEL SERVICE TOOLS	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00010062		CLEANING COMPOUND, RED, GRILL	2.6 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00010358		CLEANING COMPOUND, CARPETS, UPHOLSTERY, FIBER	64 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00011510		CLEANING COMPOUND, SANITIZING HARD SURFACE	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		432
7930PHM00014770		CLEANING COMPOUND, DETERGENT, STEAM CLEANING	40 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
7930PHM00017502		CLEANING COMPOUND, DEGREASER, GENERAL PURPOSE	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
7930PHM00020365		CLEANING COMPOUND, EVAPORATIVE COIL	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
7930PHM00020668	7930PHMQCB112	CLEANING COMPOUND	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
7930PHM00020959	7930PHM939736	CLEANING COMPOUND AUTOMOTIVE	30 GAL DR - 1/DR	N	N	ICD116830005-	CAR WASH	Cleaning/washing, detergent		9
7930PHM00020959	7930PHM939736	CLEANING COMPOUND AUTOMOTIVE	30 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
7930PHM00020960	7930PHM945717	CLEANING COMPOUND, WAX, AUTOMOTIVE	30 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
7930PHM00020960	7930PHM945717	CLEANING COMPOUND, WAX, AUTOMOTIVE	30 GAL DR - 1/DR	N	N	ICD116830005-	CAR WASH	Cleaning/washing, detergent		9
7930PHM00020962	7930PHM905244	CLEANING COMPOUND, PRESOAK, AUTOMOTIVE	30 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
7930PHM00020962	7930PHM905244	CLEANING COMPOUND, PRESOAK, AUTOMOTIVE	30 GAL CN - 1/CN	N	N	ICD116830005-	CAR WASH	Cleaning/washing, detergent		9
7930PHM00023856		CLEANING COMPOUND, TOILET BOWL	24 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00025934		CLEANING COMPOUND, URINAL SCREEN & DEODORIZER, CHERRY	4 OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
7930PHM00027812		CLEANING COMPOUND, LIGHT GLAZE, AUTOMOTIVE	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
7930PHM00027825		CLEANING COMPOUND, POLISH, BURNISHING	10 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00028832		CLEANING COMPOUND, WATER REPELLENT, ALCOHOL WIPE	7 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
7930PHM00036164		CLEANING COMPOUND, FINISH, FLOOR	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
7930PHM00037936		CLEANING COMPOUND, POWDER, SANITIZER,	4 LB JR - 1/JR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
7930PHM00042242		CLEANING COMPOUND, WAX, FIBERGLASS, 72 WIPES/CS	144 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
7930PHM00042431		CLEANING COMPOUND, HANDS	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00043260		CLEANING COMPOUND, LIQUID DETERGENT	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00046873		CLEANING	6.75 LB	N	N	AAD10282331-	CREECH -	Administrative		30

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		COMPOUND, DETERGENT, MACHINE WAREWASHING	CO - 1/CO			-	TPECR OPERATIONS	ve, NOC		
7930PHM00051276		CLEANING COMPOUND, RINSE ADDITIVE	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
7930PHM00052710		CLEANING COMPOUND, DISINFECTANT, WASHROOM	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00053531		CLEANING COMPOUND, CARPET & UPHOLSTERY SHAMPOO	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00055283		CLEANING COMPOUND, NEUTRALIZER, FLOOR	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		450
7930PHM00056251		CLEANING COMPOUND, BRAKE WASHER	1 L BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
7930PHM00057564		CLEANING COMPOUND, CARPETS, UPHOLSTERY	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00060743		CLEANING COMPOUND, SPILL CONTROL, KIT	11 LB KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00061123		LUBRICANT, CORROSION INHIBITOR	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00061310		CLEANING COMPOUND, CONCRETE FLOOR	12 OZ PG - 1/PG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	750
7930PHM00062626		CLEANING COMPOUND, DEFOAMER TABLET	13.2 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00062630		CLEANING COMPOUND, SCALE PREVENTOR	13.2 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00067051		CLEANING COMPOUND, BATHROOM	24 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00069693		CLEANING COMPOUND, WIPES, HANDS	3.08 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
7930PHM00070751		CLEANING COMPOUND, DETERGENT, LOW FOAM, SOFT METALS	40 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
7930PHM00072895		CLEANING COMPOUND, FINISH, FLOORS	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00074019		CLEANING COMPOUND, RINSE ADDITIVE	5 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00074685		CLEANING COMPOUND, RTU, RESTROOM	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00081026		CLEANING COMPOUND, POLISH,	17.7 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		FURNITURE, AEROSOL								
7930PHM00082517		CLEANING COMPOUND, SCALE REMOVER, TOGGLE	28 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		432
7930PHM00087699		CLEANING COMPOUND, OVENS	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
7930PHM00092697		CLEANING COMPOUND, RTU, DEGREASER	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
7930PHM00093986		CLEANING COMPOUND, SHAMPOO, CARPET	48 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
7930PHM00096082		CLEANING COMPOUND, BIO ENZYMATIC, URINAL, CHERRY	4 OZ EA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
7930PHM00097598		CLEANING COMPOUND, STAIN & RESIDUE REMOVER	3 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
7930PHM00097967		CLEANING COMPOUND, CARPET	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00100970		CLEANING COMPOUND, RTU, DEGREASER	2 L CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
7930PHM00102583		CLEANING COMPOUND, FLOOR SWEEP	25 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00106157		CLEANING COMPOUND, TOILET BOWL	32 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
7930PHM00301762		POWDER, DETERGENT, PARTS WASHER CLEANER	40 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		360
7950PHM00021051	7930PHMCGC111	CLEANING COMPOUND, GUN	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010001605787		THINNER, PAINT PRODUCTS	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8010001661700		LACQUER, BLACK, 17038, GLOSS	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8010001818080		THINNER, POLYURETHANE	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8010002466112		PAINT THINNER	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8010002867758		ENAMEL, YELLOW, 13538, GLOSS, EXTERIOR	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010002906983		ENAMEL, WHITE, 17875, GLOSS, AEROSOL	16 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	432
8010005270216		ENAMEL, GRAY, 16187, GLOSS, FLOOR-DECK	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010005273202		ALKYD ENAMEL, 12197, ORANGE, GLOSS,	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8010005843149	8010000792756	ENAMEL, OLIVE DRAB, 14064, GLOSS, AEROSOL	16 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010006169143		ENAMEL, BLACK, 37038, FLAT, EXTERIOR, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010006169181		PRIMER, LIGHT GRAY, INTERIOR-EXTERIOR, AEROSOL	16 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010006410427		COATING COMPOUND, NON SLIP, BLACK, 37038, AIRCRAFT WALKWAYS	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010006647468		SILICONE, ALUMINUM PIGMENT, HEAT RESISTANT	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010008237964		LATEX, BLACK, 37038, FLAT, EXTERIOR	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8010009588148		LACQUER, FLUORESCENT ORANGE, 38903, FLAT, AEROSOL	16 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010012659151		POLYURETHANE, GRAY, 36375, FLAT, KIT	2 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010013055555		POLYURETHANE, GREEN, 24052, SEMI-GLOSS, KIT	2 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8010013316105		ALKYD, WHITE, 17875, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	432
8010013316106		ENAMEL, WHITE, 37875, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010013316107		ENAMEL, BLACK, 17038, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		72
8010013316107		ENAMEL, BLACK, 17038, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010013316108		ENAMEL, BLACK, 37038, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	75
8010013316108		ENAMEL, BLACK, 37038, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		75
8010013316109	8010001412952	ENAMEL, RED, 11136, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	126
8010013316110		ENAMEL, RED, 11105, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010013316111		ENAMEL, OLIVE DRAB, 14064, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
8010013316113		ENAMEL, OLIVE DRAB, 34088, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010013316114		ENAMEL, YELLOW, 13655, GLOSS,	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC	100.0%	288

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MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		AEROSOL					OPERATIONS			
8010013316115		ENAMEL, YELLOW, 13538, GLOSS, GENERAL PURPOSE, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010013316117		ENAMEL, GRAY, 16307, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010013316118		ENAMEL, BLUE, 15080, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8010013316122		ALKYD, CLEAR, LOW VOC, INDUSTRIAL, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010013323745		ENAMEL, YELLOW, 33538, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	210
8010013363980		ALKYD, GREEN, 14062, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010013363981		ENAMEL, ORANGE, 12197, GLOSS, GENERAL PURPOSE, AEROSOL	11 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010013801749		ACRYLIC, RED, 31136, TRAFFIC MARKING	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010013966791		LATEX, BEIGE, 37769, FLAT, EXTERIOR	1 GAL CO - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010013973944		POLYURETHANE, BLUE, 15102, GLOSS, KIT	2 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010014148423		EPOXY, GRAY, 16473, GLOSS	2 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010014191145		EPOXY, COATING, GREY BLUE 35237, KIT	2 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010014191152		POLYURETHANE, GRAY, 36375, FLAT, KIT	2 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010014191154		EPOXY COATING, BLACK, 17038, AIRCRAFT/EQUIPMENT	2 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010014341266		ALKYD ENAMEL, WHITE, 17886, EXTERIOR/INTERIOR, SHIP/BOAT	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010014342096		POLYURETHANE, GREEN, 24052, SEMI-GLOSS, AEROSOL	12.5 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8010014811135		ENAMEL, ALUMINUM, 17178, GLOSS, AEROSOL	10 OZ CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8010015051968		ENAMEL, WHITE, 17875, GLOSS, AEROSOL	10 OZ CN - 12/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	432
8010PHM00000354		PROPELLANT AND SOLVENT, PRE-	7.6 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC	100.0%	216

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		CHARGED CAN, AEROSOL					OPERATIONS			
8010PHM00000474		THINNER, LACQUER	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00000508		ACRYLIC LATEX, RED, TRAFFIC MARKING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
8010PHM00000759		ENAMEL, EXTRA WHITE, SEMI-GLOSS, INTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00000764	8010PHMA82W51	LATEX, EXTRA WHITE, EXTERIOR, SATIN	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00000929		ACRYLIC, ORANGE, INVERTED MARKING AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00000993		LATEX, EXTRA WHITE, EXTERIOR, FLAT	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00000999		ACRYLIC, YELLOW, LEAD FREE, TRAFFIC MARKING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00001305		PRIMER/CONDITIONER, WHITE, MASONRY	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010PHM00002556		LATEX ENAMEL, EXTRA WHITE, SEMI-GLOSS, INTERIOR	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00002622		LATEX, WHITE, TRAFFIC MARKING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00002641		ACRYLIC PRIMER, GRAY	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010PHM00003311		ACRYLIC, EXTRA WHITE, SEMI-GLOSS	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00004258		ACRYLIC PRIMER, OFF WHITE	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00005280	8010TRNV3K780	ADDITIVE, FISHEYE ELIMINATOR	1 PT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8010PHM00006188		TONER, REDWOOD, OIL BASE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00006512		PRIMER, RED, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00007080		LATEX ENAMEL, CUSTOM COLOR (OFF WHITE), INTERIOR, EGGSHELL	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00007533		ACTIVATOR	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8010PHM00009083		ALKYD, SAFETY GREEN, MARKING, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00009716	8010TRNW4K157	CLEANER, WATER BASED, PAINT PREP	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8010PHM00010199		LATEX PRIMER/SEALER, WHITE, INTERIOR/EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00010413		ALKYD, APWA ORANGE, INVERTED MARKING AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		288
8010PHM00011693	8010PHMA82AW510	LATEX, WHITE, SATIN, EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	900
8010PHM00012816		ACRYLIC LATEX, BLACK, TRAFFIC MARKING	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8010PHM00012889		TEXTURE PATCH, ORANGEPEEL, AEROSOL	25 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00013010		ALKYD, FLUORESCENT ORANGE, MARKING, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010PHM00013395		ENAMEL, WALL & TRIM, SEMI-GLOSS	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010PHM00013786		CATALYST, EPOXY PRIMER	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00013787		PRIMER, COATING	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00014884		LATEX PRIMER/SEALER, INTERIOR	8 LB GL - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8010PHM00014888		LATEX, BASE Y, GLOSS	128 GAL GL - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8010PHM00014948		EPOXY, MIDTONE BASE, KIT	1 FL OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00015012		ENAMEL, WHITE, FLAT, AEROSOL	1 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8010PHM00015012		ENAMEL, WHITE, FLAT, AEROSOL	1 FL OZ CO - 1/CO	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		60
8010PHM00015051		ALKYD, HI-VISIBILITY YELLOW, INVERTED MARKING, AEROSOL	15 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010PHM00015093		GUIDE COAT, BLACK, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00015095		ENAMEL, ONAN GREEN, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		288
8010PHM00015245		STAIN, DARK WALNUT, WOOD FINISH	1 PT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00015345		LATEX, BLACK, INTERIOR, FLAT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8010PHM00015362		EPOXY, YELLOW	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC		18

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							OPERATIONS			
8010PHM00015365		ACRYLIC, WHITE, GLOSS	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010PHM00015384		ALKYD ENAMEL, ROCKET RED	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
8010PHM00015557		ACRYLIC, RED, LATEX, TRAFFIC MARKING	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8010PHM00015588		LATEX, EXTRA WHITE, SEMI-GLOSS	1 GAL GL - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
8010PHM00017048	8010PHMDA1670	ENAMEL, WHITE, GLOSS, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00018763		LATEX, EGGSHELL, INTERIOR	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8010PHM00019037		PRIMER, GRAY, RUST PREVENTIVE, AEROSOL	15 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	216
8010PHM00019073		ACRYLIC, BRILLIANT WHITE, INVERTED MARKING, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
8010PHM00019425		LATEX, DEEP TINT BASE, SATIN	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00019921		REDUCER, SLOW	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00019954		REDUCER, VERY SLOW	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00020578	8010PHM0003904	LATEX, GREEN, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	600
8010PHM00020579	801000N091284, 8010CSLAC560Q	ACRYLIC, WHITE, TRAFFIC	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8010PHM00020582	8010PHM003901	LATEX, BRILLIANT WHITE, INVERTED MARKING, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
8010PHM00020597	8010NE902	EPOXY, SLATE GRAY, CONCRETE	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00020660	8010PHM000110	ACRYLIC LATEX, WHITE, FLAT, EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	450
8010PHM00020662	8010PHM000300	ACRYLIC LATEX, INTERMEDIATE TINT BASE, FLAT, EXTERIOR	5 GAL CO - 1/CO	N	N	ICP119130220-	TPECR TARGET PAINTING	Coating/painting, airless spraying		900
8010PHM00020662	8010PHM000300	ACRYLIC LATEX, INTERMEDIATE TINT BASE, FLAT, EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	900
8010PHM00020743	801000N077957	ENAMEL, CLEAR, AEROSOL	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010PHM00020925	8010TRNG2OLIVE	ENAMEL, OLIVE DRAB, SEMI-GLOSS	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC		30

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							OPERATIONS			
8010PHM00020927	8010IMPB4WJ620	LATEX, PURE WHITE, EXTERIOR	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	75
8010PHM00020927	8010IMPB4WJ620	LATEX, PURE WHITE, EXTERIOR	5 GAL CN - 1/CN	N	N	ICP119130220-	TPECR TARGET PAINTING	Coating/painting, airless spraying		75
8010PHM00020930	8010IMP0468WZ	ENAMEL, MEDIUM GRAY, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		108
8010PHM00020999	8010PHMGL2251	LATEX, WHITE, MASONRY/STUCCO	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
8010PHM00021003	8010PHMB41TJ5	LATEX, ULTRADEEP BASE, FLAT	5 GAL CO - 1/CO	N	N	ICP119130220-	TPECR TARGET PAINTING	Coating/painting, airless spraying		300
8010PHM00021003	8010PHMB41TJ5	LATEX, ULTRADEEP BASE, FLAT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	300
8010PHM00021029	8010CSLAA770Z	ALKYD, YELLOW, TRAFFIC MARKING	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010PHM00021040	801000F048093	ALKYD, RED/ORANGE, MARKING AEROSOL	20 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	732
8010PHM00021058	8010TRNV6V241	HARDENER	32 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00021092	8010PHM21W451	LATEX, EXTRA WHITE, INTERIOR, GLOSS	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	90
8010PHM00021460		POLYURETHANE, CLEAR, SATIN	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8010PHM00022495		PRIMER, HIGH BUILD, SURFACER	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
8010PHM00022656		EPOXY, PEWTER, CONCRETE FLOORS, KIT	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00023152	801000N090365	ACRYLIC, YELLOW, LEAD FREE, TRAFFIC MARKING	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
8010PHM00023790		COATING, SAFETY ORANGE, ACRYLIC, SEMI-GLOSS	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8010PHM00024012		ACRYLIC LATEX, BLUE, SEMI-GLOSS	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8010PHM00024070	8010PHM391081	EPOXY PRIMER, GRAY	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8010PHM00024096		ALKYD, CAUTION BLUE, INVERTED MARKING, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00024497		ALKYD ENAMEL, GLOSS, INDOOR/OUTDOOR, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00024953		ENAMEL, BLACK, INTERIOR/EXTERIOR, SEMI-GLOSS,	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		AEROSOL								
8010PHM00025618		ALKYD, HIGH VISIBILITY YELLOW, INVERTED MARKING AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010PHM00026284	801000F006426	LATEX, MIDTONE BASE, SEMI-GLOSS, INTERIOR	5 GAL CO - 1/CO	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00027463		HARDENER, TOPCOAT	32 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00027514		REDUCER, PAINT, AUTOMOTIVE	128 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00027986		COATING, CAUTION BLUE, INVERTED MARKING AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
8010PHM00028767		ALKYD, FLUORESCENT GREEN, INVERTED MARKING AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00028972		REDUCER, PAINT, AUTOMOTIVE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00028995		HARDENER	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00029057		URETHANE, BLACK	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010PHM00029080		URETHANE, RED	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00029251		EPOXY, DARK GRAY, FLOORS, KIT	15 KG KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8010PHM00030747		MARKING PAINT, APWA RED, AEROSOL	15 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010PHM00031386		ACRYLIC ENAMEL, BLACK, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00031509		ENAMEL, WROUGHT IRON WHITE, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		432
8010PHM00031509		ENAMEL, WROUGHT IRON WHITE, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	432
8010PHM00033364		PAINT, ALERT ORANGE, MARKING, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010PHM00035300		PRIMER, WHITE, LATEX, INTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	45
8010PHM00037369		PAINT ADDITIVE, EXEMPT SOLVENT	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00037369		PAINT ADDITIVE, EXEMPT SOLVENT	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00037661		THINNER, MINERAL SPIRITS, ODORLESS	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8010PHM00037949		STAIN, CLEAR, SEMI-TRANSPARENT, EXTERIOR	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010PHM00038949		COATING, WHITE, CEILING TILE, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00041301		COATING, ENAMEL, CHERRY RED, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00042670		COATING, ALKYD, WHITE, SEMI-GLOSS, INT/EXT	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8010PHM00043463		ENAMEL, RED, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00044771		PRIMER, STAIN BLOCKER, AEROSOL	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8010PHM00044802		MODIFIED ALKYD, RED, INVERTED STRIPING, AEROSOL	18 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8010PHM00044806		PAINT THINNER, TURPENTINE	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8010PHM00048528		ACTIVATOR, PAINT	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8010PHM00048644		STAIN, CLEAR TINT BASE, WOOD FINISH	1 PT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00050548		HARDENER, PAINT	8 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00054798		LATEX ACRYLIC, WHITE BASE, FLAT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8010PHM00056287		ENAMEL, MACHINE GRAY, GLOSS, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8010PHM00056287		ENAMEL, MACHINE GRAY, GLOSS, AEROSOL	12 OZ CN - 1/CN	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		36
8010PHM00058265		ENAMEL, BEIGE, CUSTOM, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00058331		LATEX, ULTRADEEP BASE, FLAT, EXTERIOR	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		225
8010PHM00059267		ALKYD, SATIN, RED, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8010PHM00061071		PRIMER, WHITE, SHELLAC	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
8010PHM00061119		EPOXY, LIGHT GRAY, GARAGE FLOOR COATING	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8010PHM00061285		LATEX PRIMER/SEALER, WHITE, INTERIOR/EXTERIOR	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
8010PHM00062685		PAINT,	17 OZ CN	N	N	AAD10282331-	CREECH -	Administrative		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		FLOURESCENT ORANGE, AEROSOL	- 1/CN			-	TPECR OPERATIONS	ve, NOC		
8010PHM00063060		LATEX, SANDY COVE, SATIN, EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8010PHM00066387		ALKYD PRIMER, OFF WHITE, METAL	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8010PHM00066389		LATEX, EXTRA WHITE, GLOSS, EXTERIOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00070090		LATEX, CHROME GRAY, SATIN, EXTERIOR	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00071862		LASER MARKING MATERIAL, METALS	250 G CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00073370		ACRYLIC, WHITE, SEMI-GLOSS, METAL	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
8010PHM00073468		LATEX, VERY LIGHT SAND, EXTERIOR, FLAT	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00077329		PRIMER, GRAY, FERROUS METALS, AEROSOL	14 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00078785		LATEX, ULTRADEEP BASE, FLAT, INTERIOR	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8010PHM00080438		LATEX, EXTRA WHITE, SEMI-GLOSS, INTERIOR (AURA WHITE)	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010PHM00081528		ENAMEL, CLEAR, CORROSION INHIBITOR, AEROSOL	14.82 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00082719		ALKYD, BLACK, GLOSS, MARKING, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
8010PHM00082895		ENAMEL, ULTRA-FLAT BLACK, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8010PHM00086268		POLYURTHANE, BASECOAT	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00086268		POLYURTHANE, BASECOAT	1 QT CO - 1/CO	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00086273		PAINT, DRY ADDITIVE	1 QT CO - 1/CO	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00086276		PAINT, HARDENER, FAST	1 QT CO - 1/CO	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00086777		EPOXY, PRIMER, HARDNER, HIGH SOLIDS	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00086777		EPOXY, PRIMER, HARDNER, HIGH SOLIDS	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00086783		POLYURETHANE, HARDENER	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00086786		URETHANE,	1 GAL CN	N	N	IVM207330284	VM PAINT	Vehicle		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		ACRYLIC, PRIMER	- 1/CN			-	SHOP	body repair, NOC		
8010PHM00086800		EPOXY, PRIMER, HARDNER, HIGH SOLIDS	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00086800		EPOXY, PRIMER, HARDNER, HIGH SOLIDS	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087338		ENAMEL, GREEN, ALL SURFACE, AEROSOL	20 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00087514		ADDITIVE, MEDIUM DRY	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		18
8010PHM00087520		ACCELERATOR, PAINT	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00087520		ACCELERATOR, PAINT	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087528		PAINT ADDITIVE, EXEMPT SOLVENT	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087534		ADDITIVE, SLOW DRY, AUTOMOTIVE FINISHES	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087539		PAINT ADDITIVE, EXEMPT SOLVENT	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087562		HARDENER, CLEAR, HIGH SOLIDS	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00087562		HARDENER, CLEAR, HIGH SOLIDS	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087570		ACRYLIC, CLEAR, HIGH SOLIDS	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087570		ACRYLIC, CLEAR, HIGH SOLIDS	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00087573		ADDITIVE, BASE COAT, SLOW DRY, FINISHES	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00087579		POLYURETHANE ENAMEL, HIGH SOLIDS, FAST DRY	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00087579		POLYURETHANE ENAMEL, HIGH SOLIDS, FAST DRY	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00089598		POLYURETHANE, BASECOAT	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8010PHM00091541		WATER BASED POLYURETHANE, GRAY, FLAT, NON-SLIP	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00091894		LATEX, EXTRA WHITE, SEMI-GLOSS, INTERIOR	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8010PHM00094211		ENAMEL, CLEAR, INVERTED MARKING PAINT, AEROSOL	15 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
8010PHM00098247		PAINT, CREAM,	5 GAL CO	N	N	AAD10282331-	CREECH -	Administrative		12

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		MASONRY & BRICK	- 1/CO			-	TPECR OPERATIONS	ve, NOC		
8010PHM00099263		PRIMER, WHITE, CONCRETE, WOOD & FIBERGLASS, KIT	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8010PHM00106905		PRIMER, WHITE, CONCRETE, WOOD & FIBERGLASS, KIT	1 QT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00302669		PRIMER, WHITE, PPG	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8010PHM00510281		THINNER, OIL BASED PAINT, STAIN, VARNISH	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00514340		PAINT, INTERIOR, LATEX, GLOSS, ENAMEL, EXTRA WHITE	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
8010PHM00515876		TILE-CLAD HS HIGH SOLIDS EPOXY (PART A), ULTRA DEEP BASE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8010PHM00526070		COATING, URETHANE, CLEAR	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8030000592761		ANTISEIZE COMPOUND	4 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
8030001050270		SEALANT, ANTISEIZE COMPOUND, GRAY-BLACK	1 LB CN - 1/LB	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030001112762		SEALANT, THREAD LOCKING, GREEN	50 CC BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8030001429272		CORROSION RESISTANT COATING, CHEMICALLY TREATED ALUMINUM	1 PT CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030001450111		SEALANT, CORROSION PREVENTIVE COMPOUND, STEEL	1 PT CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030001817884		SEALANT, RUBBER, ELECTRICAL, KIT	3.5 FL OZ CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030002206973		SEALANT, GASKET MAKER, BROWN	4 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030002513980		ANTISEIZE COMPOUND	1 LB CN - 1/LB	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
8030004024957		SEALANT, LUBRICANT, PIPE THREADS & FITTINGS	4 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030005385213		SEALANT, OXIDE INHIBITOR	8 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030005468621		SEALANT, AUTOMOTIVE UNDERSEALANT, BLACK, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8030005552878		SEALANT, WATERPROOFING, CLEAR	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030005985915		SEALANT, CORROSION PREVENTIVE	1 PT CN - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030006020045		SEALANT, SYNTHETIC RUBBER, INTEGRAL FUEL TANKS, KIT	3.5 FL OZ CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	45
8030007235345		SEALANT, BLACK, AIRCRAFT FIREWALL, KIT	1 PT KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030009262135		SEALANT, DENT FILLER, METAL SURFACE, KIT	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030009369940		SEALANT, PLASTIC ACRYLIC, GRAPHIC FILMS	8 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030009381947		SEALANT, CORROSION PREVENTIVE, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8030009996313		SEALANT, PIPE JOINT, BLUE	1.333 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030009996313		SEALANT, PIPE JOINT, BLUE	1.333 FL OZ TU - 1/TU	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		3
8030010083058		SEALANT, CORROSION PREVENTIVE, AEROSOL	12.25 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8030010751156		SEALANT, LATEX CAULK, WHITE	10 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8030011717628		SEALANT, THREADLOCKER, RED	50 ML BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8030011986053		SEALANT, PUTTY, RED	21 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030012180321		SEALANT, THREADED JOINTS, ANAEROBIC	50 CC TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030012685917		SEALANT, ACRYLIC, GREEN, METAL PARTS	50 CC BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030012905134		SEALANT, INTEGRAL FUEL TANKS, GRAY, KIT	2.25 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	300
8030012905135		SEALANT, RUBBER, GRAY, INTEGRAL FUEL TANKS, KIT	4 FL OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8030012905137		SEALANT, SYNTHETIC RUBBER, INTEGRAL FUEL TANK, KIT	3.5 OZ CA - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8030012905139		SEALANT, RUBBER, INTEGRAL FUEL TANK, GRAY, KIT	3.5 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	240
8030012991762		SEALANT, SILICONE, BLUE, AUTOMOTIVE	3.35 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8030013116473		SEALANT,	8 OZ PB -	N	N	AAD10282331-	CREECH -	Administrative		12

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		ANTISEIZE COMPOUND	1/BT			-	TPECR OPERATIONS	ve, NOC		
8030013204710		SEALANT, PLASTIC URETHANE, BLACK	10 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	60
8030013812903		SEALANT, SELF-LEVELING, ASPHALT & CONCRETE JOINTS	29 FL OZ CA - 6/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
8030013812903-1		SEALANT, SELF-LEVELING, ASPHALT & CONCRETE JOINTS	29 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		1800
8030014472906		SEALANT, TAN, CAULKING	12.8 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00000318		SEALANT, PROTECTIVE, AUTOMOTIVE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8030PHM00000423		SEALANT, CLEAR LACQUER, ELECTRICAL	11 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030PHM00000519	8030CSLAC546F	SEALANT, LATEX FOAM, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030PHM00000528		SEALANT, SELF-LEVELING, ASPHALT & CONCRETE JOINTS	29 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8030PHM00000688		SEALANT, HIGH PERFORMANCE, THREAD	50 ML TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00001276		SEALANT, CAULK, WHITE, INTERIOR / EXTERIOR	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8030PHM00001752		SEALANT, DUCT WORK	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030PHM00003266	8030TRN81878	SEALANT, SILICONE, GASKET COMPOUND	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00003306	8040TRN27140	SEALANT, THREAD LOCKING, HIGH STRENGTH, RED	36 ML BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
8030PHM00003909		SEALANT, GASKET COMPOUND, BLACK	3.35 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8030PHM00004353		SEALANT, ELASTOMERIC COATING, WHITE, ROOFING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
8030PHM00004354		SEALANT, WALNUT, WOOD PUTTY	3.75 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8030PHM00005315		SEALANT, PUTTY, PLUMBING FIXTURE	14 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030PHM00006241		SEALANT, GOLDEN OAK, WOOD PUTTY	3.75 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8030PHM00006362		SEALANT, WATERPROOFER, CLEAR, MULTI-SURFACE	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60
8030PHM00006363		SEALANT, WATER	5 GAL CN	Y	N	AAD10282331-	CREECH -	Administrative		18

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		PROOFER, CLEAR, WOOD	- 1/CN			-	TPECR OPERATIONS	ve, NOC		
8030PHM00006421		SEALANT, FOAM, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	600
8030PHM00006654		SEALANT, LATEX CAULK, WHITE	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	600
8030PHM00006803		SEALANT, LATEX CAULK, CLEAR	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
8030PHM00006874		SEALANT, INSULATING FOAM, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00007324	8030CSLAC235I	SEALANT, THREADLOCKER, MEDIUM STRENGTH	6 ML TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
8030PHM00008206		SEALANT, SILICONE, CLEAR	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030PHM00008732		VG 181 GRAY, 305057	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030PHM00008904		SEALANT, THREADLOCKER, BLUE	6 ML BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00009178		SEALANT, SILICONE, HIGH TEMP, RED	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8030PHM00009402		SEALANT, FIBERGLASS RESIN, AUTOMOTIVE	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030PHM00009686		SEALANT, SELF-LEVELING, ASPHALT & CONCRETE JOINTS	50 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00010160		SEALANT, THREADLOCKING, BLUE	.5 ML TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8030PHM00010170		SEALANT, MARINE STRUCTURES, WHITE	3 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00010171		SEALANT, FOAM, INSULATING, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00010434		SEALANT, ASPHALT, ROOFING CEMENT	5 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00010949		SEALANT, CAULK, WHITE, PAINTABLE	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030PHM00011015		SEALANT, THREADLOCKER, RED	6 ML TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00011297	8030PHM89SERIES	SEALANT, SILICONE, HVAC	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8030PHM00012046		SEALANT, EXPANDING FOAM, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		138
8030PHM00013643		SEALANT, THREADLOCKER, RED, AUTOMOTIVE	4 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8030PHM00015639		SEALANT, PIPE	1 QT CN -	N	N	AAD10282331-	CREECH -	Administrative	100.0%	6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		THREAD, SOFT SET	1/CN			-	TPECR OPERATIONS	ve, NOC		
8030PHM00015639		SEALANT, PIPE THREAD, SOFT SET	1 QT CN - 1/CN	N	N	IFU149930037-	TPECR FUELS	Fuels distribution		6
8030PHM00017902		SEALANT, WATER-BASED, MULTISURFACE PENETRATOR	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00018949		SEALANT, BODY, AUTOMOTIVE	10 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00019025		SEALANT, SILICONE, BLACK	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		108
8030PHM00019081		SEALANT, NATURAL PINE, WOOD PUTTY	3.75 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8030PHM00019303		SEALANT, FIBERGLASS, REPAIR	8 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030PHM00019654		SEALANT, FILLER, WINDSHIELD	1 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00020493		SEALANT, CLEAR, LATEX CAULK	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	120
8030PHM00020510		SEALANT, METAL ROOFING	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
8030PHM00020657	8010NEAD024G	SEALANT, RUBBER, WHITE	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		90
8030PHM00024411		SEALANT, MOLDS, LEAKAGE RETARDANT	2 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8030PHM00024607		SEALANT, LATEX CAULK, WHITE, TUB & TILE	5.5 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00024879		SEALANT, ROOF, CEMENT	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030PHM00025028		SEALANT, GASKET	4 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00029764		SEALANT, GRAY, PIPE THREADS & GASKETS	1 PT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030PHM00031701		SEALANT, FOAM, FIRE BARRIER, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8030PHM00034528		SEALANT, RADIATOR, HEATER CORE	20 G TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00034701		SEALANT, GROUT, TILE	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030PHM00034917		SEALANT, SILICONE CAULK, CLEAR	9 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8030PHM00035998		SEALANT, SILICONE, GASKET MAKER	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00036260		PRIMER, SEALANT, THREADLOCKING, AEROSOL	4.5 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8030PHM00039375		SEALANT, CAULK, FIRE BARRIER	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8030PHM00039679		SEALANT, SILICONE, CLEAR, DOOR/WINDOW	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8030PHM00041614		SEALANT, WATERPROOFER, WOOD	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00041847		SEALANT, CORROSION PREVENTIVE COMPOUND, STEEL	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030PHM00042021		SEALANT, INSULATING FOAM, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00042848		SEALANT, SILICONE, INDUSTRIAL GRADE	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8030PHM00046238		SEALANT, FIBERGLASS, HARDENER, AUTOMOTIVE	8 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00046397		SEALANT, GROUT	1 QT PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030PHM00046986		SEALANT, ANTI-CORROSION, WELDING SURFACES, AEROSOL	13 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030PHM00047540		SEALANT, POLYESTER FINISHING PUTTY, AUTOMOTIVE	30 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8030PHM00049382		SEALANT, FOAM, WINDOW AND DOOR, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00050504		SEALANT, SILICONE, CONSTRUCTION	10.2 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8030PHM00050656		SEALANT, YELLOW, POLYURETHANE BASED, INSULATING FOAM, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00063712		SEALANT, ANTISPLATTER, WELDING	16 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8030PHM00064237		SEALANT, PRIMER, CONCRETE FLOORS	5 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8030PHM00064250		SEALANT, EPOXY, WHITE, SELF LEVELING, FLOORS	5 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
8030PHM00064356		SEALANT, HEAT SINK	11 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
8030PHM00067562		SEALANT, EPOXY, DRAIN PAN, COOLING SYSTEM	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8030PHM00070800		SEALANT, THREADLOCKER, HIGH STRENGTH	10 ML BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
8030PHM00080794		SEALANT, CURE,	5 GAL CN	N	N	AAD10282331-	CREECH -	Administrati		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		SODIUM SILICATE, CONCRETE	- 1/CN			-	TPECR OPERATIONS	ve, NOC		
8030PHM00086253		SEALANT, ALUMINUM, SILICONE, METAL	10.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8030PHM00089818		SEALANT, POLYESTER, BODY FILLER, LIGHTWEIGHT	1 GAL CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		36
8030PHM00092536		SEALANT, SHEET METAL SEAMS, AUTOMOTIVE	1 QT CN - 1/CN	N	N	IVM207330284-	VM PAINT SHOP	Vehicle body repair, NOC		12
8030PHM00095344		SEALANT, BEAD, TIRE MOUNTING	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8030PHM00103299		SEALANT, WATERPROOFER, WOOD	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8030PHM00511583		SEALANT	1.2 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040000922816		ADHESIVE, PLASTIC EPOXY, MULTI-PURPOSE, KIT	4 G KT - 100/BX	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8040001178510		ADHESIVE, SILICONE, CLEAR, ELECTRONICS	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	45
8040001429193		ADHESIVE, CYANOACRYLATE	1 FL OZ EA - 10/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8040001450450		ADHESIVE, SILICONE, RED, HIGH TEMP	2.8 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	240
8040004448752		ADHESIVE, RESIN, METAL AIR FILTERS	10 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8040004555359		ADHESIVE, RUBBER, AUTOMOTIVE WEATHER-STRIPPING	5 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040008326173		ADHESIVE, SYNTHETIC RUBBER, STEEL	5 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040009386860		ADHESIVE, SYNTHETIC RUBBER, AEROSOL	24 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040009957080		ADHESIVE, AUTOMOTIVE TRIM, AEROSOL	16.8 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
8040011476849		ADHESIVE, NEOPRENE RUBBER, BLACK	5 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040011943457		ADHESIVE, CLEAR, LAMINATES, WOOD, AEROSOL	24 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040013909728		ADHESIVE, HOT MELT	11 LB BX - 1/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8040PHM00000860		PRIMER, ADHESIVE, PVC & CPVC PIPE	8 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00001014		ADHESIVE, CONSTRUCTION, MULTIPURPOSE	10.1 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8040PHM00002336		ADHESIVE, EPOXY, AUTOMOTIVE BODY PANEL	.2 L CA - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8040PHM00003249		ADHESIVE, CONTACT CEMENT	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8040PHM00003408		ADHESIVE, ACOUSTICAL CEILING TILE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8040PHM00006622		ADHESIVE, WATER-BASED, COVE BASE	4 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8040PHM00007204		ADHESIVE, WINDSHIELD REPAIR	.17 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00007320	8010TRN08090	ADHESIVE, AUTOMOTIVE, AEROSOL	18 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8040PHM00007344		ADHESIVE, CPVC CEMENT, ORANGE	32 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00007702	8010PHM000212	PRIMER, ADHESIVE, PVC PIPE	8 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8040PHM00007703	8040PHM000905	ADHESIVE, SOLVENT CEMENT, LOW VOC, PVC, CLEAR	8 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8040PHM00008367		ADHESIVE, CARPET AND SHEET VINYL FLOORING	4 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	42
8040PHM00009694		ADHESIVE, WOOD GLUE	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8040PHM00010105		ADHESIVE, PVC CEMENT	1 PT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8040PHM00010230	8030IMPLN-601	ADHESIVE, PROJECTS, CONSTRUCTION	10 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	288
8040PHM00010709		ADHESIVE, RUBBER CEMENT	8 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040PHM00011990		ADHESIVE, PLASTIC PIPE CEMENT, ELECTRICAL CONDUIT	32 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8040PHM00012040		PRIMER, PURPLE, PVC ADHESIVE	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8040PHM00013784		PRIMER, ADHESIVE, PVC PIPE	16 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8040PHM00015972		ADHESIVE, FLOOR TILE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
8040PHM00016075		ADHESIVE, WOOD GLUE	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
8040PHM00016145		ADHESIVE, LATEX, FOAM BOARDS & PROJECTS	10.5 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8040PHM00016195		ADHESIVE, CEMENT, ABS PIPE	4 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8040PHM00017217	801000N079255	ADHESIVE, CERAMIC TILE	3.5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
8040PHM00017268		ADHESIVE, EPOXY, GENERAL PURPOSE, KIT	50 ML CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8040PHM00019798		ADHESIVE, REAR VIEW MIRROR, KIT	.03 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8040PHM00020735	8010PHMSSET22	ADHESIVE, ANCHOR BOLT EPOXY, CONCRETE, KIT	22 OZ CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8040PHM00020831	8040PHMEB540	HARDENER, EPOXY ADHESIVE	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	240
8040PHM00020991	804000N062310	ADHESIVE, URETHANE, AUTO GLASS	10.5 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
8040PHM00022542		ADHESIVE, TILE	4 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8040PHM00023356		ADHESIVE, PVC CEMENT, ALL WEATHER	16 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8040PHM00024241	8030CSLAC550C	ADHESIVE, EPOXY, CONCRETE ANCHORING, KIT	1 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
8040PHM00025252		ADHESIVE, CONSTRUCTION, MULTIPURPOSE	10 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00025413		ADHESIVE, CONSTRUCTION, MULTIPURPOSE	28 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00025693	8040PHMIPS773	ADHESIVE, ABS CEMENT	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8040PHM00025711	804000N083328	ADHESIVE, PVC CEMENT, HEAVY DUTY	32 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8040PHM00025742		ADHESIVE, CPVC CEMENT	32 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
8040PHM00028429		ADHESIVE, EPOXY, KIT	2 OZ KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040PHM00031193		ADHESIVE, LATEX, FOAM BOARDS & PROJECTS	10.5 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8040PHM00037329		ADHESIVE, COVE BASE	11 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	144
8040PHM00041109		ADHESIVE, VINYL TILE	4 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040PHM00041234		ADHESIVE, CARPET & SHEET VINYL	4 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
8040PHM00041488		ADHESIVE, SOLVENT, CEMENT, LOW VOC, ABS	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
8040PHM00047280		ADHESIVE, HIGH TACK, AEROSOL	18.1 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8040PHM00054003		ADHESIVE,	6 ML TU -	N	N	AAD10282331-	CREECH -	Administrati		12

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		THREADLOCKER, HEAVY DUTY RED	1/TU			-	TPECR OPERATIONS	ve, NOC		
8040PHM00056108		ADHESIVE, WALL BASE	11 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8040PHM00060226		ADHESIVE, MEMBRANE, SINGLE-PLY, BUILDING	5 GAL OT - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8040PHM00061004		ADHESIVE, MULTI-USE, AEROSOL	17 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
8040PHM00061856		ADHESIVE, HEAVY DUTY, CONSTRUCTION	10 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00066118		ADHESIVE, CLEAR, SELF LEVELING	10.2 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8040PHM00066333		ADHESIVE, INSULATION	1 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8040PHM00066595		ADHESIVE, VULCANIZING CEMENT, TIRE REPAIR	1 PT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8040PHM00067627		ADHESIVE, EPOXY, GENERAL PURPOSE, KIT	25 ML CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
8040PHM00068373		ADHESIVE, AUTOMOTIVE, AEROSOL	16.75 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8040PHM00070894		ADHESIVE, EPOXY, CONCRETE ANCHORING	8.6 FL OZ CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8040PHM00083021		ADHESIVE, EPOXY, REGULAR, KIT	3.5 G KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		375
8040PHM00105721		ADHESIVE, EPOXY PRIMER, CONCRETE, KIT	4 GAL KT - 1/KT	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
8040PHM00300206		ADHESIVE, EPOXY BONDER, TAN, PLASTIC, KIT	.85 OZ TU - 1/TU	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00510218		ADHESIVE, VINYL, TILE	4 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM00510792		VERSACHEM 60 SEC EPOXY	50 ML CA - 1/CA	Y	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8040PHM90010294		ADHESIVE, EPOXY PUTTY, UNDERWATER	2 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
8520014070164		HAND CLEANER, PUMICE, ORANGE	1 GAL PB - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
8520014222216		HAND CLEANER, WIPES, 72 EACH	.001 OZ CO - 6/BX	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
8520PHM00011431		SANITIZER, WIPES	.001 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
8520PHM00018367	852000N050521	HAND CLEANER, WATERLESS, PUMICE	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
8520PHM00028851		SANITIZER, HAND,	8 LB BX -	N	N	AAD10282331-	CREECH -	Administrative		72

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		WIPE	1/BX			-	TPECR OPERATIONS	ve, NOC		
8520PHM00037118		HAND SANITIZER	1 L BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		126
8520PHM00038140		HAND SOAP, LIQUID	12 FL OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
8720PHM00048935		FERTILIZER, TURF BUILDER, LAWN	12.5 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		150
8720PHM00059903		FERTILIZER, HERBICIDE, DIURON, IMAZAPYR	10 LB BG - 1/BG	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	600
9150000589644		LUBRICANT, WIRE PULLING	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
9150000827524		LUBRICANT, HYDRAULIC FLUID, PETROLEUM BASE, RED	10 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
9150001178791		LUBRICANT, MOTOR OIL, 2 CYCLE	1 PT CO - 1/PT	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		18
9150001178791		LUBRICANT, MOTOR OIL, 2 CYCLE	1 PT CO - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
9150001806290		LUBRICANT, HYDRAULIC FLUID, FIRE RESISTANT	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150002234129		LUBRICANT, OIL, INSTRUMENT	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
9150002526371		LUBRICANT, CUTTING FLUID	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150003499290		SOLID FILM LUBRICANT, PTFE, AEROSOL	11 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150004228099		LUBRICANT, WIRE PULLING	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150004506938		LUBRICANT, CUTTING OIL, AEROSOL	14.5 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
9150007534667		LUBRICANT, OIL, AIR COMPRESSOR	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150008237896		LUBRICANT, GREASE, AIRCRAFT	40 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150010054860		LUBRICANT, GREASE, MOLYBDENUM DISULFIDE	120 LB DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150010054860		LUBRICANT, GREASE, MOLYBDENUM DISULFIDE	120 LB DR - 1/DR	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		12
9150010319645		LUBRICANT, OIL, REFRIGERATION FLUID	1 GAL CO - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150010479667		LUBRICANT, OIL, AIRLESS SPRAY GUNS	8 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
9150010536688		LUBRICANT, CLEANER & PRESERVATIVE, FIREARMS	1 GAL PB - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150010546453		LUBRICANT, CLEANER & PRESERVATIVE, FIREARMS	1 PT BT - 1/PT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150011029455		LUBRICANT, BRAKE FLUID, AUTOMOTIVE	1 GAL CN - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	75
9150011701567		LUBRICANT, PENETRANT, COLLOIDAL GRAPHITE	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150012008008		LUBRICANT, POWER STEERING FLUID	1 QT CN - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		300
9150012342193		LUBRICANT, GREASE, SILICONE INSULATED ELECTRICAL	10 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150012476313		LUBRICANT, PENETRATING OIL, AEROSOL	10 OZ CN - 1/CN	N	N	IMI143830027-	TPECR GROUND POWER	Equipment monitoring		12
9150012476313		LUBRICANT, PENETRATING OIL, AEROSOL	10 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150012882737		LUBRICANT, METAL WORKING FLUID	1 GAL CO - 1/GL	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150014211427		LUBRICANT, MOTOR OIL, 15W-40	1 QT BT - 1/QT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	432
9150014386082		LUBRICANT, MOTOR OIL, 15W-40	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	150
9150014607518		LUBRICANT, MOTOR OIL, SAE 30	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150014964919		LUBRICANT, GREASE, BALL & ROLLER BEARING	14.1 OZ CA - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150014996634		LUBRICANT, GREASE, AIRCRAFT & INSTRUMENT	35 LB CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	9
9150015529157		LUBRICANT, HYDRAULIC FLUID, AUTOMATIC TRANSMISSION	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00000254	915000N028120	LUBRICANT, OIL, PNEUMATIC TOOL	16 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00000412		LUBRICANT, MOTOR OIL, 2 CYCLE	15 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
9150PHM00001218		LUBRICANT, COMPRESSOR OIL	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	15
9150PHM00001792		LUBRICANT, METALWORKING FLUID	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		24
9150PHM00001798		LUBRICANT, OIL, AIR COMPRESSOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
9150PHM00002006	915000N012088	LUBRICANT, OIL, VACUUM PUMP	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00002990		LUBRICANT, OIL, COMPRESSOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00005313		LUBRICANT, MOTOR OIL, SAE 30	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	180
9150PHM00005906		LUBRICANT, TURBINE OIL	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00005973		LUBRICANT, MOLY GREASE, BRAKE CALIPER	8 OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
9150PHM00007301		LUBRICANT, WIRE PULLING	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00007511		LUBRICANT, OIL, VACUUM PUMP	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00008136		LUBRICANT, GREASE, PLUMBING	2 OZ JR - 1/JR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	30
9150PHM00008339		LUBRICANT, GREASE, HI TEMP	12.5 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00008872		LUBRICANT, GREASE, SYNTHETIC, MULTIPURPOSE	3 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00008960		LUBRICANT, MOTOR OIL, 15W-40	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00009541		LUBRICANT, MOTOR OIL, 2 CYCLE	34 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
9150PHM00009810		LUBRICANT, GREASE, AEROSOL	12 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150PHM00010180		LUBRICANT, GREASE, DIELECTRIC	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
9150PHM00011337		LUBRICANT, BRAKE FLUID, DOT 5	32 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150PHM00011558	9150NEXHP222	LUBRICANT, GREASE, LITHIUM COMPLEX	14.1 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00012108		LUBRICANT, MULTIPURPOSE, AEROSOL	11 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00012111		LUBRICANT, SYNTHETIC FLUID, AUTOMATIC TRANSMISSION	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150PHM00012342		LUBRICANT, MOTOR OIL, 2 CYCLE	16 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00016425		LUBRICANT, GREASE, MULTIPURPOSE	14 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150PHM00016756		LUBRICANT, HYDRAULIC FLUID	2.5 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	78

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
9150PHM00016813		LUBRICANT, GREASE, MULTIPURPOSE	13.7 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
9150PHM00017169		LUBRICANT, CHAIN & CABLE, AEROSOL	12.75 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00018421		LUBRICANT, OIL, CHAINSAW	32 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00018463		LUBRICANT, SYNTHETIC, GEAR OIL	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00020677	915000F054388, 9150PHMHYGARD	LUBRICANT, OIL, HYDRAULIC FLUID, TRANSMISSION	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00020898	915000N003936	LUBRICANT, SILICONE COMPOUND, HEAVY DUTY	7.5 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00020934	9150PHM75W140	LUBRICANT, REAR AXLE OIL, 75W-140	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	48
9150PHM00023187		LUBRICANT, OIL, VACUUM PUMP	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00023379		LUBRICANT, AUTOMATIC TRANSMISSION FLUID	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		9
9150PHM00023419		LUBRICANT, MOTOR OIL, 2-CYCLE	2.6 OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00024264	685000N022182	LUBRICANT, METALWORKING FLUID	1 GAL CO - 1/EA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
9150PHM00025377	9150PHM0016LG	LUBRICANT, WHITE, GREASE, LITHIUM, AEROSOL	16 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00025377	9150PHM0016LG	LUBRICANT, WHITE, GREASE, LITHIUM, AEROSOL	16 OZ CN - 1/CN	N	N	ICD116830005-	CAR WASH	Cleaning/washing, detergent		12
9150PHM00026698		LUBRICANT, SILICONE COMPOUND	5.3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	72
9150PHM00027869		LUBRICANT, METALWORKING FLUID	4 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00028166		LUBRICANT, GREASE, BRAKE CALIPER	8 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00030432		LUBRICANT, OIL, TWO-CYCLE MOTOR	6.4 FL OZ PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
9150PHM00030494		LUBRICANT, OIL, COMPRESSOR	1 GAL BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00030652		LUBRICANT, FOOD GRADE SILICONE, AEROSOL	10.75 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	18
9150PHM00030887		LUBRICANT, GEAR OIL, 75W140	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00031050		LUBRICANT, OIL, METALWORKING FLUID	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
9150PHM00031178		LUBRICANT, METALWORKING FLUID	16 OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00031178		LUBRICANT, METALWORKING FLUID	16 OZ BT - 1/BT	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		72
9150PHM00035738		LUBRICANT, HYDRAULIC & TRANSMISSION OIL	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00036051		LUBRICANT, CHAIN AND CABLE, AEROSOL	12.75 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00037583		LUBRICANT, CORROSION INHIBITOR, AIRLESS PUMP	1 QT BT - 1/BT	N	N	IMI169230221-	TPECR DE-FLUIDIZATION	Miscellaneous, multiple operations		3
9150PHM00037700		LUBRICANT, HYDRAULIC & TRANSMISSION, TRACTOR	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150PHM00037940		LUBRICANT, TURBINE OIL, ISO 32	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		21
9150PHM00042201		LUBRICANT, HYDRAULIC OIL, 32	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00046315		LUBRICANT, WATER SOLUBLE, TUBE EXPANDER	1 QT CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	24
9150PHM00047528		LUBRICANT, THERMALLY CONDUCTIVE COMPOUND, ELECTRICAL COMPONENTS	3 OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00048645		LUBRICANT, OIL, AIR COMPRESSOR	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00048902		LUBRICANT, PENETRATING FLUID, AEROSOL	18 OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00049181		LUBRICANT, HYDRAULIC, TRACTOR	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	3
9150PHM00051415		LUBRICANT, HYDRAULIC FLUID, AW 46	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	6
9150PHM00052313		LUBRICANT, CONDITIONER, CLEANER, AIR OPERATED TOOLS	1 PT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00053008		LUBRICANT, SYNTHETIC, TRANSMISSION FLUID, 50W	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	12
9150PHM00053822		LUBRICANT, MOTOR OIL, 15W-40	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		180
9150PHM00059756		LUBRICANT, GREASE, SYNTHETIC, MULTI-PURPOSE	400 G JR - 1/JR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00061689		LUBRICANT, OIL, GEARS	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
9150PHM00061791		LUBRICANT, MULTIPURPOSE, ALUMINUM	14 FL OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	126
9150PHM00061849		LUBRICANT, GREASE, PTFE	14 OZ CA - 1/CA	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	108
9150PHM00061902		LUBRICANT, OIL, MULTI-WEIGHT	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9150PHM00062077		LUBRICANT, OIL, REFRIGERATION COMPRESSORS	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00063073		LUBRICANT, AUTOMATIC TRANSMISSION FLUID	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00063348		LUBRICANT, PNEUMATIC TOOLS	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00063519		LUBRICANT, AUTOMATIC TRANSMISSION FLUID	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00063635		LUBRICANT, ANTI-SEIZE, HIGH TEMP	40 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00064550		LUBRICANT, OIL, REFRIGERATION COMPRESSORS	8 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00065656		LUBRICANT, MOTOR OIL, 15W40	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		30
9150PHM00065662		LUBRICANT, MOTOR OIL, 0W-30	1 QT PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		627
9150PHM00065674		LUBRICANT, GREASE, DISC BRAKE/WHEEL BEARING	35 LB CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00066699		LUBRICANT, ANTI-SEIZE, METAL PARTS	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00073897		LUBRICANT, OIL, GEAR	3 FL OZ TU - 1/TU	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00074710		LUBRICANT, SUSPENSION	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		144
9150PHM00077466		LUBRICANT, TRANSFER CASE FLUID	1 QT BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00078428		LUBRICANT, DIESEL MOTOR OIL, 15W-40	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00078560		LUBRICANT, DIESEL MOTOR OIL, 15W-40	1 GAL PB - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00080548		LUBRICANT, GREASE, LITHIUM	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		12
9150PHM00081153		LUBRICANT, GREASE, BEARINGS	14 OZ CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150PHM00084057		LUBRICANT, ENGINE OIL, SAE 50	5 GAL CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR	Administrative, NOC		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - CSC/CSC - NELCSC01 - CSC CONTRACTOR - BUILDING BU233 - 636-1200										
MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							OPERATIONS			
9150PHM00085576		LUBRICANT, HYDRAULIC FLUID, TRANSMISSIONS	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		3
9150PHM00090556		LUBRICANT, LOCKS	.25 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00092044		LUBRICANT, MACHINES, GENERAL PURPOSE	4 OZ TU - 1/UN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00092724		LUBRICANT, MOTOR OIL, 30W	18 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00103055		LUBRICANT, SYNTHETIC MOTOR OIL, SAE 0W-20	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		720
9150PHM00104256		LUBRICANT, GEAR OIL, SAE 50	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00105993		LUBRICANT, LIMITED SLIP ADDITIVE	4 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00106886		LUBRICANT, MOTOR OIL, 5W-40	1 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9150PHM00302249		SYNTHETIC MOTOR OIL, SAE 5W-30	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		15
9150PHM00304606		LUBRICATING OIL, CARQUEST ATF DEXRON VI	55 GAL DR - 1/DR	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00515214		CUTTING FLUID	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		6
9150PHM00518278		LUBRICANT, OIL, AIR COMPRESSOR	5 GAL CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		36
9150PHM00522755		LUBRICATING OIL	1 QT CO - 1/CO	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		18
9150PHM00526516		SILICONE BASED LUBRICANT	7.5 FL OZ CN - 1/CN	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		72
9620002336712		GRAPHITE, DRY	1 LB CN - 1/LB	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC	100.0%	36
9920PHM00031738		LIGHTER, ODORLESS, CHARCOAL	64 FL OZ BT - 1/BT	N	N	AAD10282331--	CREECH - TPECR OPERATIONS	Administrative, NOC		60

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
3433011614998		TORCH SET, PROPANE, SELF IGNITING	14.1 OZ OT - 1/EA	N	N	IEQ143930463-	T-1 SYSTEM PMI'S/PREVENTATIVE MAINTENANCE	Equipment repair/prev. maint., NOC		3
3439000092334		DESOLDERING BRAID, UNTINNED COPPER, .075"	2 OZ SL - 1/SL	N	N	IMI169230268-	ROLAND MOBILE THREAT SYSTEM MAINTENANCE	Miscellaneous, multiple operations		15
3439000098808		FLUX, SOLDERING	1 QT CN - 1/QT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439000635203		WELDING ROD, MOLYBDENUM, .031"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439000695815		SOLDER, FLUX, RMA, WELDING	1 QT BT - 1/QT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		6
3439001059945		WELDING ELECTRODE, TUNGSTEN ALLOY, .093" (3/32") DIA, 10 COUNT	6.4 OZ PG - 1/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439001059948		WELDING ELECTRODE, TUNGSTEN, STABILIZED ARC, .125"	.11 LB EA - 10/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439001654186		WELDING ELECTRODE, STEEL, .125"	10 LB CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439001654198		WELDING ROD, IRON/MANGANESE ALLOY, .094"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439001788590		ROD, ALUMINUM ALLOY, WELDING, .062"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		15
3439001788597		WELDING ROD, NICKEL ALLOY, .062"	10 LB CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439002472982		WELDING ROD, ALUMINUM ALLOY, .125"	5 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439002472983		WELDING ROD, ALUMINUM ALLOY, .187"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439002554566		FLUX, PASTE, LEAD/TIN, SOLDERING	4 OZ CO - 1/CO	N	N	IBC193630381-	SOLDER PROCESS	Soldering, heated iron		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							FOR JT3 SHOPS			
3439002689654		WELDING ROD, ALUMINUM, 0.094"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439002699610		SOLDER, TIN ALLOY, .063"	16 OZ SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439002732536		SOLDER, TIN ALLOY, .125"	16 OZ SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439004001972		SOLDER, FLUX, CORROSION RESISTANT	4 FL OZ BT - 1/BT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		36
3439004977560		WELDING ELECTRODE, IRON FILLER, SMAW, .093"	10 LB CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439005290743		WELDING ROD, IRON/CHROMIUM ALLOY, 1/16" DIA	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439005554629		SOLDER, TIN ALLOY, .031"	16 OZ SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439006552089		WELDING ELECTRODE, TUNGSTEN ALLOY, .062" (1/16"), 10 COUNT	4.8 OZ PG - 1/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439007298972		WELDING ELECTRODE, TUNGSTEN, .156"	.11 LB EA - 10/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439007627105		SOLDER, TIN/LEAD ALLOY, .063"	1 LB SL - 1/SL	N	N	IMI169230268-	ROLAND MOBILE THREAT SYSTEM MAINTENANCE	Miscellaneous, multiple operations		6
3439007664711		SOLDER, TIN ALLOY, .032"	16 OZ SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		6
3439008195534		SOLDER, TIN/LEAD ALLOY, .062"	1 LB SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439008721411		WELDING ELECTRODE, TUNGSTEN ALLOY, .04"	.001 OZ PG - 1/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439008827351		WELDING ROD, ROUND, NICKEL/IRON ALLOY, .062"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB	Welding, multiple operations		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							SHOP			
3439009008737		WELDING ROD, IRON ALLOY, .062"	5 LB CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		15
3439009224555		SOLDER, TIN ALLOY, .32"	16 OZ SL - 1/SL	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
3439010132797		WELDING ROD, IRON/CHROMIUM, .062"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439010380526		SOLDER, TIN ALLOY, 0.025 "	1 LB SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		15
3439010396408		WELDING ELECTRODE, STEEL FILLER, SMAW, 1/8"	10 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439010555038		SOLDER, TIN ALLOY, .025 IN.	1 LB SL - 1/SL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439PHM00007892	9150CSLAC935D	ANTI-SPATTER COMPOUND	16 OZ JR - 1/JR	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
3439PHM00010078		FLUX, SOLDERING LIQUID	2 FL OZ BT - 1/BT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		12
3439PHM00010078		FLUX, SOLDERING LIQUID	2 FL OZ BT - 1/BT	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		12
3439PHM00011910		WELDING ROD, TUNGSTEN, 1/16"	.001 OZ EA - 1/EA	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		36
3439PHM00017054		FLUX, SOLDERING	125 ML CO - 1/CO	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		9
3439PHM00038428		FLUX, SOLDERING, PEN APPLICATOR	10 ML EA - 1/EA	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
3439PHM00071483		WELDING ELECTRODE, TUNGSTEN, 3/32"	2 LB PG - 1/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		36
3439PHM00072523		FLUX, TUNGSTEN, WELDING	5 OZ JR - 1/JR	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		6
3439PHM00072523		FLUX, TUNGSTEN, WELDING	5 OZ JR - 1/JR	N	N	IMI169230307-	TUNGSTEN ELECTRODE SHARPENING FOR WELDING	Miscellaneous, multiple operations		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
3439PHM00081801		WELDING ROD, TUNGSTEN, 1/16"	1 LB CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		36
3439PHM00084208		TINNER, LEAD FREE, SOLDERING	.5 OZ CO - 1/CO	N	N	IMI169230329-	REPAIR P-5 AND NACTS PODS	Miscellaneous, multiple operations		3
3439PHM00084208		TINNER, LEAD FREE, SOLDERING	.5 OZ CO - 1/CO	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		3
3439PHM00089626		ROSIN, DESOLDERING BRAID, .100 X 50 FT	.1 LB SL - 1/SL	N	N	IAB102130810-	ELECTRONIC DEVICES MAINTENANCE	Adhering/bonding/sealing - aerosol		6
3439PHM00106477		ELECTRODE, TUNGSTEN WELDING, 1/16"	.0001 OZ PG - 1/PG	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		36
3439PHM00305421		ANTIOXIDANT COPPER	8 FL OZ BT - 1/BT	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
5350PHM00081676		ABRASIVE, BLAST MEDIA, ALUMINUM OXIDE	50 LB BX - 1/BX	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
5610PHM00005654		CONCRETE, MIX, FAST SETTING	50 LB BG - 1/BG	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
5970001665697		INSULATING COMPOUND, ELECTRICAL	2 OZ TU - 1/TU	N	N	IEQ143930119-	T43 SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		6
5970002415406		INSULATING COMPOUND, ELECTRICAL, SILICONE GREASE	8 OZ JR - 1/CO	N	N	IEQ143930119-	T43 SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		36
5970009904924		INSULATING VARNISH, ELECTRICAL, AEROSOL	12 OZ CN - 1/CN	N	N	IAB102130810-	ELECTRONIC DEVICES MAINTENANCE	Adhering/bonding/sealing - aerosol		3
5970009904924		INSULATING VARNISH, ELECTRICAL, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
5970010829128		INSULATING COMPOUND, ELECTRICAL, CLEAR	10.3 OZ CA - 1/CA	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
5970PHM00050545		INSULATING COMPOUND, ELECTRICAL VARNISH	4 FL OZ CN - 1/CN	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
5970PHM00517573		TAPE, INSULATION, ELECTRICAL	.2 LB EA - 1/RO	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
6135013702599		BATTERY, LITHIUM, 3.6 V	32 G EA - 1/EA	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		18
6505002056513		ISOPROPYL ALCOHOL, USP	1 PT BT - 1/BT	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							E	operations		
6510015168714		ISOPROPAL ALCOHOL, SATURATED SWABS	.001 OZ PG - 1/PG	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		6
6810002056786		ALCOHOL, DENATURED	1 QT BT - 1/QT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		99
6810002056790		ALCOHOL, DENATURED	4 FL OZ BT - 1/BT	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		3
6810002232739		ACETONE, TECHNICAL	1 PT CN - 1/PT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
6810002865435		ISOPROPYL ALCOHOL, TECHNICAL	1 GAL BT - 1/GL	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		6
6810002865435		ISOPROPYL ALCOHOL, TECHNICAL	1 GAL BT - 1/GL	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		6
6810005437415		ALCOHOL, SPECIALLY DENATURED, FORMULA 3A	1 GAL CO - 1/GL	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		18
6810009838551		ISOPROPYL ALCOHOL, TECHNICAL	32 OZ PB - 1/QT	N	N	IBC193630381-	SOLDER PROCESS FOR JT3 SHOPS	Soldering, heated iron		18
6810PHM00064392		ALCOHOL, DENATURED	1 QT CN - 1/CN	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		3
6810PHM00074513		TRISODIUM PHOSPHATE, PAINTING PREPARATION	3 LB CO - 1/CO	N	N	ICP119630313-	ANTI-SLIP COATING FOR RADAR VAN WALKING SURF	Coating/painting, multiple operations		3
6830002298946		PROPANE, COMPRESSED GAS	20 LB CY - 1/CY	N	N	ISP203330490-	BAR-B-QUE GRILLING AND PORTABLE HEATERS	Supply and materials handling, NOC		60
6830013861396-1		PROPANE, ODORIZED, COMPRESSED GAS	16.4 OZ CY - 1/CY	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
6840PHM00096506		HERBICIDE, BRUSH AND WEED	1.33 GAL CO - 1/CO	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		3
6850003929751		CLEANER, OPTICAL LENS	2 FL OZ PB - 1/BT	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
6850007024297		SILICONE COMPOUND, CORROSION INHIBITOR	5.3 OZ TU - 1/TU	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							E			
6850008807616		SILICONE COMPOUND, CORROSION INHIBITOR	8 OZ TU - 1/TU	N	N	IEQ143930463-	T-1 SYSTEM PMI'S/PREVENTATIVE MAINTENANCE	Equipment repair/prev. maint., NOC		3
6850009279461		SILICONE COMPOUND, INSULATING GREASE	5 OZ TU - 1/TU	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
6850010150834		LAYOUT DYE, BLUE STEEL, AEROSOL	12 OZ CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		12
6850010539224		GALVANIZING COMPOUND	14 OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
6850010886507		LAYOUT DYE, RED	12 OZ CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		6
6850011583928		BRAKE CLEANER, AEROSOL	19 OZ CN - 1/CN	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		9
6850011589378		REMOVER, AEROSOL	16 OZ CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
6850013939054		CLEANER, ELECTRICAL CONTACTS, AEROSOL	12.5 OZ CN - 1/CN	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
6850PHM00024737		COOLANT, CUTTING/WELDING SYSTEMS	1 GAL CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		6
6850PHM00057906		EXHAUST FLUID, EMISSION LEVELS, DIESEL	2.5 GAL CO - 1/CO	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		3
6850PHM00067248		DIESEL FUEL ADDITIVE, EMISSIONS REDUCER	2.5 GAL CO - 1/CO	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		3
6850PHM00105689		CLEANING COMPOUND, SUMP	1 GAL BT - 1/BT	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
7035013217456		ISOPROPANOL, WIPES	1 G BX - 1/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		9
7520015428488		PAINT, MARKER, PINK	3 OZ TU - 1/EA	N	N	IBC213130355-	BRAZING/SOLDERING/WELD	Welding, multiple		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							ING/CUTTING FOR FAB SHOP	operations		
7930013068369		CLEANING COMPOUND, DETERGENT/DEGREASER, LOW VOC	1 GAL PB - 6/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		72
7930013068369-1		CLEANING COMPOUND, DETERGENT/DEGREASER, LOW VOC	1 GAL PB - 1/BT	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		6
7930013670995-1		CLEANING COMPOUND, SOLVENT, SURFACE PREP	1 GAL BT - 1/BT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
7930013738845		CLEANING COMPOUND, DETERGENT/DEGREASER	5 GAL CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		18
7930013738848		CLEANING COMPOUND, SOLVENT-DETERGENT	1 GAL BT - 6/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		72
7930013738849		CLEANING COMPOUND, DETERGENT/DEGREASER	22 FL OZ BT - 12/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		30
7930014120984		DEICER	45 LB DR - 1/DR	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		12
7930PHM00084183		CLEANING COMPOUND, LAVENDER, ALL PURPOSE	28 OZ BT - 1/BT	N	N	ICO116230208-	JANITORIAL MAINTENANCE	Cleaning, other- NOC		3
7930PHM00084272		ISOPROPANOL, WIPES, 80 CT	1 G BX - 1/BX	N	N	ICO116230208-	JANITORIAL MAINTENANCE	Cleaning, other- NOC		3
7930PHM00092148		CLEANING COMPOUND, HARDWOOD FLOOR	1 GAL CO - 1/CO	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		18
7930PHM00103133		CLEANING COMPOUND, SCREEN WIPES	3 OZ BX - 1/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		6
8010002970549		ENAMEL, GRAY, 36231, FLAT, EXTERIOR	1 QT CN - 1/QT	N	N	ICP119630330-	CORROSION CONTROL ON MT. IRISH ICE BRIDGE	Coating/painting, multiple operations		30
8010002970567		COATING, ALKYD ENAMEL, WHITE, 37875, FLAT	1 QT CO - 1/QT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		3
8010002970568		ALKYD ENAMEL, WHITE, 37875, FLAT, EXTERIOR	1 GAL CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		3
8010002970593		PRIMER, YELLOW, ALUMINUM, AEROSOL	11.5 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		6
8010005015798		PAINT, ZINC, LOW VOC, GRAY, AEROSOL	14 OZ CN - 1/CN	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							E			
8010005015798		PAINT, ZINC, LOW VOC, GRAY, AEROSOL	14 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		6
8010005985936		ENAMEL, OLIVE DRAB, 24084, SEMI-GLOSS, AEROSOL	16 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010006169143		ENAMEL, BLACK, 37038, FLAT, EXTERIOR, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		18
8010006169181		PRIMER, LIGHT GRAY, INTERIOR-EXTERIOR, AEROSOL	16 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010013316105		ALKYD, WHITE, 17875, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010013316107		ENAMEL, BLACK, 17038, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	IEQ143930119-	T43 SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		72
8010013316107		ENAMEL, BLACK, 17038, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		72
8010013316108		ENAMEL, BLACK, 37038, FLAT, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010013316109	8010001412952	ENAMEL, RED, 11136, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		18
8010013316110		ENAMEL, RED, 11105, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		3
8010013801773		ENAMEL, WHITE, 17773, GLOSS, AEROSOL	11 OZ CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010013803251		LATEX, WHITE, 27925, SEMIGLOSS, EXTERIOR	1 GAL CO - 1/GL	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
8010014171215		EPOXY RESIN, DARK GREEN, AIRCRAFT SURFACES, KIT	1 GAL KT - 1/KT	Y	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		3
8010PHM00003289		ENAMEL, SUNBURST YELLOW, GLOSS, AEROSOL	12 OZ CN - 1/CN	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		36
8010PHM00003557		ALKYD ENAMEL, BLACK, GLOSS, AEROSOL	15 OZ CN - 1/CN	N	N	ICP119630328-	CORROSION CTRL-ROLAND THREAT SUSPENSION UPGRADE	Coating/painting, multiple operations		36
8010PHM00004693		ACRYLIC ENAMEL, BLACK, GLOSS	1 GAL CN - 1/CN	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		3
8010PHM00006348		ENAMEL, BLACK,	12 OZ CN	N	N	IEQ143930138-	TOSS	Equipment		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		FLAT, AEROSOL	- 1/CN				PLATFORM MAINTENANCE	repair/prev. maint., NOC		
8010PHM00009352		ENAMEL, BLACK, GLOSS, AEROSOL	11 OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
8010PHM00011240		ALKYD, BLACK, SATIN, INDOOR / OUTDOOR, AEROSOL	12 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010PHM00012334		ENAMEL PRIMER, GRAY, AEROSOL	15 FL OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
8010PHM00012542		ACRYLIC, WHITE, GLOSS, AEROSOL	12 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		18
8010PHM00013102		ACRYLIC, BROWN, INTERIOR / EXTERIOR, METAL, AEROSOL	12 OZ CN - 1/CN	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		36
8010PHM00015367		ACRYLIC LATEX, EXTRA WHITE, GLOSS	5 GAL CO - 1/CO	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8010PHM00021014	8010PHM778083	PRIMER, METAL, AEROSOL	12 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010PHM00026170		ACRYLIC LACQUER, FLUORESCENT GREEN, FLAT, AEROSOL	11 OZ CN - 1/CN	N	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		18
8010PHM00027649		ENAMEL, WHITE, GLOSS, AEROSOL	12 FL OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		18
8010PHM00033168		PAINT, WHITE, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930119-	T43 SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		72
8010PHM00033168		PAINT, WHITE, FLAT, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		72
8010PHM00036159		PAINT, YELLOW, STRIPING	1 GAL CN - 1/CN	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		6
8010PHM00036834		PRIMER, GALVANIZING, AEROSOL	16 OZ CN - 1/CN	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		18
8010PHM00057872		ALKYD ENAMEL, SAFETY YELLOW, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8010PHM00059440		ACRYLIC COATING, GRAY PEARL, NON SLIP	1 GAL CN - 1/CN	N	N	ICP119630313-	ANTI-SLIP COATING FOR RADAR VAN WALKING SURF	Coating/painting, multiple operations		9
8010PHM00069132		ENAMEL, WHITE, SEMI-GLOSS,	12 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON	Coating/painting,		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		AEROSOL					THREAT SYSTEMS	multiple operations		
8010PHM00072851		ALKYD, BLACK, FLAT, RUST PREVENTATIVE, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		3
8010PHM00073175		EPOXY COATING, LIGHT GRAY, INTERIOR / EXTERIOR, NON-SLIP	1 GAL CN - 1/CN	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		24
8010PHM00073523		ENAMEL, BLACK, FLAT, PAINT PEN	.5 FL OZ EA - 1/EA	N	N	ICP119630018-	RADIO PAINT TOUCH UP	Coating/painting, multiple operations		9
8010PHM00082486		ENAMEL, WHITE, AEROSOL	12 OZ CN - 1/CN	N	N	IMI169230308-	CORROSION CONTROL ON T43 SYSTEM CLEVIS BRACKETS	Miscellaneous, multiple operations		9
8010PHM00082519		ROOF COATING, BRIGHT WHITE, SNOW ROOF	1 GAL CN - 1/CN	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		12
8010PHM00082920		ALKYD ENAMEL, SAFETY YELLOW, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8010PHM00084112		ACRYLIC, WHITE, GLOSS, AEROSOL	15 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
8010PHM00084812		PRIMER, GRAY, AEROSOL	15 OZ CN - 1/CN	N	N	ICP119630328-	CORROSION CTRL-ROLAND THREAT SUSPENSION UPGRADE	Coating/painting, multiple operations		36
8010PHM00085208		ENAMEL, COLD GALVANIZING, FLAT GRAY	20 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		18
8010PHM00088617		ACRYLIC LATEX, GRAY, PRIMER	1 PT CN - 1/CN	N	N	IMI169230308-	CORROSION CONTROL ON T43 SYSTEM CLEVIS BRACKETS	Miscellaneous, multiple operations		3
8010PHM00088617		ACRYLIC LATEX, GRAY, PRIMER	1 PT CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
8010PHM00089080		COATING, GRAY, WATER BASED, DECK/CONCRETE RESTORER	1 GAL CN - 1/CN	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		15
8010PHM00089109		LACQUER, LIGHT REFLECTIVE, COATING, AEROSOL	12 FL OZ CN - 1/CN	N	N	ICP119630315-	HAZARD IDENTIFICATION USING REFLECTIVE PAINT	Coating/painting, multiple operations		3
8010PHM00095409		COATING, WHITE, WATER BASED, DECK/CONCRETE RESTORER	4 GAL CO - 1/CO	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		15
8010PHM00100218		ENAME, EMERALD	12 OZ CN	N	N	IMI169230195-	UNMANNED	Miscellaneous		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		GREEN, GLOSS, AEROSOL	- 1/CN				THREAT SYSTEMS MAINTENANCE	us, multiple operations		
8010PHM00100458		ACRYLIC, TAR BLACK, LOW-LUSTER, PORCH & FLOOR	1 GAL CN - 1/CN	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		30
8010PHM00308850		MULTI COLORED TEXTURED AEROSOLS, 223524	12 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		3
8010PHM00516402		BRITE-MARK PAINT MARKER, 84007 GREEN MEDIUM TIP	12 ML CO - 1/CO	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		3
8010PHM00524827		PAINT PEN	1 FL OZ TU - 1/TU	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
8030000249634		SEALANT, INTEGRAL FUEL TANK AND CABIN, KIT	1 PT KT - 1/KT	Y	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		3
8030000812329		SEALANT, THREADLOCKING, PURPLE	10 CC PB - 10/BX	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
8030000812340		SEALANT, PARTS LOCKING, GREEN	50 ML PB - 1/BT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
8030002433285		SEALANT, ANTISEIZE, MOLYBDENUM DISULFIDE	8 OZ TU - 1/TU	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		18
8030002433285		SEALANT, ANTISEIZE, MOLYBDENUM DISULFIDE	8 OZ TU - 1/TU	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
8030003390310		SEALANT, PNEUMATIC & HYDRAULIC FITTINGS, BROWN	1.69 FL OZ BT - 6/BX	N	N	IMI169230268-	ROLAND MOBILE THREAT SYSTEM MAINTENANCE	Miscellaneous, multiple operations		3
8030003390310-1		SEALANT, PNEUMATIC & HYDRAULIC FITTINGS, BROWN	1.69 FL OZ BT - 1/BT	N	N	IMI169230268-	ROLAND MOBILE THREAT SYSTEM MAINTENANCE	Miscellaneous, multiple operations		18
8030005985915		SEALANT, CORROSION PREVENTIVE	1 PT CN - 1/PT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		135
8030009381947		SEALANT, CORROSION PREVENTIVE, AEROSOL	16 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		6
8030010693046		SEALANT, THREADLOCKING, PURPLE	50 ML BT - 1/BT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		36
8030010751156		SEALANT, LATEX CAULK, WHITE	10 OZ CA - 1/CA	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
							E			
8030011045392		SEALANT, THREADLOCKING, BLUE	10 CC BT - 10/BX	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
8030011045392-1		SEALANT, THREADLOCKING, BLUE	10 CC BT - 1/EA	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
8030011329624		SEALANT, THREADLOCKER, MEDIUM STRENGTH	10 ML BT - 1/BT	N	N	IAB102230318-	INSTALL HANGAR BANDS ON P-5 VERSION 2 PODS	Adhering/bonding/sealing - all usages		3
8030012991762		SEALANT, SILICONE, BLUE, AUTOMOTIVE	3.35 FL OZ TU - 1/TU	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
8030013470981		SEALANT, CORROSION PREVENTIVE COMPOUND	1 QT CN - 1/QT	N	N	IMI169230306-	CORROSION CONTROL ON P-5 PODS	Miscellaneous, multiple operations		3
8030013470981		SEALANT, CORROSION PREVENTIVE COMPOUND	1 QT CN - 1/QT	N	N	IEQ143930266-	T13 THREAT SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		3
8030013470983		SEALANT, CORROSION PREVENTATIVE, METAL PARTS	32 FL OZ BT - 1/BT	N	N	IEQ143930266-	T13 THREAT SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8030013815294		SEALANT, ANTISEIZE	16 OZ CN - 1/CN	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
8030013885606		SEALANT, PRIMER, THREADLOCKING	1.75 FL OZ BT - 1/BT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
8030015110063		SEALANT, THREADLOCKING, RED	10 CC BT - 1/BT	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
8030PHM00000938		SEALANT, CAULK, SILICONE, INTERIOR/EXTERIOR	10.1 OZ CA - 1/CA	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
8030PHM00002370		SEALANT, INSULATING VARNISH, ELECTRICAL	15 FL OZ CN - 1/CN	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		6
8030PHM00002370		SEALANT, INSULATING VARNISH, ELECTRICAL	15 FL OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		6
8030PHM00002982		SEALANT, GASKET, HIGH TEMP, RED	3 OZ TU - 1/TU	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
8030PHM00004614		SEALANT, CORROSION PREVENTATIVE	4 FL OZ BT - 1/BT	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
8030PHM00007578		SEALANT, ELECTRICAL	1 LB PG - 1/PG	N	N	IAB102230331-	SEALING CONDUIT AND CABLE RUNS AT BLDG PORT HOLES	Adhering/bonding/sealing - all usages		30
8030PHM00007786		SEALANT, BLACK,	3 OZ TU -	N	N	IMI169230195-	UNMANNED	Miscellaneous		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		SILICONE	1/TU				THREAT SYSTEMS MAINTENANCE	us, multiple operations		
8030PHM00015767		SEALANT, FOAM INSULATION, AEROSOL	12 OZ CN - 1/CN	N	N	IIS157530311-	RF CABLE HOLE AND CRACKING INSULATION	Insulation, multiple operations		30
8030PHM00029274		SEALANT, INSULATION, FOAM, AEROSOL	12 OZ CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		6
8030PHM00032737		SEALANT, CORROSION PREVENTIVE, GREASE COMPOUND	1 GAL CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		6
8030PHM00044069		SEALANT, ENCAPSULATING & POTTING COMPOUND	375 ML KT - 1/KT	Y	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
8030PHM00050305		SEALANT, ASBESTOS FREE, GENERAL PURPOSE	1 LB PG - 1/PG	N	N	ICP119630054-	SITE GROUNDING COATING	Coating/painting, multiple operations		6
8030PHM00051471		SEALANT, CLEAR, SILICONE, CONSTRUCTION	10.1 OZ CA - 1/CA	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		15
8030PHM00070800		SEALANT, THREADLOCKER, HIGH STRENGTH	10 ML BT - 1/BT	N	N	IMI169230310-	MODIFIED HANGAR BAND INSTALLATION ON ACMI PODS	Miscellaneous, multiple operations		3
8030PHM00075959		SEALANT, COAL TAR, MASTIC	1 QT CN - 1/CN	N	N	ICP119630054-	SITE GROUNDING COATING	Coating/painting, multiple operations		3
8030PHM00088631		SEALANT, POLYURETHANE, FOAM, PEST BLOCKING, AEROSOL	16 FL OZ CN - 1/CN	N	N	IPC176730309-	RODENT CONTROL FOR FIBER BOXES ON THE NORTH RANGES	Pest control, aerosol can spray		36
8030PHM00302013		SEALANT, SURFACES, COMPOSITE PLUGS AND PATTERNS, WOODS, VENEERS, PLASTER, CONCRETE, GRP	1 GAL CN - 1/CN	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
8040000618303		ADHESIVE, PLASTIC EPOXY, GENERAL PURPOSE, KIT	3 OZ KT - 1/KT	Y	N	IAB102730040-	EMERGENCY ACTION TCTO-POD SHOP	Adhering/bonding/sealing - squeeze tube		3
8040000922816		ADHESIVE, PLASTIC EPOXY, MULTI-PURPOSE, KIT	4 G KT - 100/BX	Y	N	IEQ143930463-	T-1 SYSTEM PMI'S/PREVENTATIVE MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040000922816		ADHESIVE, PLASTIC EPOXY, MULTI-PURPOSE, KIT	4 G KT - 100/BX	Y	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		3
8040001178510		ADHESIVE,	3 OZ TU -	N	N	IMI169230060-	POD	Miscellaneous		36

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		SILICONE, CLEAR, ELECTRONICS	1/TU				MAINTENANCE	us, multiple operations		
8040001450020		ADHESIVE, SILICONE, GRAY, ELECTRONICS	3 FL OZ TU - 1/TU	N	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040002708137		ADHESIVE, PLASTIC EPOXY, STRUCTURAL METAL APPLICATIONS, KIT	1 QT KT - 1/KT	Y	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		12
8040002904301		ADHESIVE, POLYCHLOROPRENE, GENERAL PURPOSE	1 QT CN - 1/QT	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		72
8040007019546		ADHESIVE, SILICONE, CLEAR, GENERAL PURPOSE, KIT	5.7 OZ KT - 1/KT	Y	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		30
8040008339563		ADHESIVE, SILICONE, GENERAL PURPOSE, KIT	5.7 OZ KT - 1/KT	Y	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		18
8040008449707		ADHESIVE, CONTACT, NEOPRENE	1 PT CN - 1/PT	N	N	IEQ143930463-	T-1 SYSTEM PMI'S/PREVENTATIVE MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040008779872		ADHESIVE, THIXOTROPIC PASTE, WHITE, GENERAL PURPOSE, KIT	3.3 FL OZ KT - 1/KT	Y	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		12
8040009386860		ADHESIVE, SYNTHETIC RUBBER, AEROSOL	24 OZ CN - 1/CN	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		36
8040011943457		ADHESIVE, CLEAR, LAMINATES, WOOD, AEROSOL	24 OZ CN - 1/CN	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
8040012503969		ADHESIVE, THREADLOCKER, BLUE, AUTOMOTIVE	50 ML BT - 1/BT	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8040012503969		ADHESIVE, THREADLOCKER, BLUE, AUTOMOTIVE	50 ML BT - 1/BT	N	N	IEQ143930266-	T13 THREAT SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8040013151759		ADHESIVE, CLEAR, MULTI-USE	.334 FL OZ BT - 1/BT	N	N	IEQ143930138-	TOSS PLATFORM MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040013317133		ADHESIVE, NON-CORROSIVE, ELECTRONICS	2.8 OZ TU - 1/TU	N	N	IEQ143930119-	T43 SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		6
8040014467381		ADHESIVE, PLASTIC EPOXY, METAL AND THERMOPLASTICS, KIT	1.5 QT KT - 1/KT	Y	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
8040PHM00013899		ADHESIVE, AUTOMOTIVE, AEROSOL	16 OZ CN - 1/CN	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		6
8040PHM00014230		ADHESIVE, EPOXY, KIT	10 OZ KT - 1/KT	Y	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
8040PHM00014230		ADHESIVE, EPOXY, KIT	10 OZ KT - 1/KT	Y	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
8040PHM00014303		ADHESIVE, SILICONE SEALANT	10.1 OZ CA - 1/TU	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		6
8040PHM00023878		ADHESIVE, THREADLOCKER	28 FL OZ CA - 1/CA	Y	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
8040PHM00025014		ADHESIVE, HOUSEHOLD GLUE, CLEAR	10 OZ TU - 1/TU	N	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		36
8040PHM00026540	804000IMP0809	ADHESIVE, YELLOW, AUTOMOTIVE, AEROSOL	19 OZ CN - 1/CN	N	N	IMI169230060-	POD MAINTENANCE	Miscellaneous, multiple operations		8
8040PHM00027355		ADHESIVE, CONTACT CEMENT	1 QT CN - 1/CN	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		6
8040PHM00031179		ADHESIVE, THREADLOCKER, KIT	10 OZ CA - 1/KT	Y	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
8040PHM00038874		ADHESIVE, CLEAR, SELF LEVELING	2 FL OZ TU - 1/TU	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040PHM00047500		ADHESIVE, CLEAR, UV RESISTANT	10.2 FL OZ CA - 1/CA	N	N	IMI169230195-	UNMANNED THREAT SYSTEMS MAINTENANCE	Miscellaneous, multiple operations		12
8040PHM00050666		ADHESIVE, THREADLOCKER	9.3 FL OZ CA - 1/CA	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		6
8040PHM00059110		ADHESIVE, SILVER EPOXY, ELECTRONICS, KIT	14 G KT - 1/KT	Y	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		3
8040PHM00069766		ADHESIVE, ANCHORING, CONCRETE, KIT	22 OZ CA - 1/KT	Y	N	IHJ145430316-	JT3 FACILITY MAINTENANCE	Facility maintenance, multiple operations		18
8040PHM00069766		ADHESIVE, ANCHORING, CONCRETE, KIT	22 OZ CA - 1/KT	Y	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		18
8040PHM00075851		ADHESIVE, CORROSION RESISTANT, AEROSOL	16 OZ CN - 1/CN	N	N	ICP119630054-	SITE GROUNDING COATING	Coating/painting, multiple operations		18
8040PHM00077387		ADHESIVE, GENERAL PURPOSE, AEROSOL	13.5 OZ CN - 1/CN	N	N	IAB102130389-	GLUE RADAR ABSORBING MATERIAL TO PLYWOOD	Adhering/bonding/sealing - aerosol		9
8040PHM00092159		ADHESIVE, CLEAR, CONSTRUCTION,	9 FL OZ CO -	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple		6

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		ALL-PURPOSE	1/CO				E	operations		
8040PHM00103339		ADHESIVE, UV-RESISTANT	10.2 FL OZ CA - 1/CA	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		18
8520PHM00054920		HAND SOAP, POWDERED, HEAVY DUTY	5 LB BX - 1/BX	N	N	ICO116130383-	HOUSEKEEPING/JANITORIAL AT ALL SITES	Cleaning, other-multiple operations		3
9150000761584		LUBRICANT, GREASE	1 FL OZ TU - 1/TU	N	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		36
9150001759154		LUBRICANT, THREAD CUTTING FLUID	1 PT CN - 1/PT	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		6
9150004229550		LUBRICANT, METALWORKING FLUID, ALUMINUM	1 PT CN - 1/PT	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		6
9150009531694		LUBRICANT, GREASE, GENERAL PURPOSE	14 FL OZ CA - 1/CA	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
9150009547422		LUBRICANT, SOLID FILM, MOLYBDENUM DISULFIDE	1 QT CN - 1/QT	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		36
9150010355396		LUBRICANT, GEAR OIL, 85W-140	55 GAL DR - 1/DR	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		30
9150010546453		LUBRICANT, CLEANER & PRESERVATIVE, FIREARMS	1 PT BT - 1/PT	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		36
9150011127052		LUBRICANT, GREASE, MOLYBDENUM DISULFIDE	1 LB CN - 1/EA	N	N	IEQ143930463-	T-1 SYSTEM PMI'S/PREVENTATIVE MAINTENANCE	Equipment repair/prev. maint., NOC		3
9150012342193		LUBRICANT, GREASE, SILICONE INSULATED ELECTRICAL	10 OZ TU - 1/TU	N	N	IEQ143930475-	JTE MAINTENANCE	Equipment repair/prev. maint., NOC		6
9150012476313		LUBRICANT, PENETRATING OIL, AEROSOL	10 OZ CN - 1/CN	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		36
9150012602534		LUBRICANT, SOLID FILM, MOLYBDENUM, AEROSOL	16 OZ CN - 1/CN	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		144
9150014668594		LUBRICANT, HYDRAULIC FLUID	5 GAL CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		15
9150PHM00003460		LUBRICANT, HYDRAULIC FLUID,	21 FL OZ PB - 1/BT	N	N	IMI169230268-	ROLAND MOBILE	Miscellaneous, multiple		3

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		ISO 68					THREAT SYSTEM MAINTENANCE	operations		
9150PHM00008224		LUBRICANT, CABLE PULLING	5 GAL CO - 1/CO	N	N	IMI169230146-	COMM SHOP MAINTENANCE	Miscellaneous, multiple operations		3
9150PHM00009932		LUBRICANT, GREASE, MULTIPURPOSE	14 OZ CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		6
9150PHM00016425		LUBRICANT, GREASE, MULTIPURPOSE	14 OZ CA - 1/CA	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
9150PHM00018507	9150PHM014051	LUBRICANT, METAL WORKING FLUID, THREADS	1 GAL PB - 1/BT	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
9150PHM00043243		LUBRICANT, ANTI-SEIZE, HIGH TEMPERATURE	8 OZ CN - 1/CN	N	N	IEQ143930266-	T13 THREAT SYSTEM MAINTENANCE	Equipment repair/prev. maint., NOC		3
9150PHM00056676		LUBRICANT, GEAR OIL, ISO 220	5 GAL CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
9150PHM00075545		LUBRICANT, GREASE, SYNTHETIC	14.5 OZ CA - 1/CA	N	N	IEQ143930053-	THREAT HARDWARE & COMM MAINTENANCE	Equipment repair/prev. maint., NOC		3
9150PHM00080957		LUBRICANT, HYDRAULIC OIL, 46	5 GAL CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		3
9150PHM00084051		LUBRICANT, GREASE, ZINC	14 OZ CA - 1/CA	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
9150PHM00089770		LUBRICANT, PNEUMATIC TOOL, CONDITIONER	13.5 FL OZ CO - 1/CO	N	N	IBC213130355-	BRAZING/SOLDERING/WELDING/CUTTING FOR FAB SHOP	Welding, multiple operations		30
9150PHM00090479		LUBRICANT, OIL, MASTS	16 FL OZ BT - 1/BT	N	N	IEQ143930148-	HARDWARE ENGINEERING MAINTENANCE	Equipment repair/prev. maint., NOC		3
9150PHM00090656		LUBRICANT, GEAR & BEARING OIL	1 GAL CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
9150PHM00090657		LUBRICANT, GEAR OIL	1 GAL CO - 1/CO	N	N	IEQ163030370-	FABRICATION SHOP EQUIPMENT MAINTENANCE	Lubricating, multiple operations		3
9150PHM00090677		LUBRICANT,	1 QT BT -	N	N	IEQ163030370-	FABRICATION	Lubricating,		9

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Path: Reporting-> Report Management-> Hazardous Materials-> Authorizations Reports-> Material

Choices: [Installation(s): NELLIS AIR FORCE BASE] [Command(s): All] [Organization(s): All] [Shop(s): NELJT358 - JT3, NELCSC01 - CSC CONTRACTOR] [MSN(s): All] [Include LSN: Yes]

Material Authorizations in Shop Sequence

NELLIS AIR FORCE BASE - ACC - NTTR/JT3 - NELJT358 - JT3 - BUILDING BU4228 - 399-9966 EXT 323

MSN	LSN	Noun	CUP - QIP/SUI	Kit?	Bulk?	Process Id	Local Process Name	Process Name	Distribution	Max On Hand
		GREASE, SYNTHETIC	1/BT				SHOP EQUIPMENT MAINTENANCE	multiple operations		
9620005299629		GRAPHITE, DRY	1.5 OZ BT - 1/EA	N	N	ICP119630382-	CORROSION CONTROL ON THREAT SYSTEMS	Coating/painting, multiple operations		6

APPENDIX B – SEPTIC TANKS, GREASE TRAPS, AND OIL WATER SEPARATORS ON NTTR

List of Septic Tanks, Grease Traps, and Oil Water Separators on NTTR

(Davis 2016)

Onsite Disposal Systems (Septic Tanks)

Install	Facility	Local Designation	Quantity	Code	Service Date	Rpa Description Text	Action
NTTR	2273	BLDG 2265 2275)	1000	GA	1-Jan-72	SEPTIC TANK - ACTIVE	Permit
NTTR	2296	BLDG 2295)	1000	GA	1-Jan-83	SEPTIC TANK - ACTIVE	Permit
NTTR	2366	(SFARANGE 63	1000	GA	1-Jan-82	SEPTIC TANK - ACTIVE	Permit?
NTTR	2383	BLDG 2382	15000	GA	4-Oct-11	SEPTIC TANK - ACTIVE	Permit
NTTR	2408	(SFA)	5000	GA	1-Jan-92	SEPTIC TANK - ACTIVE	Permit
NTTR	12284	BLDG 2284 PB)	1000	GA	1-Jan-82	SEPTIC TANK - ACTIVE	Permit (2)?
NTTR	12284	BLDG xxxx PB)				SEPTIC TANK - ACTIVE	Permit
NTTR	81011	(TOLICHA PEAK)	2000	GA	25-Apr- 00	SEPTIC TANK - ACTIVE	Permit
NTTR	81020	(TOLICHA PK MAINT COMPOUND)	2000	GA	1-Jan-79	SEPTIC TANK - ACTIVE	Permit
NTTR	83008	TANK (TONOPAH EW O&M)	12000	GA	1-Jan-80	SEPTIC TANK - ACTIVE	Permit
Creech	908	FACILITY 905/ACTUAL SIZE IS 1.5)	2000	GA	10-Jun- 04	SEPTIC TANK -?	Close?
Creech	3923	(MUNITIONS STORAGE AREA)	4000	GA	1-Jan-93	SEPTIC TANK - Abandoned	Close
Creech	3937	(NEAR FAC 3926)	3000	GA	1-Jan-90	SEPTIC TANK Abandoned	Close
Creech	6099	BUILDING 99	1000	GA	10-Dec- 04	Pesticide Holding Tank Active - Depending of Pesticide may be a RCRA UST	Permit
Creech	819	Main gate				Holding Tank - Sewer	Permit

Creech AFB				
Creech Grease Traps				
No.	Bldg.	Activity		Size (gal)
1	71	Dining Hall		>450

Creech OWS's (Sand/Oil Interceptors)				
No.	Bldg.	Activity		Size (gal)
1	85	Fire Dept - mop water		160
2	115	Refueler Vehicle Shop		790
3	121	Fuels Maintenance Shop		>450
4	225.1	Vehicle Maintenance		995
5	227	Heavy Equipment Shop		1500
6	271	15th RS Communcations		
7	279	AGE Maintenance		
8	718	15th Maintenance Hanger		

APPENDIX C – REGULATED ACTIVE AND INACTIVE UNDERGROUND STORAGE TANKS

List of Federally Regulated Active and Inactive Underground Storage Tanks

(NDEP 2016)

Facility ID #	Tank ID #	Federally Regulated UST	AST	Tank Status	Tank Capacity	Substance	Tank Material	Secondary Containment / CP	Pipe Material	Secondary Containment / CP	Date Installed
7-000086	1	TRUE	FALSE	Permanently Out of Use	1000	Hazardous Substance	Fiberglass Reinforced Plastic	None	No Piping	None	01/01/85
7-000086	2	TRUE	FALSE	Currently in Use	10000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	None	04/24/88
7-000086	3	TRUE	FALSE	Currently in Use	10000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	None	04/24/88
7-000086	4	TRUE	FALSE	Currently in Use	10000	Diesel	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	None	04/24/88
7-000086	5	TRUE	FALSE	Currently in Use	10000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	None	04/24/88
7-000086	6	TRUE	FALSE	Currently in Use	10000	Diesel	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	None	04/24/88
7-000086	7	TRUE	FALSE	Permanently Out of Use	2500	Used Oil	Fiberglass Reinforced Plastic	Double-Walled	Copper	Cathodically Protected (Not Specified)	04/24/89
7-000086	8	TRUE	FALSE	Permanently Out of Use	2500	Used Oil	Fiberglass Reinforced Plastic	Double-Walled	Copper	Cathodically Protected (Not Specified)	04/24/89
7-000086	9	TRUE	FALSE	Permanently Out of Use	550	New Oil	Fiberglass Reinforced Plastic	Double-Walled	Other	None	04/24/89
7-000086	10	TRUE	FALSE	Permanently Out of Use	550	New Oil	Fiberglass Reinforced Plastic	Double-Walled	Copper	Cathodically Protected (Not Specified)	04/24/89
7-000086	11	TRUE	FALSE	Permanently Out of Use	550	New Oil	Fiberglass Reinforced Plastic	Double-Walled	Other	None	04/24/89
7-000086	12	TRUE	FALSE	Permanently Out of Use	550	New Oil	Fiberglass Reinforced Plastic	Double-Walled	Other	None	04/24/89
7-000086	13	TRUE	FALSE	Permanently Out of Use	550	New Oil	Fiberglass Reinforced Plastic	Double-Walled	Copper	Cathodically Protected (Not Specified)	04/24/89
7-000086	14	TRUE	FALSE	Permanently Out of Use	1000	Other (petroleum products)	Fiberglass Reinforced Plastic	None	Bare Steel	None	04/24/89
7-000086	15	TRUE	FALSE	Currently in Use	1000	Jet Fuel	Fiberglass Reinforced Plastic	Double-Walled	Fiberglass Reinforced Plastic	Double-Walled	11/01/95
7-000086	16	TRUE	FALSE	Permanently Out of Use	1000	Other (petroleum products)	Fiberglass Reinforced Plastic	Double-Walled	Copper	None	04/24/89
7-000086	17	TRUE	FALSE	Permanently Out of Use	500	Diesel	Asphalt Coated or Bare Steel	None	Bare Steel	None	04/01/82
7-000086	18	TRUE	FALSE	Permanently Out of Use	285	Used Oil	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	None	
7-000086	19	TRUE	FALSE	Permanently Out of Use	500	Diesel	Asphalt Coated or Bare Steel	None	Bare Steel	None	04/01/83
7-000086	20	FALSE	FALSE	Permanently Out of Use	6000	Other (non regulated substance)	Fiberglass Reinforced Plastic	Double-Walled	Copper	None	04/24/89
7-000086	21	TRUE	FALSE	Permanently Out of Use	6000	Jet Fuel	Fiberglass Reinforced Plastic	None	Not Listed	Cathodically Protected (Not Specified)	04/24/86
7-000086	22	TRUE	FALSE	Permanently Out of Use	10000	Gasoline	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Not Listed	Cathodically Protected (Not Specified)	04/24/83
7-000086	23	TRUE	FALSE	Permanently Out of Use	10000	Diesel	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Not Listed	Cathodically Protected (Not Specified)	04/24/83
7-000086	24	TRUE	FALSE	Permanently Out of Use	285	Other (petroleum products)	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Unknown	None	04/24/83
7-000086	25	TRUE	FALSE	Permanently Out of Use	10000	Gasoline	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Not Listed	Cathodically Protected (Not Specified)	04/24/83
7-000086	26	TRUE	FALSE	Permanently Out of Use	5000	Jet Fuel	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Not Listed	Cathodically Protected (Not Specified)	04/24/83
7-000160	1	TRUE	FALSE	Currently in Use	10000	Gasoline	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	Aboveground Piping	01/01/84
7-000160	2	TRUE	FALSE	Permanently Out of Use	6000	Diesel	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	No Piping	None	01/01/80
7-000160	3	TRUE	FALSE	Currently in Use	15000	Diesel	Fiberglass Reinforced Plastic	None	Other	Aboveground Piping	01/01/84
7-000160	4	TRUE	FALSE	Permanently Out of Use	1000	Diesel	Asphalt Coated or Bare Steel	Cathodically Protected (Galvanic)	No Piping	None	01/01/70
7-000162	1	TRUE	FALSE	Permanently Out of Use	10000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Bare Steel	Cathodically Protected (Not Specified)	01/01/83
7-000162	2	TRUE	FALSE	Permanently Out of Use	10000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Bare Steel	Cathodically Protected (Not Specified)	01/01/83
7-000162	3	TRUE	FALSE	Permanently Out of Use	10000	Diesel	Fiberglass Reinforced Plastic	Double-Walled	Bare Steel	Cathodically Protected (Not Specified)	01/01/83
7-000162	4	TRUE	FALSE	Permanently Out of Use	10000	Diesel	Fiberglass Reinforced Plastic	Double-Walled	Bare Steel	Cathodically Protected (Not Specified)	01/01/83
7-000162	5	TRUE	FALSE	Permanently Out of Use	5000	Diesel	Asphalt Coated or Bare Steel	None	Bare Steel	None	01/01/56
7-000162	6	TRUE	FALSE	Permanently Out of Use	1000	Diesel	Asphalt Coated or Bare Steel	Cathodically Protected (Not Specified)	Galvanized Steel	Cathodically Protected (Not Specified)	01/01/63
8-000877	1	TRUE	FALSE	Permanently Out of Use	10000	Diesel	Concrete	None	Unknown	None	04/15/46
8-001008	1	TRUE	FALSE	Temporarily Out of Use	8000	Gasoline	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	None	03/16/89
8-001008	2	TRUE	FALSE	Temporarily Out of Use	8000	Gasoline	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	None	03/16/89
8-001008	3	TRUE	FALSE	Temporarily Out of Use	8000	Gasoline	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	None	03/16/89
8-001008	4	TRUE	FALSE	Temporarily Out of Use	8000	Diesel	Fiberglass Reinforced Plastic	None	Fiberglass Reinforced Plastic	None	03/16/89
8-001796	1	TRUE	FALSE	Permanently Out of Use	25000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Plastic	Double-Walled	11/01/91

Facility ID #	Tank ID #	Federally Regulated UST	AST	Tank Status	Tank Capacity	Substance	Tank Material	Secondary Containment / CP	Pipe Material	Secondary Containment / CP	Date Installed
8-001796	2	TRUE	FALSE	Permanently Out of Use	25000	Diesel	Fiberglass Reinforced Plastic	Double-Walled	Plastic	Double-Walled	11/01/91
8-002210	1	TRUE	FALSE	Currently in Use	12000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Plastic	Double-Walled	12/17/09
8-002210	1	TRUE	FALSE	Currently in Use	12000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Plastic	Double-Walled	12/17/09
8-002210	1	TRUE	FALSE	Currently in Use	12000	Gasoline	Fiberglass Reinforced Plastic	Double-Walled	Plastic	Double-Walled	12/17/09
H-000060	1	FALSE	FALSE	Permanently Out of Use	500	Heating Oil	Asphalt Coated or Bare Steel	None	Bare Steel	None	

APPENDIX D – EPCRA TIER II REPORTED STORAGE TANKS

List of Storage Tanks for EPCRA Tier II Toxic Release Inventory Reporting Year 2015

(USAF, 2016)

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: LL 100 (AVGAS)

Specific Gravity: 0.74

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Creech (660-5)	5,000	4,600	CDRL I003
Creech (660-6)	5,000	4,600	CDRL I003
Creech	1,000	900	Creech Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Total Max Tank Capacity (gal)	13,000	11,900	
Total Max Daily Amount (lbs/day)	80,231		
Total Ave Daily Amount (lbs/day)	73,442		

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Liquid Oxygen (LOX)

Specific Gravity: 1.14

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Comments
Nellis	10,000	Nellis Tank List

Total Max Tank Capacity (gal) 10,000

Total Max Daily Amount (lbs/day) 95,076

Total Ave Daily Amount (lbs/day) 85,568

From CY2015 fuels report, throughput was 52,375 gal

Ry 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Liquid Nitrogen (LIN)

Specific Gravity: 0.967

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Comments
Nellis	10,000	Nellis Tank List
Total Max Tank Capacity (gal)	10,000	
Total Max Daily Amount (lbs/day)	80,648	
Total Ave Daily Amount (lbs/day)	72,583	

From CY2015 fuels report, throughput was 30,533 gal

RX 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Propane

Specific Gravity: 0.512

Tank Avg Daily Capacity: 87%

Installation	Max Tank Capacity (gal)	Avg Tank Capacity (gal)	Comments
Nellis	12,000	10,800	Info from POC
Creech (Point Bravo)	500	435	CDRL I003
Creech (Point Bravo)	500	435	CDRL I003
Creech (Point Bravo)	500	435	CDRL I003
Creech (Silver Flag Alpha)	1,000	870	CDRL I003
Creech	500	435	CDRL I003
Creech	1,000	870	CDRL I003
Creech	1,000	870	CDRL I003
Creech	9,200	8,004	CDRL I003
Creech	500	435	CDRL I003
Creech	500	435	CDRL I003
Creech	1,500	1,305	CDRL I003
Creech	500	435	CDRL I003
Creech	250	218	CDRL I003
Creech	1,000	870	CDRL I003
Creech	500	435	CDRL I003
Creech	500	435	CDRL I003
Creech	1,000	870	CDRL I003
Creech	1,000	870	CDRL I003
Creech	1,000	870	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	500	435	CDRL I003
Creech	500	435	CDRL I003
Creech	3,900	3,393	CDRL I003
Creech	1,465	1,275	CDRL I003
Creech	1,465	1,275	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	3,900	3,393	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	3,900	3,393	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	500	435	CDRL I003
Creech	3,900	3,393	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	3,900	3,393	CDRL I003
Creech	3,900	3,393	CDRL I003

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Propane

Specific Gravity: 0.512

Tank Avg Daily Capacity: 87%

Installation	Max Tank Capacity (gal)	Avg Tank Capacity (gal)	Comments
Creech	500	435	CDRL I003
Creech	6,565	5,712	CDRL I003
Creech	1,990	1,731	CDRL I003
Creech	1,900	1,653	CDRL I003
Creech	250	218	CDRL I003
Creech	2000	1,740	CDRL I003
Creech	2000	1,740	CDRL I003
Creech	1000	870	CDRL I003
NTTR	1,000	870	CDRL I003
NTTR	1,000	870	CDRL I003
NTTR	1,150	1,001	CDRL I003

Total Max Tank Capacity (gal) 121,025 105,652

Total Max Daily Amount (lbs/day) 516,786

Total Ave Daily Amount (lbs/day) 451,141

Assumptions:

The Nellis 12,000-gallon tank has an average capacity of 90% as provided by POC

All other tank average capacities assumed to be 87% per Nellis AFB

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: JP-8 - ASTs

Specific Gravity: 0.8

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Capacity (gal)	Comments
Nellis	1,000	900	Nellis Environmental Tanks List
Nellis	500	450	Nellis Environmental Tanks List
Nellis	280	252	Nellis Environmental Tanks List
Nellis	500	540	Nellis Environmental Tanks List
Nellis	120	108	Nellis Environmental Tanks List
Nellis	403,200	362,880	Nellis Environmental Tanks List
Nellis	5,000	4,500	Nellis Environmental Tanks List
Nellis	420,000	378,000	Nellis Environmental Tanks List
Nellis	420,000	378,000	Nellis Environmental Tanks List
Nellis	756,000	680,400	Nellis Environmental Tanks List
Nellis	588,000	529,200	Nellis Environmental Tanks List
Nellis	25,000	22,500	Nellis Environmental Tanks List
Nellis	25,000	22,500	Nellis Environmental Tanks List
Nellis	25,000	22,500	Nellis Environmental Tanks List
Nellis	25,000	22,500	Nellis Environmental Tanks List
Nellis	2,500	2,250	Nellis Environmental Tanks List
Nellis	5,000	4,500	Nellis Environmental Tanks List
Nellis	2,500	2,250	Nellis Environmental Tanks List
Nellis	420,000	378,000	Nellis Environmental Tanks List
Nellis	420,000	378,000	Nellis Environmental Tanks List
Creech	30,000	22,000	CDRL I003
Creech	30,000	22,000	CDRL I003
Creech	30,000	22,000	CDRL I003
Creech	70,000	64,000	CDRL I003

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: JP-8 - ASTs

Specific Gravity: 0.8

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Capacity (gal)	Comments
NTTR (Tonopah Test Range)	253,242	112,500	NTTR
NTTR (Tonopah Test Range)	253,242	112,500	NTTR
NTTR (Tonopah Test Range)	253,242	112,500	NTTR
NTTR (Tonopah Test Range)	253,242	112,500	NTTR
Total Max Tank Capacity (gal)	4,717,568	3,770,230	
Total Max Daily Amount (lbs/day)	31,475,614		
Total Ave Daily Amount (lbs/day)	25,154,975		

Assumptions:

NTTR tanks have a capacity of 259,512 gal, but the high level shutoff is set at 253, 214 gal (max storage). The average storage for NTTR tanks stated by POC as 450,000 gal

Nellis tanks have an average capacity of 90%

All other tank average capacities provided by Nellis AFB

Creech Throughput 621,028 gallons

NTTR Throughput 978,723 gallons

Nellis throughput 58,009,637 gallons (total)

R_Y 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: JP-8 - USTs

Specific Gravity: 0.8

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Capacity (gal)	Comments
Nellis	10,000	9,000	Nellis Tanks List
Nellis	4,000	3,600	Nellis Tanks List
Total Max Tank Capacity (gal)	14,000	12,600	
Total Max Daily Amount (lbs/day)	93,408		
Total Ave Daily Amount (lbs/day)	84,067		

Assumption:

Tanks have an average capacity of 90%

Nellis throughput 58,009,637 gallons (total)

Ry 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Hydrazine

Specific Gravity: 1.01

Installation	Max Tank Capacity (gal)	Comments
Nellis (Bldg 460)	600	POC confirmed storage of 600 lbs for hydrazine in CY 2015.
Total Max Tank Capacity (gal)	600	
Total Max Daily Amount (lbs/day)	600	
Total Ave Daily Amount (lbs/day)	600	

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Unleaded Gasoline-ASTs
 Specific Gravity: 0.74
 Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	20,000	18,000	Nellis Tanks List
Nellis	2,000	1,800	Nellis Tanks List
Nellis	10,000	9,000	Nellis Tanks List
Nellis	10,000	9,000	Nellis Tanks List
Nellis	10,000	9,000	Nellis Tanks List
Nellis	10,000	9,000	Nellis Tanks List
Nellis	500	450	Nellis Tanks List
Creech (660-3)	5,000	4,600	CDRL I003
Creech (660-4)	10,000	9,200	CDRL I003
NTTR (Tonopah Test Range)	10,000	9,000	NTTR
NTTR (Tonopah Test Range)	10,000	9,000	NTTR
NTTR (Tonopah Test Range)	10,000	9,000	NTTR
Total Max Tank Capacity (gal)	107,500	97,050	
Total Max Daily Amount (lbs/day)	663,447		
Total Ave Daily Amount (lbs/day)	598,954		

Assumptions:

Nellis tanks have an average capacity of 90%
 Creech Throughput 621,028 gallons
 NTTR Throughput 221,680 gallons
 Nellis throughput 58,009,637 gallons

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Unleaded Gasoline - USTs

Specific Gravity: 0.74

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	15,000	13,500	Nellis Tanks List
Nellis	10,000	9,000	Nellis Tanks List
Nellis	25,000	22,500	Nellis Tanks List
NTTR (Tolicha Peak)	8,908	3,750	NTTR
Total Max Tank Capacity (gal)	58,908	48,750	
Total Max Daily Amount (lbs/day)	363,557		
Total Ave Daily Amount (lbs/day)	300,866		

Assumptions:

Nellis tanks have an average capacity of 90%

The NTTR (Tolicha Peak) tank capacity is 10,000 gallons but the provided information states that maximum storage capacity is 8,908 gallons and average storage is 3,750 gal.

NTTR Throughput 90,893 gallons

Nellis throughput 58,009,637 gallons (total AST and UST)

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	250	225	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	5,000	4,500	Nellis Tank List
Nellis	10,000	9,000	Nellis Tank List
Nellis	4,000	3,600	Nellis Tank List
Nellis	2,000	1,800	Nellis Tank List
Nellis	800	720	Nellis Tank List
Nellis	300	270	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	5,000	4,500	Nellis Tank List
Nellis	110	99	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	2,500	2,250	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	110	99	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	308	277	Nellis Tank List
Nellis	850	765	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	5,000	4,500	Nellis Tank List
Nellis	2,000	1,800	Nellis Tank List

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	420	378	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	145	131	Nellis Tank List
Nellis	79	71	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	145	131	Nellis Tank List
Nellis	104	94	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	20,000	18,000	Nellis Tank List
Nellis	3,000	2,700	Nellis Tank List
Nellis	79	71	Nellis Tank List
Nellis	110	99	Nellis Tank List
Nellis	300	270	Nellis Tank List
Nellis	300	270	Nellis Tank List
Nellis	500	450	Nellis Tank List

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	250	225	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	79	71	Nellis Tank List
Nellis	193	174	Nellis Tank List
Nellis	308	277	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	79	71	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	2,000	1,800	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	150	135	Nellis Tank List
Nellis	150	135	Nellis Tank List
Nellis	79	71	Nellis Tank List
Nellis	200	180	Nellis Tank List
Nellis	660	594	Nellis Tank List
Nellis	5,000	4,500	Nellis Tank List
Nellis	100	90	Nellis Tank List
Nellis	104	94	Nellis Tank List
Nellis	10,000	9,000	Nellis Tank List
Nellis	6,000	5,400	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	1,000	900	Nellis Tank List

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	300	270	Nellis Tank List
Nellis	500	450	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	250	225	Nellis Tank List
Nellis	8,000	7,200	Nellis Tank List
Nellis	305	275	Nellis Tank List
Nellis	2,000	1,800	Nellis Tank List
Nellis	415	374	Nellis Tank List
Nellis	1,000	900	Nellis Tank List
Creech	2,000	1,800	Nellis Tank List
Creech	1,700	1,530	Nellis Tank List
Creech	145	131	Nellis Tank List
Creech	127	114	Nellis Tank List
Creech	750	675	Nellis Tank List
Creech	500	450	Nellis Tank List
Creech	170	153	Nellis Tank List
Creech	366	329	Nellis Tank List
Creech	1,000	900	Nellis Tank List
Creech	2,000	1,800	Nellis Tank List
Creech	4,000	3,600	Nellis Tank List
Creech	60	54	Nellis Tank List
Creech	150	135	Nellis Tank List
Creech	150	135	Nellis Tank List

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Creech	150	135	Nellis Tank List
Creech	559	503	Nellis Tank List
Creech	8,000	7,200	Nellis Tank List
Creech	1,808	1,627	Nellis Tank List
Creech	5,000	4,500	Nellis Tank List
Creech	1,700	1,530	Nellis Tank List
Creech	2,100	1,890	Nellis Tank List
Creech	15,000	13,500	Nellis Tank List
Creech	2,070	1,863	Nellis Tank List
Creech	500	450	Nellis Tank List
Creech	195	176	Nellis Tank List
Creech	308	277	Nellis Tank List
Creech	500	450	Nellis Tank List
Creech	127	114	Nellis Tank List
Creech	1,000	900	Nellis Tank List
Creech (660-1)	5,000	4,600	CDRL I003/Tank List
Creech (660-2)	5,000	4,600	CDRL I003/Tank List

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel - ASTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
NTTR (Tonopah)	129,306	86,273	NTTR
NTTR (Tonopah)	129,306	86,272	NTTR
NTTR (Tonopah)	10,000	6,228	NTTR
NTTR (Tonopah)	10,000	6,228	NTTR
Total Max Tank Capacity (gal)	458,529	347,126	
Total Max Daily Amount (lbs/day)	3,334,643		
Total Ave Daily Amount (lbs/day)	2,524,469		

Assumptions:

NTTR (Tonopah) tanks have a capacity of 129,306 gal or 10,000 gal, but the high level alarms are set at 124,688 gal and 9,000 gal (max storage). The average storage provided is 185,000 gal

NTTR and Creech 660-1 and 660-2 average capacities provided by Nellis AFB

Nellis and Creech tanks have an average capacity of 90%

Creech Throughput 121,448 gallons

NTTR Throughput 561,910 gallons

Nellis throughput 58,009,637 gallons (total)

RY 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Diesel-USTs

Specific Gravity: 0.872

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Average Tank Capacity (gal)	Comments
Nellis	25,000	25,000	Nellis Tanks List
Nellis	15,000	15,000	Nellis Tanks List
Nellis	15,000	15,000	Nellis Tanks List
NTTR (Tolicha Peak)	13,076	7,250	Nellis Tanks List
Total Max Tank Capacity (gal)	68,076	62,250	
Total Max Daily Amount (lbs/day)	495,081		
Total Ave Daily Amount (lbs/day)	452,712		

Assumptions:

Nellis tanks have an average capacity of 90%

The NTTR (Tolicha Peak) tank has a capacity of 15,000 gallons. However, the POC states the maximum capacity stored is 13,076 gallons and the average capacity stored is 7,250 gallons.

Creech Throughput 621,028 gallons

NTTR Throughput 98,476 gallons

Nellis throughput 58,009,637 gallons (total)

Ry 2015 Tier II Data

Nellis Air Force Base, Creech Air Force Base, Nevada Test and Training Range

Conversion factor: 8.34 lbs/gallon of water

Material: Ultra Low Sulfur Diesel

Specific Gravity: 0.8

Tank Avg Daily Capacity: 90%

Installation	Max Tank Capacity (gal)	Comments
Nellis	20,000	Nellis Tank List

Total Max Tank Capacity (gal) 20,000

Total Max Daily Amount (lbs/day) 133,440

Total Ave Daily Amount (lbs/day) 120,096

APPENDIX E – MUNITIONS CONSTITUENTS: DOD STANDARDS, TABLES OF SAMPLING RESULTS AND MAPS OF SAMPLING EVENTS

List of Sampling Results, Maps of Sampling Results, and DOD Standards

(EA Engineering, Science, and Technology, Inc. 2015)

Operational Range Assessment Screening Value Tables

Table 1 - Human Drinking Water Values

MC	CAS #	Screening Value	
		Value (µg/L)	Source
Antimony	7440-36-0	6	EPA RSL Table ^a
Arsenic	7440-38-2	0.045	EPA RSL Table ^a
Barium	7440-39-3	2000	EPA RSL Table ^a
Cadmium	7440-43-9	5	EPA RSL Table ^a
Chromium ¹	7440-47-3	100	EPA RSL Table ^a
Copper	7440-50-8	620	EPA RSL Table ^a
Lead	7439-92-1	15	Region 6 ^b
Manganese	7439-96-5	320	EPA RSL Table ^a
Mercury ²	7487-94-7	0.63	EPA RSL Table ^a
Molybdenum	7439-98-7	78	EPA RSL Table ^a
Nickel	7440-02-0	300	EPA RSL Table ^a
Silver	7440-22-4	71	EPA RSL Table ^a
Vanadium	7440-62-2	78	EPA RSL Table ^a
Zinc	7440-66-6	4700	EPA RSL Table ^a
HMX	2691-41-0	780	EPA RSL Table ^a
RDX	121-82-4	0.61	EPA RSL Table ^a
TNT	118-96-7	2.2	EPA RSL Table ^a
1,3,5-TNB	99-35-4	460	EPA RSL Table ^a
1,3-DNB	99-65-0	1.5	EPA RSL Table ^a
tetryl	479-45-8	63	EPA RSL Table ^a
NB	98-95-3	0.12	EPA RSL Table ^a
2A-4,6-DNT	35572-78-2	30	EPA RSL Table ^a
4A-2,6-DNT	1946-51-0	30	EPA RSL Table ^a
DNT-mixture 2,4/2,6	25321-14-6	0.092	EPA RSL Table ^a
2,6-DNT	606-20-2	15	EPA RSL Table ^a
2,4-DNT	121-14-2	0.20	EPA RSL Table ^a
2-NT (o-)	88-72-2	0.27	EPA RSL Table ^a
3-NT (m-)	99-08-1	1.3	Region 6 ^b
4-NT (p-)	99-99-0	3.7	EPA RSL Table ^a
Nitroglycerin	55-63-0	1.5	EPA RSL Table ^a
PETN	78-11-5	16	
Perchlorate	14797-73-0	15	DoD ^c

Notes:

These values are "default" values. Local standards may be more stringent and take precedence.

NA – Not Available (Screening levels were not developed due to the lack of scientific data on the specific constituents.

1 - Screening value is for Total Chromium

2 - Screening value is for Elemental Mercury

Sources:

a - EPA Regional Screening Levels (RSL) table – From "Regional Screening Levels for Chemical Contaminants at Superfund Sites" which is an update for Region 3 RBCs, Region 6 MSSSLs, and Region 9 PRGs. From: <http://epa-prgs.ornl.gov/chemicals/index.shtml> (23 June 2008)

b - Region 6 – Region 6 MSSSL Values

c - DoD – The Department of Defense has established a screening value for perchlorate of 24 ppb.

Table 2 – Ecological Freshwater Surface Water System Values

MC	CAS #	Freshwater Surface Water		Freshwater Sediment	
		Value (µg/L)	Source	Value (mg/kg)	Source
Antimony	7440-36-0	30	EPA Region 3 ^a	12	EPA Region 4 ^d
Arsenic	7440-38-2	150	EPA NRWQC ^{2,b}	8.2	EPA OSWER ^{*c}
Barium	7440-39-3	3.9	EPA OSWER ^c	20	EPA Region 6 ^f
Cadmium	7440-43-9	0.25	EPA NRWQC ^{2,3,b}	1.2	EPA OSWER ^c
Chromium (VI)	7440-47-3	11	EPA NRWQC ^{2,b}	81	EPA OSWER ^c
Copper	7440-50-8	9	EPA NRWQC ^{2,3,b}	34	EPA OSWER ^c
Lead	7439-92-1	2.5	EPA NRWQC ^{2,3,b}	47	EPA OSWER ^c
Manganese	7439-96-5	80	EPA OSWER ^c	460	Ontario Guidelines ^l
Mercury	22967-92-6	0.77	EPA NRWQC ^{2,b}	0.15	EPA OSWER ^c
Molybdenum	7439-98-7	240	EPA OSWER ^c	4	D.D.MacDonald et al., 1994 ^g
Nickel	7440-02-0	52	EPA NRWQC ^{2,3,b}	21	EPA OSWER ^c
Silver	7440-22-4	3.2	EPA NRWQC ^{2,3,b}	2	EPA Region 4 ^d
Vanadium	7440-62-2	19	EPA OSWER ^c	50	NOAA Screening Tables ^h
Zinc	7440-66-6	120	EPA NRWQC ^{2,3,b}	150	EPA OSWER ^c
HMX	2691-41-0	150	EPA Region 3 ^a	.0047-.47	EPA Region 4 ^{1,d}
RDX	121-82-4	190	EPA Region 4 ^d	.013-1.3	EPA Region 4 ^{1,d}
TNT	118-96-7	90	EPA Region 4 ^d	.092-9.2	EPA Region 4 ^{1,d}
1,3,5-TNB	99-35-4	11	EPA Region 4 ^d	.0024-.24	EPA Region 4 ^{1,d}
1,3-DNB	99-65-0	20	EPA Region 4 ^d	.0067-.67	EPA Region 4 ^{1,d}
tetryl	479-45-8	NA		53.4	Nipper et al., 2002 ⁱ (fine grain sediment)
NB	98-95-3	270	EPA Region 4 ^d	0.488	EPA Region 4 ^d
2A-4,6-DNT	35572-78-2	20	EPA Region 4 ^d	NA	
4A-2,6-DNT	1946-51-0	NA		NA	
2,6-DNT	606-20-2	42	EPA Region 4 ^d	0.0206	EPA Region 4 ^d
2,4-DNT	121-14-2	44	EPA Region 3 ^a	0.0751	EPA Region 4 ^d
2-NT (o-)	88-72-2	NA		NA	
3-NT (m-)	99-08-1	750	EPA Region 3 ^a	NA	
4-NT (p-)	99-99-0	1900	EPA Region 3 ^a	NA	
Nitroglycerin	55-63-0	138	EPA Region 3 ^a	NA	
PETN	78-11-5	85000	EPA Region 3 ^{4,a}	NA	
Perchlorate	14797-73-0	9300	Dean et al. ^e	NA	

Notes:

NA – Not Available (Screening levels were not developed due to the lack of scientific data on the specific constituents.
* - Arsenic values for sediment will be compared to background sampling data, if available. The range will not be considered a source of MC migration when the sampling results are less than or equivalent to background concentrations.

1 - These values are dependent on the sediment TOC. The lower bound is for 1% TOC. Upper bound is for 100% TOC. To determine the site specific value, multiply the % TOC by the lower bound. E.g. for TNT in sediment w/ 5% TOC it would be: 0.46 (5*0.092=0.46)

2 - Value applies to dissolved metals

3 - The value is dependent on the hardness of the water, provided value is for a water hardness of 100 mg/L as CaCO3.

4 – For PETN, EPA Region III values came from TNRCC 2001 & 2000, which are documented sources k & l below.

Sources:

a - EPA Region 3, Ecological Risk Assessment Freshwater Screening Benchmarks, March 2007

b - EPA, Office of Water, Office of Science and Technology (4304T), National Recommended Water Quality Criteria, 2006.

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- c - EPA Office of Solid Waste and Emergency Response Ecotox Thresholds, January 1996
- d - EPA Region 4, Ecological Risk Assessment Bulletins – Supplement to RAGS (EPA 2001)
- e - Dean, K.E., R.M. Palachek, J.L. Noel, R. Warbritton, J. Aufderheide, and J. Wireman. 2004. Development of Freshwater Water-Quality Criteria for Perchlorate. *Environmental Toxicology and Chemistry* 23(6):1441-1451.
- f - EPA Region 6, Screening Level Ecological Risk Assessment Protocol, Aug 1999.
- g – A Review of Environmental Quality Criteria and Guidelines for Priority substances in the Fraser River Basin, Prepared by D.D. MacDonald, MacDonald Environmental Sciences Limited, March 1994
- h - NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages. Buchman, M.F., 1999.
- i - Guidelines for the protection and management of aquatic sediment quality in Ontario. Ontario Ministry of the Environment. Queen's Printer of Ontario. Persaud, D., R. Jaagumagi, and A. Hayton. 1993.
- j - Nipper, M., R.S. Carr, J.M. Biedenbach, R.L. Hooten, and K. Miller. 2002. Toxicological and Chemical Assessment of Ordnance Compounds in Marine Sediments and Porewaters. *Marine Pollution Bulletin*, 44: 789-806.
- k - TNRCC 2001 Guidance for Conducting Ecological Risk Assessment and Remediation Sites in Texas, Toxicology and Risk Assessment Section, December.
- l - TNRCC 2000 Texas Surface water Quality Standards, Texas Administrative Code, Title 30, Chapter 307, Effective 17, 2000.

Table 3 – Ecological Marine Surface Water System Values

MC	CAS #	Marine Surface Water		Marine Sediment	
		Value (µg/L)	Source	Value (mg/kg)	Source
Antimony	7440-36-0	30	Suter and Tsao, 1996 ^e	2	NOAA 1990 ^g
Arsenic	7440-38-2	36	USEPA, 2004 ^b	7.24	MacDonald et al., 2000 ^{*,h}
Barium	7440-39-3	4	Suter and Tsao, 1996 ^e	NA	
Cadmium	7440-43-9	8.8	USEPA, 2004 ^b	0.68	MacDonald et al., 2000 ^h
Chromium (VI)	7440-47-3	50	USEPA, 2004 ^b	52.3	MacDonald et al., 2000 ^h
Copper	7440-50-8	3.1	USEPA, 2004 ^b	18.7	MacDonald et al., 2000 ^h
Lead	7439-92-1	8.1	USEPA, 2004 ^b	30.2	MacDonald et al., 2000 ^h
Manganese	7439-96-5	120	Suter and Tsao, 1996 ^e	460	Ontario Guidelines ^l
Mercury	22967-92-6	0.94	USEPA, 2004 ^b	0.14	
Molybdenum	7439-98-7	370	Suter and Tsao, 1996 ^e	NA	
Nickel	7440-02-0	8.2	USEPA, 2004 ^b	15.9	MacDonald et al., 2000 ^h
Silver	7440-22-4	1.9	USEPA, 2004 ^b	0.73	MacDonald et al., 2000 ^h
Vanadium	7440-62-2	20	Suter and Tsao, 1996 ^e	NA	
Zinc	7440-66-6	81	USEPA, 2004 ^b	124	MacDonald et al., 2000 ^h
HMX	2691-41-0	330	Talmage et al., 1999 ^o	.0047-.47	EPA Region 4 ^{1,a}
RDX	121-82-4	5000	Nipper et al., 2001 ^k	.013-1.3	EPA Region 4 ^{1,a}
TNT	118-96-7	180	Nipper et al., 2001 ^k	.092-9.2	EPA Region 4 ^{1,a}
1,3,5-TNB	99-35-4	25	Nipper et al., 2001 ^k	.0024-.24	EPA Region 4 ^{1,a}
1,3-DNB	99-65-0	180	Nipper et al., 2001 ^k	.0067-.67	EPA Region 4 ^{1,a}
tetryl	479-45-8			53.4	Nipper et al., 2002 ^l (fine grain sediment)
NB	98-95-3	66.8	USEPA, 2002 ^c	27	Talmage and Opresko, 1995 ^j
2A-4,6-DNT	35572-78-2	1480	TNRCC, 2001 ^m and TNRCC, 2000 ⁿ	NA	
4A-2,6-DNT	1946-51-0	NA	NA	NA	
2,6-DNT	606-20-2	1000	Nipper et al., 2001 ^k	0.55	Nipper et al., 2002 ^l
2,4-DNT	121-14-2	480	Nipper et al., 2001 ^k	0.23	Talmage and Opresko, 1995 ^j
2-NT (o-)	88-72-2	NA	NA	NA	
3-NT (m-)	99-08-1	NA	NA	NA	
4-NT (p-)	99-99-0	NA	NA	NA	
Nitroglycerin	55-63-0	138	TNRCC, 2001 ^m and TNRCC, 2000 ⁿ	NA	
PETN	78-11-5	85000	EPA Region 3 ^{2,d}	NA	
Perchlorate	14797-73-0	9300	Dean et al., 2004 ^f	NA	

Notes:

Operational Range Assessment Screening Values

Version 6.0

Updated 21 May 2012

NA – Not Available (Screening levels were not developed due to the lack of scientific data on the specific constituents.

* - Arsenic values for sediment will be compared to background sampling data, if available. The range will not be considered a source of MC migration when the sampling results are less than or equivalent to background concentrations.

1 - These values are dependent on the sediment TOC. The lower bound is for 1% TOC. Upper bound is for 100% TOC. To determine the site specific value, multiply the % TOC by the lower bound. (e.g. for TNT in sediment w/ 5% TOC it would be: $0.46)(5 \times 0.092 = 0.46)$)

2 - EPA Region III for PETN marine water refers to US EPA Region 3's Freshwater Screening Benchmark table for a value. These values came from TNRCC 2001 & 2000, which are documented sources m & n below.

Sources:

a - EPA Region 4, Ecological Risk Assessment Bulletins - Supplement to RAGS (EPA 2001)

b - EPA - USEPA 2004 National Recommended Water Quality Criteria Office of Water and Office of Science and Technology.

c - EPA - USEPA 2002 Ecological Risk Assessment Bulletin 2/11/2002. Waste Management Division, Freshwater Surface Screening Values for Hazardous Waste Sites, February.

d - EPA Region 3, Ecological Risk Assessment Freshwater Screening Benchmarks, March 2007

e - Suter and Tsao, 1996 Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 196 Revision. ES/ER/Tm-96/R2.

f - Dean, K.E., R.M. Palachek, J.L. Noel, R. Warbritton, J. Aufderheide, and J. Wireman. 2004. Development of Freshwater Water-Quality Criteria for Perchlorate. *Environmental Toxicology and Chemistry* 23(6):1441-1451.

g - The potential for biological effects of sediment-sorbed contaminants tested in the national status and trends program. NOAA Technical Memorandum NOS OMA 52. Long, E.R. and L.G. Morgan. 1990.

h - MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater ecosystems. *Archives of Environmental Contamination and Toxicology*, 39: 20-31.

i - Guidelines for the protection and management of aquatic sediment quality in Ontario. Ontario Ministry of the Environment. Queen's Printer of Ontario. Persaud, D., R. Jaagumagi, and A. Hayton. 1993.

j - Talmage, S.S., and D.M. Opresko. 1995. Draft Ecological Criteria Documents for Explosives, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

k - Nipper, M., R.S. Carr, J.M. Biedenbach, R.L. Hooten, K. Miller, and S. Saepoff, 2001. Development of Marine Toxicity Data for Ordnance Compounds, *Archives of Environmental Contamination and Toxicology*, 41:308-31.

l - Nipper, M., R.S. Carr, J.M. Biedenbach, R.L. Hooten, and K. Miller. 2002. Toxicological and Chemical Assessment of Ordnance Compounds in Marine Sediments and Porewaters. *Marine Pollution Bulletin*, 44: 789-806.

m - TNRCC 2001 Guidance for Conducting Ecological Risk Assessment and Remediation Sites in Texas, Toxicology and Risk Assessment Section, December.

n - TNRCC 2000 Texas Surface water Quality Standards, Texas Administrative Code, Title 30, Chapter 307, Effective 17, 2000.

o - Talmage, S.S., D.M. Opresko, C.J. Maxwell, J.E. Welsh, M. Cretelia, P.H. Reno, and F.B. Daniel. 1999. Nitroaromatic munition compounds: Environmental effects and screening values. *Reviews in Environmental Contamination and Toxicology*, 161: 1-156.

**Table 5-3
NTTR Soil Analytical Results**

			Location ID:	SO-01	SO-01	SO-01	SO-02	SO-02	SO-02	SO-02
			Sample Name:	NTTR-SO-01-1	NTTR-SO-01-2	NTTR-SO-01-3	NTTR-SO-02-1	NTTR-SO-02-2	NTTR-SO-DUP1	NTTR-SO-02-3
			Date Sampled:	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014	6/26/2014
			Depth Interval:	0-1	0-1	0-1	0-2	0-2	0-2	0-2
Analyte	Screening Levels		Unit	Result	Result	Result	Result	Result	Result	Result
	Residential Soil ¹	Industrial Soil ¹								
Lead (SW6020A)										
Lead	400	800	mg/kg	15.4 J-	11.5 J-	10.4 J-	7.82 J-	12.3 J-	9.92 J-	11.3 J-
Explosives (SW8330B & 8330)										
1,3,5-Trinitrobenzene	2,200,000	32,000,000	ug/kg	< 9 U	< 8.9 U	< 9 U	< 8.9 U	< 9 U	< 9 U	< 8.9 U
1,3-Dinitrobenzene	6,200	82,000	ug/kg	< 19 U	< 19 U	< 19 U	< 19 U	< 19 U	< 19 U	< 19 U
2,4,6-trinitrotoluene	21,000	96,000	ug/kg	33 J	24 J	22 J	< 8.3 U	< 8.4 U	< 8.4 U	< 8.3 U
2,4-diamino-6-nitrotoluene	--	--	ug/kg	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
2,4-dinitrotoluene	1,700	7,400	ug/kg	< 15 U	24 J	< 15 U	< 15 U	27 J	< 15 UJ	< 15 U
2,6-diamino-4-nitrotoluene	--	--	ug/kg	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
2,6-dinitrotoluene	360	1,500	ug/kg	< 24 U	< 24 U	< 24 U	< 24 U	< 24 U	< 24 U	< 24 U
2-amino-4,6-dinitrotoluene	150,000	2,300,000	ug/kg	11 J	14 J	16 J	9.9 J	< 10 UJ	10 J	< 9.9 U
2-nitrotoluene	3,200	15,000	ug/kg	< 18 U	< 18 U	< 18 U	< 18 U	< 18 U	< 18 U	< 18 U
3-nitrotoluene	6,200	82,000	ug/kg	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U
4-amino-2,6-dinitrotoluene	150,000	2,300,000	ug/kg	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U
4-Nitrotoluene	33,000	140,000	ug/kg	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U	< 30 U
HMX	3,800,000	57,000,000	ug/kg	58 J	130	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Nitrobenzene	5,100	22,000	ug/kg	< 8 U	< 7.9 U	< 8 U	< 7.9 U	< 8 U	< 8 U	< 7.9 U
Nitroglycerin	6,200	82,000	ug/kg	< 440 U	< 430 U	< 440 U	< 430 U	< 430 U	< 440 U	< 430 U
Nitroguanidine	6,200	82,000	mg/kg	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.019 U	< 0.02 U	< 0.02 U
Pentaerythritol tetranitrate	120,000	580,000	ug/kg	< 1600 U	< 1600 U	< 1600 U	< 1600 U	< 1600 U	< 1600 U	< 1600 U
RDX	6,000	28,000	ug/kg	38 J	22 J	18 J	< 12 U	< 12 U	< 12 U	< 12 U
Tetryl	120,000	1,600,000	ug/kg	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U
Nitrocellulose (E353.2)										
Nitrocellulose	180,000,000	2,500,000,000	mg/kg	< 0.78 UB	< 0.78 UB	< 0.78 UB	< 0.83 UB	< 0.85 UB	< 0.8 UB	< 0.81 UB
White Phosphorus (E7580)										
White Phosphorus	1,600	23,000	ug/kg	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Percent Solid (SM2540G)										
Solid	--	--	%	100	100	99	94	96	96	96

Notes:

Screening Levels:

¹-Screening Levels are US EPA RSLs May 2014

²- Operational Range Assessment Screening Values May 2012

MDL- Method Detection Limit

U - Not Detected

B - Blank Contamination

J- - Estimated Value; biased low

* The J- qualifier for lead is due to low recovery in the MSD.

* The J qualifier for 2,4,6-trinitrotoluene, 2,4-dinitrotoluene, 2-amino-4,6-dinitrotoluene, HMX is due to the RPD being greater than 40% between the primary and confirmation columns

* The J qualifier for 2,4-dinitrotoluene and 2-amino-4,6-dinitrotoluene in samples NTTR-SO-02-2 and NTTR-SO-DUP1 is due the analyte being detected in one sample but not the other.

* The J qualifier for RDX is due the high recovery of the MS sample.



Air Force Operational Range Assessment Nellis AFB, Nevada

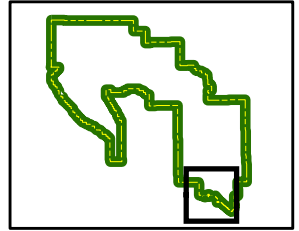
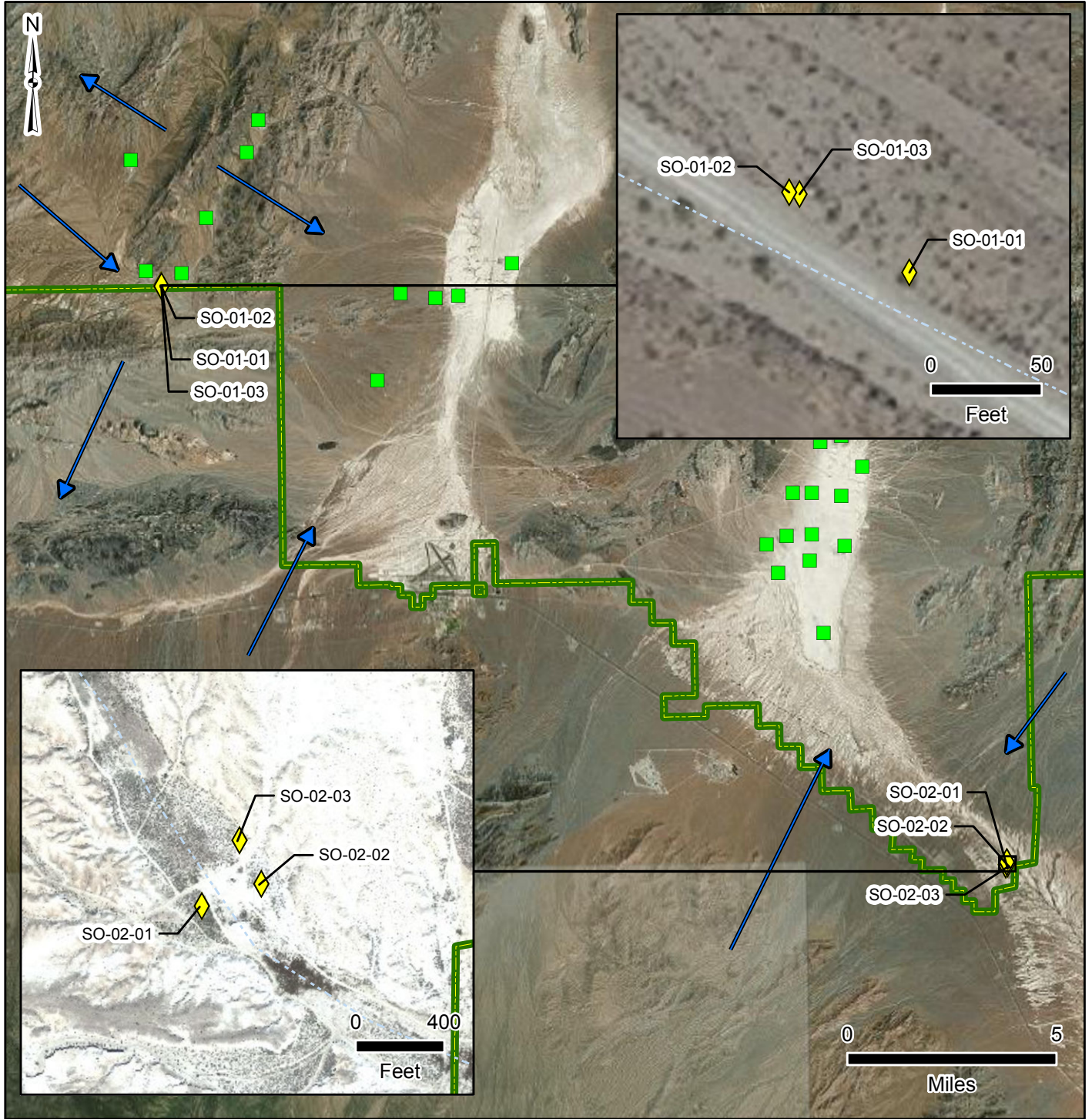


Figure 5-3 Nellis AFB Soil Sample Locations



Installation Data

- Installation Boundary
- Soil Sample Locations
- Targets

Surface Water Flow

Data Sources:
ARID-GEO, 2005
ESRI 2012

Date:.....May 2015
Prepared By:.....EA
Prepared For:..USACE and AFCEC

**Table 5-4
NTTR Groundwater Analytical Results**

					Location ID:	GW-01	GW-02	GW-02	GW-03	GW-04
					Sample Name:	NTTR-GW-01	NTTR-GW-02	NTTR-GW-DUP1	NTTR-GW-03	NTTR-GW-04
					Date Sampled:	6/25/2014	6/25/2014	6/25/2014	6/26/2014	6/26/2014
Analyte	Screening Levels		LOD	MDL	Unit					
	RSL Tapwater	Human Drinking Water								
Lead (SW6020A)										
Lead (dissolved)	15	15	0.50	0.075	ug/l	1.7	< 0.5 UB	< 0.5 UB	1.4	1.7
Lead (total)	15	15	0.50	0.075	ug/l	5.9	0.38 J	0.48 J	3.29	3.34
Explosives (SW8330B & SW8330)										
1,3,5-Trinitrobenzene	590	460	0.06	0.025	ug/l	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
1,3-Dinitrobenzene	2	1.50	0.06	0.032	ug/l	< 0.032 U	< 0.032 U	< 0.032 U	< 0.032 U	< 0.032 U
2,4,6-trinitrotoluene	2.5	2.20	0.06	0.029	ug/l	< 0.029 U	< 0.029 U	< 0.029 U	< 0.029 U	< 0.029 U
2,4-diamino-6-nitrotoluene	--	--	0.06	0.044	ug/l	< 0.044 U	< 0.044 U	< 0.044 U	< 0.044 U	< 0.044 U
2,4-dinitrotoluene	0.24	0.20	0.06	0.026	ug/l	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U	0.045 J
2,6-diamino-4-nitrotoluene		--	0.06	0.044	ug/l	< 0.044 U	< 0.044 U	< 0.044 U	< 0.044 U	< 0.044 U
2,6-dinitrotoluene	0.048	15	0.06	0.042	ug/l	< 0.042 U	< 0.042 U	< 0.042 U	< 0.042 U	0.077 J
2-amino-4,6-dinitrotoluene	39	30	0.06	0.016	ug/l	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U
2-nitrotoluene	0.31	0.27	0.06	0.038	ug/l	< 0.038 U	< 0.038 U	< 0.038 U	< 0.038 U	< 0.038 U
3-nitrotoluene	1.7	1.30	0.06	0.053	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
4-amino-2,6-dinitrotoluene	39	30	0.06	0.017	ug/l	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
4-Nitrotoluene	4.2	3.70	0.06	0.053	ug/l	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U	< 0.053 U
HMX	1,000	780	0.06	0.023	ug/l	< 0.023 U	< 0.023 U	< 0.023 U	< 0.023 U	< 0.023 U
Nitrobenzene	0.14	0.12	0.06	0.05	ug/l	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Nitroglycerin	2	1.50	3.6	1.3	ug/l	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Nitroguanidine	2,000	--	6.0	2.4	ug/l	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U
Pentaerythritol tetranitrate	19	16	3.6	2.1	ug/l	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
RDX	0.7	0.61	0.06	0.026	ug/l	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U
Tetryl	39	63	0.06	0.026	ug/l	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U
Nitrocellulose (E353.2)										
Nitrocellulose	60,000	--	1.0	0.48	mg/l	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.48 U
Perchlorate (SW6860)										
Perchlorate	14	15	0.50	0.082	ug/l	0.57	1.6	1.6	0.16 J	0.16 J
White Phosphorus (E7580)										
White Phosphorus	0.4	--	0.050	0.015	ug/l	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

Notes:

Screening Levels :

RSL Tapwater - US EPA Regional Screening Levels, May 2014

Human Drinking Water - Operational Range Assessment Screening Values May 2012

MDL - Method Detection Limit

LOD - Limit of Detecton

Gray Shaded Values exceed the RSL Tapwater Screening Level

U - Not Detected

B - Blank Contamination

J - Estimated Value

* Lead and Perchlorate values that are J qualified are between the LOD and MDL

* 2,6-dinitrotoluene is J qualified in sample GW-03 and GW-04, due to manual intergration



Air Force Operational Range Assessment
Nellis AFB, Nevada

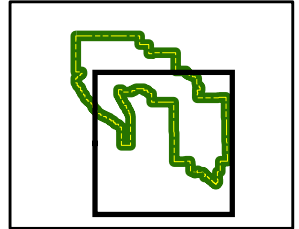
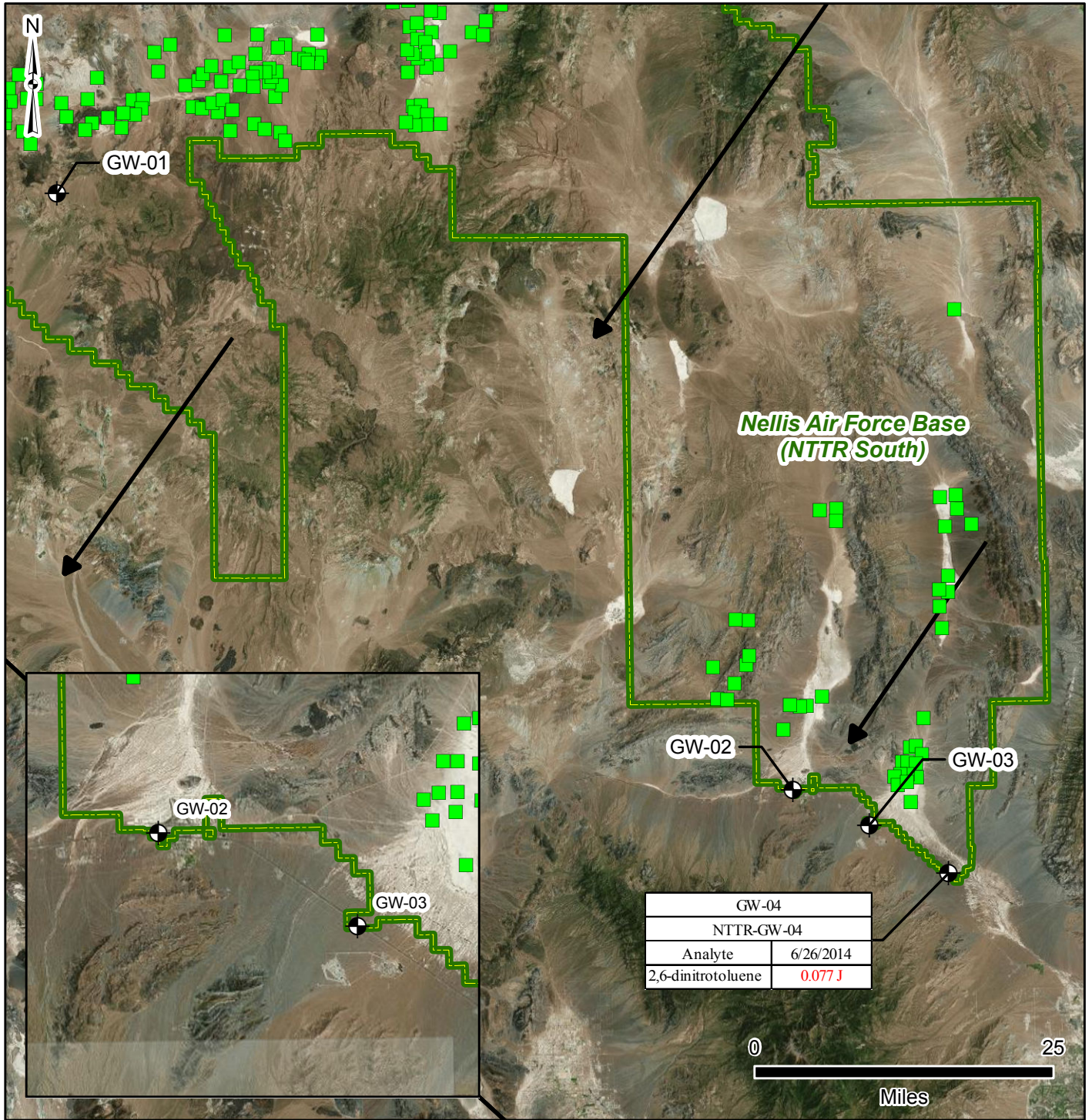


Figure 5-4
Nellis AFB Groundwater Sample Locations



GW-04	
NTR-GW-04	
Analyte	6/26/2014
2,6-dinitrotoluene	0.077 J

- Installation Data**
- Installation Boundary
 - State Boundary
 - Monitoring Well Locations
 - Targets
 - Regional Groundwater Flow

Data Sources:
ARID-GEO, 2005
ESRI 2012

Note: Red text indicates value that is above RSL tapwater screening value

Date:.....May 2015
Prepared By:.....EA
Prepared For:..USACE and AFCEC

APPENDIX F – NDEP CONFIRMED RELEASE CLOSED CASES

List of Confirmed Release Closed Cases Reported to NDEP (1900-2016)

(NDEP 2016)

Site	County	Facility Name	Facility Address	Report Date	Closure Date	Closure Type	Program	Officer	File Location	Media	Contaminant
8-000877	Clark	Nellis Air Force Base	AF Auxiliary Field Indian Springs 89018	04/27/01	04/27/01	Clean w/ Remed	non-LUST	spiper	NDEP: Las Vegas	Soil	Diesel
8-000877	Clark	Nellis Air Force Base	AF Auxiliary Field Indian Springs 89018	01/01/89	05/30/89	-	non-LUST	abiaggi	NDEP: LV-Storage	Soil	Diesel
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	02/24/09	08/03/09	Clean w/ Remed	non-LUST	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- Military helicopter: hard landing at Overton, >1000 gallons to tarmac and soil
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	08/11/09	02/10/10	Invest Closed	non-LUST	spiper	NDEP: Las Vegas	Soil	----- Jettisoned Tanks from F-15
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	03/18/05	07/06/05	NAC 445A A-K	-	spiper	NDEP: Las Vegas	-	Jet Fuel/Av Gas ----- F-16 landed short of runway. 165 gallons released. Soil impacted.
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	06/16/99	08/11/99	NAC 445A A-K	-	arushana	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- fighter crash, Tonopah Test Range (pilots okay)
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	08/13/08	10/28/09	NAC 445A A-K	-	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- Jettisoned tanks
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	03/25/05	06/20/05	NAC 445A A-K	-	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- F-15 crash BLM land; 50 miles northeast of Nellis AFB
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	06/23/06	12/18/09	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- Creech AFB unmaned vehicle crash
H-000020	Clark	Nellis Air Force Base	60 miles east of Tonopah	10/24/09	12/18/09	NAC 445A A-K	-	spiper	NDEP: LV-Storage	Soil	Jet Fuel/Av Gas ----- two jettisoned tanks for F-18
H-000225	Clark	Nevada Test and Training Range 63B , A-10 Crash Site	Wildlife Range Rural	11/19/03	02/09/04	NAC 445A A-K	Mobile Source	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas
H-000272	Clark	United States Air Force	Dry Lake Range Rural	11/09/04	02/28/05	NAC 445A A-K	Mobile Source	jjates	NDEP: LV-Storage	Soil	Jet Fuel/Av Gas
H-000413	Clark	Nellis Air Force Base	#71 Indian Springs	-	06/09/95	-	-	cchd	-	-	-
H-000414	Clark	Nellis Air Force Base	Building #650 Indian Springs	-	04/02/95	-	-	cchd	-	-	-
H-000415	Clark	Nellis Air Force Base	#2275 Indian Springs	-	10/08/93	-	-	cchd	-	-	-
H-000416	Clark	Nellis Air Force Base	#85 Indian Springs	-	08/20/93	-	-	cchd	-	-	-
H-000417	Clark	Nellis Air Force Base	#104, Site Indian Springs 89191	-	10/08/93	-	-	cchd	-	-	-
H-000418	Clark	Nellis Air Force Base	Fire Training Facility Indian Springs	-	08/20/93	-	-	cchd	-	-	-
H-000428	Clark	Nellis Air Force Base	#635A Indian Springs	-	01/22/93	-	-	cchd	-	-	-
H-000428	Clark	Nellis Air Force Base	#635A Indian Springs	-	01/12/93	-	-	cchd	-	-	-
H-000433	Clark	Nellis Air Force Base	#31, Site Indian Springs	-	08/07/95	-	-	cchd	-	-	-
H-000466	Clark	Nellis Air Force Base	Building #229 Indian Springs	-	10/04/95	-	-	cchd	-	-	-
H-000467	Clark	Nellis Air Force Base	Building #650 Indian Springs	-	04/02/95	-	-	cchd	-	-	-

Blue: Aircraft Mishaps
 Orange: Heating oil
 White: Lubricating oil
 Green: TPH, including diesel and aviation fuel
 Pink: Motor oil
 Purple: Unknown release

Site	County	Facility Name	Facility Address	Report Date	Closure Date	Closure Type	Program	Officer	File Location	Media	Contaminant
H-000797	Clark	Nellis Air Force Base	Mile Range Building Indian Springs	10/15/93	08/13/96	UST Clean Closure	-	dnarala	NDEP: Las Vegas	Soil	TPH ----- and/or diesel
H-000799	Clark	Nellis Air Force Base	- Tolicha Peak	07/24/02	08/02/02	NAC 445A A-K	Mobile Source	spiper	-	-	-
H-000882	Clark	Creech Air Force Base , Range 62B - generator	U.S. Highway 95 Indian Springs 89018	05/12/14	08/14/14	Clean w/ Remed	non-LUST	rheppe	NDEP: Las Vegas	Soil	Diesel ----- Generator fuel line hit by shrapnel and released approximately 50 gallons of diesel fuel
H-000882	Clark	Creech Air Force Base , Transformer near Facility 221 - 2nd and D Streets	U.S. Highway 95 Indian Springs 89018	06/10/14	08/14/14	Clean w/ Remed	non-LUST	rheppe	NDEP: LV-Storage	Soil	Other ----- Non-PCB transformer observed to be leaking. Estimated 5 gallons of mineral oil released to the soil Removed ~5 tons of impacted soil. Analytical results indicate TPH less than 100 mg/kg in 2 soil samples.
H-001000	Clark	Indian Springs Air Force Base	Box Canyon	07/25/95	03/11/96	-	-	dnarala	NDEP: Las Vegas	Soil	- ----- JP-4
H-001114	Clark	Nellis Air Force Base	Facility #0653 Indian Springs	12/24/96	03/10/98	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	- ----- Petroleum Hydrocarbon
H-001144	Clark	Nellis Air Force Base	Bombing Range Indian Springs	04/30/97	03/08/07	Clean w/ Remed	non-LUST	spiper	NDEP: Las Vegas	Soil	Diesel ----- Diesel, Gasoline historic release over time. Spill report: 550 ppm in soil, <25 cubic yards
H-001155	Clark	Nellis Air Force Base	U.S. Highway 95 Indian Springs	09/30/96	12/31/96	-	-	bpohlman	NDEP: Las Vegas	Ground Water	Other ----- JP-8 Jet Fuel
H-001155	Clark	Nellis Air Force Base , Petroleum, Oil, Lubricant Recycling Center	U.S. Highway 95 Indian Springs	06/07/10	07/28/10	Clean w/ Remed	non-LUST	spiper	NDEP: LV-Storage	Soil	Motor Oil
H-001155	Clark	Nellis Air Force Base	U.S. Highway 95 Indian Springs	11/29/11	02/06/12	-	non-LUST	spiper	NDEP: Las Vegas	Soil	Diesel ----- release from generator
H-001157	Clark	Nellis Air Force Base , Point Bravo Heating oil tank	Facility #2214; #2285 Indian Springs	05/25/01	06/05/01	NAC 459 A-K	non-LUST	spiper	NDEP: Las Vegas	Soil	Heating Oil
H-001157	Clark	Nellis Air Force Base	Facility #2214; #2285 Indian Springs	08/30/93	08/13/96	UST Clean Closure	-	dnarala	NDEP: Las Vegas	Soil	Diesel
H-001236	Clark	Nellis Air Force Base	Facility #0653 Indian Springs	09/30/96	03/10/98	NAC 445A A-K	-	arushana	NDEP: Las Vegas	Soil	- ----- Jet Fuel from pipeline
7-000008	Nye	Stone Cabin Microwave Relay Facility	29 miles east of Tonopah Rural 89049	01/01/90	05/05/93	UST Clean Closure	-	lwoods	NDEP: CC-Storage	No Impact/Clean Close	-
7-000086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	11/26/03	05/20/04	UST Clean Closure	LUST	spiper	NDEP: CC-Storage	Soil	Heating Oil

Blue: Aircraft Mishaps
 Orange: Heating oil
 White: Lubricating oil
 Green: TPH, including diesel and aviation fuel
 Pink: Motor oil
 Purple: Unknown release

Site	County	Facility Name	Facility Address	Report Date	Closure Date	Closure Type	Program	Officer	File Location	Media	Contaminant
7-00086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	01/01/90	04/24/97	UST Clean Closure	-	jcarr	NDEP: CC-Storage	-	----- NOTE: TTR Tank #254
7-00086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	01/01/90	04/24/97	UST Clean Closure	-	jcarr	NDEP: CC-Storage	-	----- NOTE: TTR Tank #168
7-00086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	01/01/90	08/02/94	-	-	kadeduro	NDEP: CC-Storage	Soil	-
7-00086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	01/11/90	04/24/97	UST Clean Closure	-	jcarr	NDEP: CC-Storage	-	----- NOTE: TTR Tank #8021
7-00086	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah 89041	01/01/90	04/24/97	UST Clean Closure	-	jcarr	NDEP: CC-Storage	-	----- NOTE: TTR Tank #519
7-000160	Nye	Nellis Air Force Base	Tonopah Electronic Combat Range Tolicha Peak	09/21/00	03/27/01	UST Clean Closure	-	bpohlman	NDEP: Las Vegas	Soil	Diesel
7-000160	Nye	Nellis Air Force Base	Tonopah Electronic Combat Range Tolicha Peak	06/06/02	06/14/00	UST Clean Closure	LUST	arushana	NDEP: Carson City	Soil	Diesel
7-000161	Nye	Tonopah Electronic Combat Range	O&M Compound Tonopah 89049	-	10/08/98	Clean w/ Remed	-	arushana	NDEP: Las Vegas	Soil	Other ----- Gasoline, Diesel
7-000767	Nye	Nellis Air Force Base	Tonopah Air Station Tonopah	11/21/97	01/28/98	NAC 459 A-K	-	arushana	NDEP: Las Vegas	Soil	Other ----- Lubricating Oil for Emergency Generators
G-000020	Nye	Aircraft Crash Mobile Source	Nevada Test and Training Range Tonopah	05/18/04	10/07/04	NAC 445A A-K	non-LUST	bstory	NDEP: CC-Storage	Soil	Jet Fuel/Av Gas
G-000021	Nye	Diamond Tank Lines & Transportation, Inc.	Test Range Exit near U.S. Highway 6 Tonopah	04/22/04	08/12/04	Clean w/ Remed	Mobile Source	bstory	NDEP: CC-Storage	Soil	Jet Fuel/Av Gas
G-000060	Nye	Nellis Air Force Base , Fire Training Pits	Tonopah Test Range Tonopah	01/11/90	08/04/92	-	-	jnajima	NDEP: CC-Storage	Soil	-
G-000800	Nye	Nellis Air Force Base	Tonopah Test Range, B-136 Tonopah	10/15/93	07/18/08	-	non-LUST	spiper	NDEP: Las Vegas	Soil	TPH ----- + Heating Oil
G-000801	Nye	Nellis Air Force Base	Tonopah Test Range, Area 10 Tonopah	06/05/01	06/05/01	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Diesel
G-000801	Nye	Nellis Air Force Base	Tonopah Test Range, Area 10 Tonopah	10/15/93	01/24/94	-	-	fvillanu	NDEP: Las Vegas	Soil	TPH ----- JP-4
G-000819	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	01/15/09	07/27/09	NAC 445A A-K	-	spiper	NDEP: Las Vegas	Soil	TPH
G-000819	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	01/24/94	07/18/08	-	-	spiper	NDEP: Las Vegas	Soil	TPH

Blue: Aircraft Mishaps
 Orange: Heating oil
 White: Lubricating oil
 Green: TPH, including diesel and aviation fuel
 Pink: Motor oil
 Purple: Unknown release

Site	County	Facility Name	Facility Address	Report Date	Closure Date	Closure Type	Program	Officer	File Location	Media	Contaminant
G-000819	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	12/03/09	05/21/10	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Diesel ----- 150 gallons to soil, employee left end cap off host to AST
G-000819	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	08/04/09	08/11/10	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Diesel ----- 741 gallons of diesel to asphalt and soil
G-000898	Nye	United States Air Force	Tonopah Test Range, Gold Mountain	11/05/94	12/13/94	-	-	jvillanu	NDEP: Las Vegas	Soil	TPH
G-000951	Nye	Nellis Air Force Base	Building #136 Tonopah	04/29/95	07/18/08	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Diesel
G-000952	Nye	Nellis Air Force Base	Coronet Clean Yard Tonopah	01/24/94	11/30/04	-	-	spiper	NDEP: Las Vegas	Soil	TPH ----- and/or diesel
G-000952	Nye	Nellis Air Force Base	Coronet Clean Yard Tonopah	09/17/04	11/30/04	Clean w/ Remed	Mobile Source	bstory	NDEP: CC-Storage	Soil & Ground Water	Diesel
G-000954	Nye	Nellis Air Force Base	Tonopah Test Range, Area 10 Tonopah	09/09/93	04/30/97	-	-	bpohlman	NDEP: Las Vegas	Soil	- ----- JP-4
G-001154	Nye	Nellis Air Force Base	Tonopah Test Range, B-293 Tonopah	02/14/96	05/07/99	NAC 459 A-K	-	arushana	NDEP: Las Vegas	Soil	Other ----- Diesel from UST, Jet Fuel from pipeline
G-001234	Nye	Nellis Air Force Base	Tonopah Test Range, Range 75 Tonopah	05/21/96	10/28/97	Clean w/ Remed	-	arushana	NDEP: Las Vegas	Soil	Diesel ----- battle tank destroyed by mistake
G-001234	Nye	Nellis Air Force Base	Tonopah Test Range, Range 75 Tonopah	08/25/03	11/24/03	NAC 445A A-K	-	spiper	NDEP: Las Vegas	Soil	Diesel ----- Diesel fuel from M-60 tank hit by missile
G-001235	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	04/27/01	05/21/01	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Heating Oil
G-001235	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	02/14/96	05/07/99	NAC 459 A-K	-	arushana	NDEP: Las Vegas	Soil	Other ----- SEE G-001154
G-001235	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	12/05/06	01/11/07	NAC 445A A-K	-	spiper	NDEP: Las Vegas	Soil	Motor Oil ----- 300 gallons of waste oil from storage tank
G-001235	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	04/28/08	07/07/08	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Diesel
G-001235	Nye	Nellis Air Force Base	Tonopah Test Range Tonopah	05/03/06	06/26/06	Clean w/ Remed	-	spiper	NDEP: Las Vegas	Soil	Jet Fuel/Av Gas ----- overflow of containment area

Blue: Aircraft Mishaps
 Orange: Heating oil
 White: Lubricating oil
 Green: TPH, including diesel and aviation fuel
 Pink: Motor oil
 Purple: Unknown release

APPENDIX G – DOE LEGACY SITES ON NTTR

DOE Legacy Sites Summary and Detailed Characterization

(SBCC 2016)

ID Site	Other IDs	Status Date	Clean Closed	Closed in Place	Closed and Monitored	Uncharacterized Closure or No Further Action	Undergoing characterization, investigation, remediation, or final closure in process	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 102	Western Pahute Mesa	02/28/16					x		
CAU 400	TA-55-001-TAB2	01/17/97	x						x
CAU 400	TA-19-001-05PT	01/17/97	x						x
CAU 401	03-02-003-0357	12/18/95	x						x
CAU 402	03-02-001-0353	12/18/95	x						x
CAU 403	03-02-004-0360	01/08/99		x					x
CAU 404	TA-03-001-TARC	05/18/99			x			x	x
CAU 404	TA-21-001-TARC	05/18/99		x					x
CAU 405	03-05-002-SW07	05/14/02	x						x
CAU 405	03-05-002-SW03	05/14/02	x						x
CAU 405	03-05-002-SW04	05/14/02	x						x
CAU 406	03-51-002-0374	04/20/00	x						x
CAU 406	03-51-003-0358	04/20/00	x						x
CAU 407	TA-23-001-TARC	02/22/02			x			x	x
CAU 408	TA-55-002-TAB2	09/20/10	x						x
CAU 409	RG-24-001-RGCR	07/10/01	x						x
CAU 409	TA-53-001-TAB2	07/10/01	x						x
CAU 409	TA-53-002-TAB2	07/10/01	x						x
CAU 410	TA-21-002-TAAL	01/05/04	x						x
CAU 410	TA-21-003-TANL	01/05/04	x						x
CAU 410	TA-19-002-TAB2	01/05/04	x						x
CAU 410	03-19-001	01/05/04	x						x
CAU 410	09-21-001-TA09	01/05/04	x						x
CAU 411	NAFR-23-01 Double Tracks	09/30/16					x		
CAU 412	TA-23-01CS Clean Slate I	09/30/16					x		
CAU 413	TA-23-02CS Clean Slate II	09/30/16					x		
CAU 414	TA-23-03CS Clean Slate III	09/30/16					x		
CAU 415	NAFR-23-02 Project 57 No. 1	10/31/16					x		
CAU 423	03-02-002-0308	10/20/99			x				x
CAU 424	03-08-002-A304	08/24/99			x			x	x
CAU 424	03-08-001-A301	08/24/99			x			x	x
CAU 424	03-08-002-A307	08/24/99			x				x
CAU 424	03-08-002-A306	08/24/99			x			x	x

ID Site	Other IDs	Status Date	Clean Closed	Closed in Place	Closed and Monitored	Uncharacterized Closure or No Further Action	Undergoing characterization, investigation, remediation, or final closure in process	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 424	03-08-002-A305	08/24/99			x			x	x
CAU 424	03-08-002-A303	08/24/99			x			x	x
CAU 424	03-08-002-A302	08/24/99			x			x	x
CAU 424	03-08-002-A308	08/24/99			x			x	x
CAU 425	09-08-001-TA09	04/01/03	x						x
CAU 426	RG-08-001-RGCS	05/13/99			x			x	x
CAU 427	03-05-002-SW02	08/27/99			x				x
CAU 427	03-05-002-SW06	08/27/99			x				x
CAU 428	03-05-002-SW05	06/29/01	x						x
CAU 428	03-05-002-SW01	06/29/01	x						x
CAU 429	03-51-001-0355	04/20/00		x					x
CAU 429	09-51-001-0952	04/20/00	x						x
CAU 430	TA-55-003-0960	03/11/97	x						x
CAU 453	09-55-001-0952	09/10/99			x			x	x
CAU 461	TA-52-003-0960	10/20/99	x						x
CAU 461	TA-52-002-TAML	10/20/99	x						x
CAU 461	TTR-001	10/20/99	x						x
CAU 484	TA-54-001-TANL	10/05/07			x				x
CAU 484	RG-52-007-TAML	10/05/07			x				x
CAU 484	TA-52-004-TAAL	10/05/07			x				x
CAU 484	TA-52-005-TAAL	10/05/07			x				x
CAU 484	TA-52-006-TAPL	10/05/07			x				x
CAU 484	TA-52-001-TANL	10/05/07			x				x
CAU 485	TA-39-001-TAGR	09/30/98	x						x
CAU 486	71-23-001-71DT	01/18/01	x						x
CAU 487	RG-26-001-RGRV	12/17/01			x			x	x
CAU 489	RG-55-001-RGMN	06/23/06	x						x
CAU 489	RG-55-002-RGHS	06/23/06	x						x
CAU 489	RG-55-003-RG36	06/23/06	x						x
CAU 490	03-56-001-03BA	02/23/01	x						x
CAU 490	03-58-001-03FN	02/23/01	x						x
CAU 490	09-54-001-09L2	02/23/01	x						x
CAU 490	RG-56-001-RGBA	02/23/01	x						x
CAU 495	TA-55-007-09SE	04/06/99	x						x
CAU 495	TA-55-006-09SE	04/06/99	x						x
CAU 496	TA-55-008-TAAL	05/31/07	x						x
CAU 499	RG-25-001-RD24	07/22/02	x						x
CAU 5000	09-21-001-09MG	06/30/04				x			x

ID Site	Other IDs	Status Date	Clean Closed	Closed in Place	Closed and Monitored	Uncharacterized Closure or No Further Action	Undergoing characterization, investigation, remediation, or final closure in process	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 541	05-45-03 Small Boy Frenchman Flat	10/05/16					x		
CAU 575	15-64-01	09/30/16					x		
CAU 575	15-19-02	09/30/16					x		
NRG-7A	Yucca Mountain	--				x			N/A
Total	75	--	39	3	22	2	9	12	65

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 102	20-45-03 Western Pahute Mesa	DOE	Radiation	Schooner radiation plume	In characterization phase	02/28/16	75W, 75E		1043	Annual Reports of Continuing Decontamination, USAF, Decon Estimate		
CAU 400	TA-55-001-TAB2	DOE	Ordnance	Bomblet Pit and Five Points Landfill (TTR)	Clean closed	01/17/97	4809A	2000	--	Post-Closure IR CY07 June 08, Decon Estimate		x
	TA-19-001-TAB2	DOE	Ordnance	Bomblet Pit and Five Points Landfill (TTR)	Clean closed	01/17/97	ECW	75000	1.75	Post-Closure IR CY07 June 08, Decon Estimate		x
CAU 401	03-02-003-0357	DOE	O&M	Area 3 Gas Station Underground Storage Tank Site (TTR)	Clean closed	12/18/95	4809A	--	--	Decon Estimate		x
CAU 402	03-02-001-0353	DOE	O&M	Area 3 Building 0353 Underground Storage Tank Site, Diesel (TTR)	Clean closed	12/18/95	4809A	--	--	Decon Estimate		x
CAU 403	03-02-004-0360	DOE	O&M	Two USTs and piping removed in late 1980s. DOE identified 1,200 cu yds of TPH-impacted soils (1996). Soils left in place. Environment favors natural degradation. Fence and signs on perimeter.	Closed in place	01/08/99	4809A	3600	--	Decon Estimate		x
CAU 404	TA-03-001-TARC	DOE	O&M	Sewage lagoon. Roller Coaster Lagoons and Trench. Two unlined lagoons and one disposal trench received solid, liquid, and ordnance waste from Sandia (1963). Pesticide concentrations above NDEP limits in lagoons. Soil removed and vegetative cap installed.	Closed, monitored	05/18/99	4809A	18000	0.5	CAU 404 Closure Plan July 97, Decon Estimate	x	x
	TA-21-001-TARC	DOE	O&M	Waste Disposal Trench (North). Roller Coaster Lagoons and Trench. Two unlined lagoons and one disposal trench received solid, liquid, and ordnance waste from Sandia (1963). Pesticide concentrations above NDEP limits in lagoons. Soil removed and vegetative cap installed.	Closed, monitored	05/18/99	4809A	1200	--	CAU 404 Closure Plan July 97, Decon Estimate		x
CAU 405	03-05-002-SW07	DOE	O&M	Leachfield, Area 3 Septic Systems (TTR)	Clean closed	05/14/02	4809A	1375	--	CAU 405 Closure Report Apr 02, Decon Estimate		x
	03-05-002-SW03	DOE	O&M	Leachfield, Area 3 Septic Systems (TTR)	Clean closed	05/14/02	4809A	3600	--	CAU 405 Closure Report Apr 02, Decon Estimate		x
	03-05-002-SW04	DOE	O&M	Leachfield, Area 3 Septic Systems (TTR)	Clean closed	05/14/02	4809A	320	--	CAU 405 Closure Report Apr 02, Decon Estimate		x

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 406	03-51-002-0374	DOE	O&M	Heavy Duty Shop Underground Discharge Point, Sumps. Building 0374.	Clean closed	04/20/00	4809A	--	--	CAU 406 and 429 Investigation Plan May 99, Decon Estimate		x
	03-51-003-0358	DOE	O&M	Area 3 UPS Building 03-58 Underground Discharge Point (TTR)	Clean closed	04/20/00	4809A	--	--	CAU 406 and 429 Investigation Plan May 99, Decon Estimate		x
CAU 407	TA-23-001-TARC	DOE	Radiation	Roller Coaster RadSafe Area (TTR)	Closed, monitored	02/22/02	4809A	3000	--	CAU 407 Closure Report Dec 01, Decon Estimate	x	x
CAU 408	TA-55-002-TAB2	DOE	Ordnance	Bomblet Target Area (TTR)	Clean closed	09/20/10	ECW	--	12160	CAU 408 Closure Report Sept 10, Decon Estimate		x
CAU 409	RG-24-001-RGCR	DOE	O&M	Battery Dump Site	Clean closed	07/10/01	4809A	--	--	CAU 409 Closure Report June 01, Decon Estimate		x
	TA-53-001-TAB2	DOE	O&M	Septic Sludge Disposal Pit	Clean closed	07/10/01	4809A	1000	--	CAU 409 Closure Report June 01, Decon Estimate		x
	TA-53-002-TAB2	DOE	O&M	Septic Sludge Disposal Pit	Clean closed	07/10/01	4809A	1000	--	CAU 409 Closure Report June 01, Decon Estimate		x
CAU 410	TA-21-002-TAAL	DOE	O&M	Disposal Trench	Clean closed	01/05/04	ECW	607904	14	CAU 410 Closure Report Dec 03, Decon Estimate		x
	TA-21-003-TANL	DOE	O&M	Disposal Trench	Clean closed	01/05/04	4809A	100		CAU 410 Closure Report Dec 03, Decon Estimate		x
	TA-19-002-TAB2	DOE	O&M	Debris Mound	Clean closed	01/05/04	4809A	150	--	CAU 410 Closure Report Dec 03, Decon Estimate		x
	03-19-001	DOE	O&M	Waste Disposal Site	Clean closed	01/05/04	4809A	2400	--	CAU 410 Closure Report Dec 03, Decon Estimate		x
	09-21-001-TA09	DOE	O&M	Disposal Trenches	Clean closed	01/05/04	4809A	17100	0.5	CAU 410 Closure Report Dec 03, Decon Estimate		x
CAU 411	NAFR-23-01 Doubletracks	DOE	Radiation	Double Tracks Plutonium Dispersion (Nellis)	Final closure is in process	09/30/16	71N		44	FFACO Quarterly Report: July 1, 2016 - September 30, 2016		
CAU 412	TA-23-01CS Clean Slate I	DOE	Radiation	Clean Slate I Plutonium Dispersion (TTR)	Final closure is in process	09/30/16	ECW		44	FFACO Quarterly Report: July 1, 2016 - September 30, 2016		
CAU 413	TA-23-02CS Clean Slate II	DOE	Radiation	Clean Slate II Plutonium Dispersion (TTR)	In investigation stage	09/30/16	ECW		116	FFACO Quarterly Report: July 1, 2016 - September 30, 2016		
CAU 414	TA-23-03CS Clean Slate III	DOE	Radiation	Clean Slate III Plutonium Dispersion (TTR)	In investigation stage	09/30/16	4809A		424	FFACO Quarterly Report: July 1, 2016 - September 30, 2016		

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 415	NAFR-23-02 Project 57 No. 1	DOE	Radiation	Project 57 No. 1 Plutonium Dispersion (NTTR)	Planning corrective actions	10/31/16	4808A		N/A	Nevada Field Office Environmental Management Activities Monthly Report		
CAU 423	03-02-002-0308	DOE	O&M	The UDP received waste oil products from Auto Maintenance Shop, Building 0360. Investigation identified no COCs except a TPH plume. Existing conditions are favorable to natural biological degradation. signs on perimeter.	Closed in place	10/20/99	4809A	700	--	CAU 423 Decision Document June 98, Decon Estimate		x
CAU 424	03-08-002-A304	DOE	O&M	8 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness.	Closed, monitored	08/24/99	4809A	47167	1.1	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-001-A301	DOE	O&M	9 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	1260	--	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-002-A307	DOE	O&M	10 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	3960	--	CAU 424 Corrective Action Plan 97, Decon Estimate		x
	03-08-002-A306	DOE	O&M	11 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	3750	--	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-002-A305	DOE	O&M	12 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	2500	--	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-002-A303	DOE	O&M	13 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	5000	--	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-002-A302	DOE	O&M	14 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	7950	0.25	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x
	03-08-002-A308	DOE	O&M	15 landfill cells in Area 3 contain varying levels of debris and COCs(except Cell A3-7 which contains no hazardous constituents or debris and is not depicted in GIS). Landfills are covered by soil of varying thickness. Signs on perimeter.	Closed, monitored	08/24/99	4809A	16400	0.4	CAU 424 Corrective Action Plan 97, Decon Estimate	x	x

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 425	09-08-001-TA09	DOE	O&M	Area 9 Main Lake Construction Debris Disposal Area (TTR)	Clean closed	04/01/03	4809A	31400	0.8	CAU 425 Closure Report Feb 03, Decon Estimate		x
CAU 426	RG-08-001-RGCS	DOE	O&M	Cactus Spring Waste Trenches (TTR)	Closed, monitored	05/13/99	4809A	45000	1	Post-Closure IR CY07 June 08, Decon Estimate	x	x
CAU 427	03-05-002-SW02	DOE	O&M	Investigation identified 3 leachfields and 8 septic tanks. TPH as waste oil is only contaminant above applicable regulatory limits. All liquid/sludges to be removed and tanks decommissioned. Signs on perimeter.	Closed, monitored	08/27/99	4809A	3000	--	Decon Estimate		x
	03-05-002-SW06	DOE	O&M	Investigation identified 3 leachfields and 8 septic tanks. TPH as waste oil is only contaminant above applicable regulatory limits. All liquid/sludges to be removed and tanks decommissioned. Signs on perimeter.	Closed, monitored	08/27/99	4809A	--	--	Post-Closure IR CY07 June 08, Decon Estimate		x
CAU 428	03-05-002-SW05	DOE	O&M	One leachfield and one septic tank. Area 3 Septic Waste Systems 1, 5 (TTR)	Clean closed	06/29/01	4809A	1000	--	CAU 428 Closure Report June 01, Decon Estimate		x
	03-05-002-SW01	DOE	O&M	Two leachfields and septic Tanks (7). Area 3 Septic Waste Systems 1, 5 (TTR)	Clean closed	06/29/01	4809A	3500	--	CAU 428 Closure Report June 01, Decon Estimate		x
CAU 429	03-51-001-0355	DOE	O&M	Area 3 Building 03-55 Photo Shop Underground Discharge Points (TTR)	Closed in place	04/20/00	4809A	--	--	CAU 406 and 429 Investigation Plan May 99, Decon Estimate		x
	09-51-001-0952	DOE	O&M	Area 9 Building 09-52 Mobile Photographic Lab Underground Discharge Points (TTR)	Clean closed	04/20/00	4809A	--	--	CAU 406 and 429 Investigation Plan May 99, Decon Estimate		x
CAU 430	TA-55-003-0960	DOE	Ordnance	Buried DU Artillery Round #1 (TTR)	Clean closed	03/11/97	4809A	707	--	CAU 430 Closure Report Feb 97, Decon Estimate		x
CAU 453	09-55-001-0952	DOE	Ordnance	Three individual landfill cells contain munitions related solid waste and potential UXOs. No contamination above preliminary action levels identified in soils below and around cells. Site qualifies for monitoring and capping waiver. See closure report. C	Closed, monitored	09/10/99	4809A	52500	1.25	Post-Closure IR CY07 June 08, Decon Estimate	x	x
CAU 461	TA-52-003-0960	DOE	Radiation	DU Artillery Round #2, DU Surface Debris	Clean closed	10/20/99	4809A	375		CAU 461 SAFER Closure Work Plan Aug 98, Decon Estimate		x
	TA-52-002-TAML	DOE	Radiation	DU Impact Site, DU Surface Debris	Clean closed	10/20/99	4809A	28800	0.7	CAU 461 SAFER Closure Work Plan Aug 98, Decon Estimate		x

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 461	TTR-001	DOE	Radiation	1987 W-79 JTA DU Surface Debris	Clean closed	10/20/99	4809A	87		CAU 461 SAFER Closure Work Plan Aug 98, Decon Estimate		x
CAU 484	TA-54-001-TANL	DOE	O&M	Containment Tank and Steel Structure, DU Surface Debris	Closed, monitored	10/05/07	4809A			CAU 484 SAFER Plan May 04, Decon Estimate		x
	RG-52-007-TAML	DOE	Radiation	Davis Gun Penetrator Test, DU Surface Debris	Closed, monitored	10/05/07	ECW	3525	--	CAU 484 SAFER Plan May 04, Decon Estimate		x
	TA-52-004-TAAL	DOE	Radiation	Metal Particle Dispersion Test, DU Surface Debris	Closed, monitored	10/05/07	4809A	6000000	138	CAU 484 SAFER Plan May 04, Decon Estimate		x
	TA-52-005-TAAL	DOE	Radiation	Joint Test Assembly DU Sites, DU Surface Debris	Closed, monitored	10/05/07	4809A	--	--	CAU 484 SAFER Plan May 04, Decon Estimate		x
	TA-52-006-TAPL	DOE	Radiation	DU Site, DU Surface Debris	Closed, monitored	10/05/07	4809A	--	--	CAU 484 SAFER Plan May 04, Decon Estimate		x
	TA-52-001-TANL	DOE	Radiation	NEDS Detonation Area. Surface Debris, Waste Sites, and Burn Area (TTR)	Closed, monitored	10/05/07	4809A	--	20	CAU 484 SAFER Plan May 04, Decon Estimate		x
CAU 485	TA-39-001-TAGR	DOE	Radiation	Cactus Spring Ranch Pu and DU Site (TTR)	Clean closed	09/30/98	4809A	--	--	CAU 485 Closure Report Sept 98, Decon Estimate		x
CAU 486	71-23-001-71DT	DOE	Radiation	Double Tracks RadSafe Area (TTR)	Clean closed	01/18/01	71N			Decon Estimate		x
CAU 487	RG-26-001-RGRV	DOE	O&M	Thunderwell waste dump. Sample data collected indicates bis(2-ethylhexyl)phthalate present in soils exceeds regulatory action levels at 1 location. Arsenic exceeded regulatory action levels thruout site. The CQDD/CR provides specific info necessary to recommend the no further act	Closed, monitored	12/17/01	4809A	1260000	29	CAU 487 Corrective Action Plan Jan 01, Decon Estimate	x	x
CAU 489	RG-55-001-RGMN	DOE	Ordnance	WWII UXO Sites (TTR), Mellan Airstrip	Clean closed	06/23/06	ECW	7850	--	CAU 489 SAFER Plan May 05, Decon Estimate		x
	RG-55-002-RGHS	DOE	Ordnance	WWII UXO Sites (TTR), H-Site Road	Clean closed	06/23/06	4809A	2123	--	CAU 489 SAFER Plan May 05, Decon Estimate		x
	RG-55-003-RG36	DOE	Ordnance	WWII UXO Sites (TTR), Gate 36E	Clean closed	06/23/06	ECW	1256	--	CAU 489 SAFER Plan May 05, Decon Estimate		x
CAU 490	03-56-001-03BA	DOE	O&M	Fire Training Area, Area 3 Burn Area (TTR)	Clean closed	02/23/01	4809A	3375	--	CAU 490 DD Feb 01, Decon Estimate		x
	03-58-001-03FN	DOE	O&M	Sandia Service Yard, Housekeeping Waste, Station 44 Burn Area (TTR)	Clean closed	02/23/01	4809A	5350	--	CAU 490 DD Feb 01, Decon Estimate		x
	09-54-001-09L2	DOE	O&M	Solid (Gun) Propellant Burn Site, Station 44 Burn Area (TTR)	Clean closed	02/23/01	4809A	--	--	CAU 490 DD Feb 01, Decon Estimate		x

CAU ID	CAS ID	Category	Secondary Category	Description	Status	Date	Location	Area (sq ft)	Area (acres)	Documentation	Reported Closed in Annual Report of Continuing Decontamination, February 2016	Closed under FFACO
CAU 490	RG-56-001-RGBA	DOE	O&M	Fire Training Area, Station 44 Burn Area (TTR)	Clean closed	02/23/01	4809A	--	--	CAU 490 DD Feb 01, Decon Estimate		x
CAU 495	TA-55-007-09SE	DOE	Ordnance	Buried Ordnance Site. Unconfirmed JTA Sites (TTR)	Clean closed	04/06/99	4809A	--	--	CAU 495 SAFER Closure Report Apr 99, Decon Estimate		x
	TA-55-006-09SE	DOE	Ordnance	Buried Ordnance Site. Unconfirmed JTA Sites (TTR)	Clean closed	04/06/99	4809A	--	--	CAU 495 SAFER Closure Report Apr 99, Decon Estimate		x
CAU 496	TA-55-008-TAAL	DOE	Ordnance	Buried Rocket Site - Antelope Lake (TTR)	Clean closed	05/31/07	4809A	--	--	CAU 496 Closure Letter Report May 07, Decon Estimate		x
CAU 499	RG-25-001-RD24	DOE	O&M	Radar 24 Diesel Spill Site. Oil/Fuel Spills	Clean closed	07/22/02	4809A	66	--	CAU 499 Closure Report July 02, Decon Estimate		x
CAU 5000	09-21-001-09MG	DOE	O&M	Waste Disposal Trench (Archived CAS)	No further action	06/30/04	4809A			Decon Estimate, FFACO Appendix IV		x
CAU 541	05-45-03 Small Boy Frenchman Flat	DOE	Radiation	Small Boy Plutonium Plume	Final closure is in process	10/05/16	65C		2837	Annual Report of Continuing Decontamination, Decon Estimate		
CAU 575	15-64-01	DOE	O&M	Decon Area, Area 15	Undergoing closure investigation	09/30/16	4808A	25	--	FFACO Quarterly Report: July 1, 2016 - September 30, 2016, CAU 575 SAFER Plan Dec 14, Decon Estimate		
	15-19-02	DOE	O&M	Waste Disposal Site, Area 15	Undergoing closure investigation	09/30/16	4808A	4801	--	FFACO Quarterly Report: July 1, 2016 - September 30, 2016, CAU 575 SAFER Plan Dec 14, Decon Estimate		
NRG-7A	Yucca Mountain	DOE	O&M	Release was from POL leaks that migrated through a degraded secondary containment barrier under an electrical generator. 84 cu yds soil removed and site remediated to below state-mandated thresholds.	Remediated	--	4808E			Decon Estimate		

Green: Clean Closed

Blue: Closed in Place

Yellow: Closed and Monitored

Pink: Uncharacterized Closure or No Further Action

Orange: Undergoing Characterization, Investigation, Remediation, or Final Closure in Process

APPENDIX H – SUMMARY OF STUDY ACTIVITIES AT NUCLEAR TEST SITES ON THE NTTR

Tabular Summary of Significant Study Activities at Nuclear Test Sites on the NTTR involving Radioactive Materials in Soil and/or Potentially Groundwater

(SBCC 2017)

Site	Activities	Year	Work Completed
CAU 411 Double Tracks	Initial Site Characterization	1994 - 1995	Ground-based radiological surveys, vertical soil profiling, soil sampling, soil treatability studies, geophysical surveys at ground zero
	Interim Corrective Action	1996	Soil and debris removal and offsite disposal, KIWI survey of excavated area
	Air Monitoring	1996 - 1999	Particulate size analysis, plutonium analyses, meteorological measurements
	Aerial Radiological Survey	2006	Aerial radiological survey of post-remediated site
	10 CFR 835 Compliance Survey	2010	Swipe sampling for removable contamination, <i>in situ</i> radiological measurements
	Preliminary Investigation	2012	Visual surveys, soil sampling, ground-based radiological surveys
CAU 412 Clean Slate I	Initial Site Characterization	1996	Ground-based radiological surveys, vertical soil profiling, soil sampling, soil treatability studies, geophysical surveys at ground zero
	Interim Corrective Action	1997	Soil and debris removal and offsite disposal, KIWI survey of excavated area
	Air Monitoring	1996 - 1998	Particulate size analysis, plutonium analyses, meteorological measurements
	Aerial Radiological Survey	2006	Aerial radiological survey of post-remediated site
	10 CFR 835 Compliance Survey	2010	Swipe sampling for removable contamination, <i>in situ</i> radiological measurements
	Preliminary Investigation	2012	Visual surveys, soil sampling, ground-based radiological surveys
CAU 413 Clean Slate II	Operation Roller Coaster	1963 1964	Pu distribution studies/mapping
	Environmental Surveillance Radiation Surveys	1964 1965 1966	Ground-based alpha radiation surveys
	Nevada Applied Ecology Group Studies	1975	FIDLER surveys, soil and vegetation sampling
	TTR Annual Sampling	1992	Soil sampling
	1996 Corrective Action Investigation	1996	Radiological surveys (KIWI, HPGe detector, FIDLER), soil sampling, depth profile sampling, treatability testing, geophysical surveys at ground zero
	Technology Demonstration Project	1998	Segmented gate system processing of contaminated surface soil
	Aerial Radiation Surveys	2006	Aerial radiation surveys
	Radiological Posting Compliance Survey	2010	Swipe sampling for removable contamination, <i>in situ</i> radiological measurements
	Preliminary Investigation	2012	Visual surveys, FIDLER surveys, removable contamination surveys
	Meteorological and Airborne Particulate Monitoring	2008 - 2012	Monitoring of airborne particulates, ambient gamma radiation, and meteorological conditions
CAU 414 Clean Slate III	Operation Roller Coaster	1963 1964	Pu distribution studies/mapping
	Environmental Surveillance Radiation Surveys	1964 - 1969	Ground-based alpha radiation surveys
	Nevada Applied Ecology Group Studies	1975	FIDLER surveys, soil and vegetation sampling, depth profile sampling
	Particle Size Studies	1963 1996	Pu associated with particle size
	TTR Annual Sampling	1993	Soil sampling
	1996 Corrective Action Investigation	1996 - 1997	Radiological surveys (KIWI, HPGe detector, FIDLER), soil sampling, depth profile sampling, treatability testing, geophysical surveys at ground zero
	Aerial Radiation Surveys	2006	Aerial radiation surveys
	Radiological Posting Compliance Survey	2010	Swipe sampling for removable contamination, <i>in situ</i> radiological measurements
	Preliminary Investigation	2012	Visual surveys, FIDLER surveys, removable contamination surveys
	Meteorological and Airborne Particulate Monitoring	2008 - 2012	Monitoring of airborne particulates, ambient gamma radiation, and meteorological conditions
CAU 415 Project 57	Debris Investigation	2016	FIDLER surveys, removable contamination surveys, visual surveys
	Operation Plumbbob Preliminary Report	1958	Details origin, objectives, and results to date for Project 57
	Surface Alpha Monitoring	1961	Detailed results of the surface alpha monitoring program (Program 74)
	Biomedical and Aerosol Studies	1961	Results of the animal studies program (Program 72); results of the air sampling program conducted in conjunction with the animal studies

Site	Activities	Year	Work Completed
CAU 415 Project 57	Particle Size Studies	1975	Pu associated with particle size
	Feasibility and Alternate Procedures for Decontamination and Post Treatment Management	1975	Comparative study to evaluate vegetative recovery and soil surface conditions seventeen years post-test
	Nevada Applied Ecology Group Studies	1976	FIDLER surveys, soil and vegetation sampling, depth profile sampling
	Environmental Surveillance Radiation Surveys	1977	Ground-based alpha radiation surveys
	Aerial Radiation Surveys	1979	Aerial Radiation Surveys
	Soil Removal Decontamination Estimate	1980	Estimate of the amount of soil removal necessary to achieve a remediation action level of 160 pico-Curies per gram of Pu
	Soil and Plant Studies	1982	Soil and plant studies on Pu little dispersion and bioavailability
	Soil Particle Size Study	2001	Soil samples to determine Pu and Am activities in relation to soil particle size
CAU 541 Small Boy	10 CFR 835 Compliance Survey	2007 - 2012	Ground-based radiation survey at fence perimeter
	Nevada Applied Ecology Group Study	1981 - 1986	<i>In situ</i> soil measurements by gamma spectroscopy and limited confirmatory soil sampling to estimate inventory of man-made radionuclides
	Aerial Radiation Survey	1995 1997 2010	Aerial Radiation Surveys
	Preliminary field investigation	2012	FIDLER, PRM-470, visual surveys, limited sampling event at and around ground zero
CAU 102 Schooner/ Western Pahute Mesa	Desert Research Institute Geochemical study	2013	Isotopic analysis of standing water on the Frenchman Flat playa
	Annual NNSA/NSO Environmental Monitoring	1989 - Present	Groundwater testing at monitoring wells
	Corrective action investigation	1999	Geophysical surveys, well drilling and completion, and sampling and analysis of both clean and contaminated wells; included geochemical modeling, geophysical and geologic modeling, and groundwater flow and transport modeling
	Groundwater radiochemistry	2001 2002 2004	Groundwater flow and radionuclide migration and inventory
	Groundwater chemistry analysis and interpretations	2002 2004 2006	Geochemical and isotopic data analysis and interpretation
Groundwater Transport Modeling	2009	Analysis to understand the behavior of radionuclide migration and to define, both qualitatively and quantitatively, the sensitivity of flow model conceptualization and flow and transport parameterization	

Definitions and acronyms:

KIWI – a radiation detector using sodium iodide

CFR – Code of Federal Regulations

FIDLER – field instrument for detection of low-energy radiation (gamma emissions)

HPGe – high-purity germanium

Pu – Plutonium

Am – Americium

PRM-470 – ground-based organic plastic scintillator instrument that detects gamma emission

APPENDIX I – IRP NFA DETERMINATIONS

List of IRP NFA determinations on the NTTR*

(USACE 2007)

*An ERP site is provided a designation that consists of a letter prefix followed by a specific number. The letter prefixes indicate the past usage of each site. See below (USAF 1997):

- OT - other, ordnance, burn areas
- DP - disposal pits
- LF – landfills
- SS - spills, storage areas
- ST - underground tanks, tanks, petroleum, oils, and lubricants
- FT - fire training areas
- WP - waste pits, sumps, lagoons, waste treatment, evaporation pits
- SD - surface runoffs, wash racks, ditches, oil/water separators

NTTK rRP Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
OT-01	OT-61-01	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	486	7/4/1995	NDEP NFA Determination letter for Open Trench OT-01
OT-02	OT-62-02	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	494	7/24/1995	NDEP NFA Determination letter for Open Trench OT-02
DP-03	OT-62-03	Range	Trash Pit: lumber, cans, trash	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	661	10/15/1996	NDEP NFA Determination letter for Disposal Pit DP-03
OT-04	OT-62-04 x-62-210 AOC 210	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	435	7/24/1995	NDEP NFA Determination letter for Open Trench OT-04
OT-05	OT-62-05	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	496	7/24/1995	NDEP NFA Determination letter for Open Trench OT-05
OT-06	OT-62-06	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	497	7/21/1995	NDEP NFA Determination letter for Open Trench OT-06
DP-07	DP-62-07	Range	Disposal pit: target debris	PA-DD 1992		NFA Signed	498	2/8/1994	NDEP NFA Determination letter for Disposal Pit DP-07
DP-08	DP-63-08	Range	Disposal pit: tanks, jeeps and target debris	PA-DD 1992		NFA Signed	499	7/21/1995	NDEP NFA Determination letter for Disposal Pit DP-08
OT-09	OT-63-09	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	500	7/24/1995	NDEP NFA Determination letter for Open Trench OT-09
OT-10	OT-63-10	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	501	7/21/1995	NDEP NFA Determination letter for Open Trench OT-10
OT-11	OT-63-11	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	502	7/24/1995	NDEP NFA Determination letter for Open Trench OT-11
DP/OT-12	DP/OT-63-13 AOC 639	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	653	12/18/1996	NDEP NFA Determination letter for Disposal Pit/Open Trench DP/OT-12
OT-13	OT-63-14	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	503	6/6/1994	NDEP NFA Determination letter for Open Trench OT-13
DP-14	DP-63-15	Range	Disposal pit: metal wood	PA-DD 1992		NFA Signed	504	7/21/1995	NDEP NFA Determination letter for Disposal Pit DP-14
OT-15	OT-63-16	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	505	7/24/1995	NDEP NFA Determination letter for Open Trench OT-15
OT-16	OT-63-17	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	654	12/18/1996	NDEP NFA Determination letter for Open Trench OT-16
OT-17	OT-63-18	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	506	7/24/1995	NDEP NFA Determination letter for Open Trench OT-17
OT-18	OT-63-19	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	507	7/24/1995	NDEP NFA Determination letter for Open Trench OT-18
DP/OT-19	DP/OT-63-20	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	508	7/24/1995	NDEP NFA Determination letter for Disposal Pit/Open Trench DP/OT-19
DP/OT-20	DP/OT-63-21	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	509	7/24/1995	NDEP NFA Determination letter for Disposal Pit/Open Trench DP/OT-20
DP-21	DP-63-22	Range	Disposal pits: trash	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	662	10/15/1996	NDEP NFA Determination letter for Burial Pit DP-21

NTTK HSP Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
OT-22	OT-63-23	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	510	7/24/1995	NDEP NFA Determination letter for Open Trench OT-22
DP-23	DP-63B-24	Range	Disposal pit: construction debris	PA-DD 1992		NFA Signed	511	2/8/1994	NDEP NFA Determination letter for Burial Pit DP-23
LF/DP-24	LF/DP-63A-26	Range	Landfill: ordnance residue, batteries, target debris	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	655	12/18/1996	NDEP NFA Determination letter for Landfill Disposal Pit LF/DP-24
OT-25	OT-64S-27 AOC 648	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	512	7/21/1995	NDEP NFA Determination letter for Open Trench OT-25
OT-26	OT-64S-28	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	513	7/21/1995	NDEP NFA Determination letter for Open Trench OT-26
OT-27	OT-64S-29	Range	Trash piles: vehicle parts, metal	PA-DD 1992		NFA Signed	514	7/21/1995	NDEP NFA Determination letter for Open Trench OT-27
OT-28	OT-64S-30	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	663	10/15/1996	NDEP NFA Determination letter for Open Trench OT-28
OT-29	OT-64S-31 Possibly AOC 642	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	515	7/24/1995	NDEP NFA Determination letter for Open Trench OT-29
DP-30	DP-64S-32	Range	Target Debris Pits: metal, wood	PA-DD 1992		NFA Signed	516	2/8/1994	NDEP NFA Determination letter for Burial Pit DP-30
ST-31	ST-65N-33	Range	UST's & leachfield: tires, misc. debris	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	656	12/18/1996	NDEP NFA Determination letter for Storage Tank ST-31
DP-32	DP-65N-34	Range	Disposal pit: target debris	PA-DD 1992		NFA Signed	517	6/6/1994	NDEP NFA Determination letter for Burial Pit DP-32
OT-33	OT-65S-35	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	664	10/15/1996	NDEP NFA Determination letter for Open Trench OT-33
OT-34	OT-65S-36	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	518	7/24/1995	NDEP NFA Determination letter for Burial Pit DP-34
DP-35	DP-65S-37	Range	Burn Pit, ammunition residue	PA-DD 1992	SI Completed	NFA Signed	665	10/15/1996	NDEP NFA Determination letter for Burial Pit DP-35
DP-36	DP-65S-38	Range	Disposal pit: tank parts, paint cans	PA-DD 1992		NFA Signed	519	6/6/1994	NDEP NFA Determination letter for Burial Pit DP-36
OT-37	OT-65S-39	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	520	7/24/1995	NDEP NFA Determination letter for Open Trench OT-37
OT/DP-38	OT/DP-65S-40	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	521 666	7/24/1995 10/15/1996	NDEP NFA Determination letter for Open Trench/Disposal Pit OT/DP-38
DP-39	DP-65S-41	Range	Disposal pit: scrap metal, vehicle parts, radiator	PA-DD 1992 DD 1996		NFA Signed	657	12/18/1996	NDEP NFA Determination letter for Disposal Pit DP-39
OT-40	OT-71-43	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	522	7/24/1995	NDEP NFA Determination letter for Open Trench OT-40
DP-41	DP-71-44	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	523	7/24/1995	NDEP NFA Determination letter for Disposal Pit DP-41
OT-42	OT-71-45	Range	EOD Pits: metal, munitions residue	PA-DD 1992 DD 1996		NFA Signed	671	7/21/1995	NDEP NFA Determination letter for Open Trench OT-42

NTTR and P Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
OT-43	OT-71-46	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	524 658	7/21/1995 12/18/0996	NDEP NFA Determination letter for Open Trench OT-43
OT-44	OT-76-47	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	525	7/21/1995	NDEP NFA Determination letter for Open Trench OT-44
OT-45	OT-76-49	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	526	7/21/1995	NDEP NFA Determination letter for Open Trench OT-45
OT-46	OT-76-51	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	527	7/24/1995	NDEP NFA Determination letter for Open Trench OT-46
OT-47	OT-76-52	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	528	7/24/1995	NDEP NFA Determination letter for Open Trench OT-47
OT-48	OT-76-53	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	529	7/24/1995	NDEP NFA Determination letter for Open Trench OT-48
OT-49	OT-76-54	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	659	12/18/1996	NDEP NFA Determination letter for Open Trench OT-49
OT-50	OT-76-55	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	530	7/24/1995	NDEP NFA Determination letter for Open Trench OT-50
OT-51	OT-76-56	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	531	7/21/1995	NDEP NFA Determination letter for Open Trench OT-51
OT-52	OT-IP-57	Range	Mine Shaft: metal, barrels, wood	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	667	10/15/1996	NDEP NFA Determination letter for Disposal Pit OT-52
DP-53	DP-IP-58	Range	Disposal pits: metal, batteries, cans, wood	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	668	10/15/1996	NDEP NFA Determination letter for Disposal Pit DP-53
ST-54	ST-IP-60	Range	FUEL station spill			No Action at This Time	544	8/4/1995	NDEP No Action at This Time Correspondence
OT-55	OT-75-61	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	532	7/21/1995	NDEP NFA Determination letter for Open Trench OT-55
OT-56	OT-75-62	Range	EOD Pits: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	669	10/15/1996	NDEP NFA Determination letter for Open Trench OT-56
OT-57	OT-75-63	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	533	7/24/1995	NDEP NFA Determination letter for Open Trench OT-57
DP-58	DP-ECE-65	Range	Coronet clean area: metal, wood	PA-DD 1992		NFA Signed	534	2/8/1994	NDEP NFA Determination letter for Disposal Pit DP-58
DP-59	DP-ECE-66	Range	Disposal pit: metal, munitions residue	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	660	12/18/1996	NDEP NFA Determination letter for Disposal Pit DP-59
OT-60	OT-ECW-69	Range	Disposal pit: mine debris, iron, wood, trash	PA-DD 1992		NFA Signed	535	7/21/1995	NDEP NFA Determination letter for Open Trench OT-60
OT-61	OT-ECW-70	Range	Disposal pit	PA-DD 1992		NFA Signed	536	2/8/1994	NDEP NFA Determination letter for Open Trench OT-61
OT-62	OT-74-71	Range	Mine shaft: munitions residue, inert bombs, metal wood, target debris	PA-DD 1992 SI 1995 DD 1995	SI Completed	NFA Signed	670	10/15/1996	NDEP NFA Determination letter for Disposal Trench OT-62
OT-63	OT-74-72	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	537	7/21/1995	NDEP NFA Determination letter for Open Trench OT-63

NTTR and P Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
DP-64	DP-74-73	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	538	2/8/1994	NDEP NFA Determination letter for Disposal Pit DP-64
DP-65	DP-74-74	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	539	2/8/1994	NDEP NFA Determination letter for Disposal Pit DP-65
DP-66	DP-74-76	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	540	7/24/1995	NDEP NFA Determination letter for Disposal Pit DP-66
OT/DP-67	OT/DP-74-77	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	541	7/24/1995	NDEP NFA Determination letter for Open Trench/Disposal Pit OT/DP-67
OT-68	OT-74-78	Range	EOD Pits: metal, munitions residue	PA-DD 1992		NFA Signed	542	7/21/1995	NDEP NFA Determination letter for Open Trench OT-68
OT-01	OT-TTR-79	TTR	Dump Area: stop fluids	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	583	1/16/1996	NDEP NFA Determination letter for Open Trench #1
WP-02	WP-TTR-80	TTR	Sewage Lagoon: sludge	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	584	1/16/1996	NDEP NFA Determination letter for Waste Pit #2
SD-03	SD-TTR-81	TTR	Wash Rack Drainage: oil, fuel	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	585	1/16/1996	NDEP NFA Determination letter for Wash Rack Drainage Site #3
OT-04	OT-TTR-82	TTR	Burn Pit	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	586	1/16/1996	NDEP NFA Determination letter for Open Trench #4
ST-05	SS-TT-83	TTR	Fuel Tank Storage: fuel	EIS 1988 PA 1992 Modeling 1993 SI 1995 DD 1995		NFA Signed	587	1/16/1996	NDEP NFA Determination letter for Old Fuel Storage Site #5
DP-06	ST-TTR-85	TTR	Aircraft Parts Pit: classified aircraft parts	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	588	1/16/1996	NDEP NFA Determination letter for Disposal Pit #6
DP-07	ST-TTR-86	TTR	Aircraft Parts Pit: classified aircraft parts	EIS 1988 PA 1992 SI 1995 DD 1995	SI Completed	NFA Signed	589	1/16/1996	NDEP NFA Determination letter for Disposal Pit #7
SD-08	SD-TTR-87	TTR	Wash Rack Storm Drainage: oil and fuel	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	590	1/16/1996	NDEP NFA Determination letter for Storm Drainage Site #8
LF-09	LF-TTR-88	TTR	Closed Landfill: paper, wood, possible solvents and petroleum products	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	591	1/16/1996	NDEP NFA Determination letter for Landfill Site #9

NTTR IRP Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
OT-10	OT-TTR-89	TTR	Burn Pit: paper and metal parts	EIS 1988 PA 1992 Modeling 1993 SI 1995 DD 1995		NFA Signed	592	1/16/1996	NDEP NFA Determination letter for Open Trench #10
OT-11	OT-TTR-92	TTR	Burn Pit: paper and wood	EIS 1988 PA 1992 Modeling 1993 SI 1995 DD 1995		NFA Signed	593	1/16/1996	NDEP NFA Determination letter for Open Trench #11
SS-12	SS-TTR-93	TTR	Fuel Transfer Area: jet fuel	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	594	1/16/1996	NDEP NFA Determination letter for Spill Site #12
FT-13	FT-TTR-94	TTR	Fire Training Area: fuel and oil	EIS 1988 PA 1992 Modeling 1993 SI 1995 DD 1995		NFA Signed	595	1/16/1996	NDEP NFA Determination letter for Fire Training Pit #13
SD-14	SD-TTR-95	TTR	Leachfield: oil	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	596	1/16/1996	NDEP NFA Determination letter for Surface Trench #14
SD-15	SD-TTR-96	TTR	Leachfield: oil	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	597	1/16/1996	NDEP NFA Determination letter for Surface Trench #15
SD-16	SD-TTR-97	TTR	Leachfield: oil	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	598	1/16/1996	NDEP NFA Determination letter for Abandoned Leach Field Site #16
SD-17	SD-TTR-98	TTR	Leachfield: oil	EIS 1988 PA 1992 SI 1995 DD 1995		NFA Signed	599	1/16/1996	NDEP NFA Determination letter for Abandoned Leach Field Site #17
LF-01	LF-41	Creech AFB	Landfill: general refuse.	Site Inspection 1993	NFA, LTM	DD Preparation has not been funded.			
LF-02	LF-42	Creech AFB	Landfill: vehicle parts, targets.	IRP Phase I 1982 Closure Report 1994 LTM 1995, 1997, 1999, 2004 DD 2005	NFA, LTM	NFA DD Signed		9/26/2005	NDEP NFA Determination letter for Landfill LF-02 (IS) Note, construction at Creech AFB after the 2005 DD has impacted NFA determination.
DP-03	DP-62-03 DP-43 IS-3	Creech AFB	Disposal Pit: general refuse.	IRP Phase I 1982,		NFA DD Signed		11/18/1992	NDEP NFA Determination letter for Burial Pit DP-34
SD-04	SD-44 WP-44, IS=04	Creech AFB	Sewage Treatment Area: sewage sludge and effluent.	IRP Phase I 1982, RI Report 1989 RI/FS 1992, DD 1992		NFA DD Signed		7/2/1993	NDEP NFA Determination letter for Indian Springs Sewage Disposal Area WP-44

NTTK irP Sites

Site Name	AKA Names	Location	Description	Key Documents	Actions Taken	Current Status	Administrative Record #	Date of Current Status	Source of Current Status Documentation
FT-05	FT-45	Creech AFB	Fire Training Area: fuel.		Limited Remediation, NFA	NFA DD Signed			
SD-06	SD-46 IS-06	Creech AFB	Wash down Areas: radioactive dust.	IRP Phase I 1982, DD 1990 NDEP SI 1991 Survey Findings 1994		NFA DD Signed		9/25/1996	NDEP NFA Determination letter for Wash down Area SD-06 a&b
SS-07	SS-47 IS-7	Creech AFB	Oil Spreading Site: oil POL.	IRP Phase I 1982 NDEP SI 1991		NFA DD Signed		11/18/1992	NDEP NFA Determination letter for Roadway Oiling SS-47
OT-08	OT-48	Creech AFB	Munitions Burial	Site Inspection 1993	PA/SI Complete, NFA recommended	NFA DD Signed			
OT-09	OT-49 IS-09	Creech AFB	Munitions Burial	IRP Phase I 1982, PA/SI 1992, 1993, DD 1994	PA/SI Complete, NFA recommended	NFA DD Signed		5/9/1997	NDEP NFA Determination letter for Munitions Burial Pit OT-09
LF-10	LF-34	Creech AFB	Landfill: munitions and general refuse.	IRP Phase I 1982, PA/SI 1992, 1993, DD 1994 SI Report 1995	PA/SI Complete, NFA recommended	NFA DD Signed		5/12/1997	NDEP NFA Determination letter for Landfill LF-10
OT-11	OT-35	Creech AFB	Landfill: munitions	IRP Phase I 1982, PA/SI 1992, 1993, DD 1994 SI Report 1995	PA/SI Complete, NFA recommended	NFA DD Signed		5/12/1997	NDEP NFA Determination letter for Munitions Burial Pit OT-11
OT-12	OT-55	Creech AFB	Munitions Burial	IRP Phase I 1982, PA/SI 1992, 1993, DD 1994	PA/SI Complete, NFA recommended	NFA DD Signed		5/9/1997	NDEP NFA Determination letter for Munitions Burial Pit OT-12
SD-13	SD-56	Creech AFB	Drainage Ditch: oil and fire retardant.	IRP Phase I 1982, PA/SI 1992, 1993, DD 1994	PA/SI Complete, NFA recommended	NFA DD Signed		5/12/1997	NDEP NFA Determination letter for Munitions Burial Pit OT-12

APPENDIX J – AOC SITES ON NTTR

Areas of Concern Summary and Detailed Characterization

(SBCC 2016)

AOC Site ID	Former Target Site	Munitions/Target Debris	Disposal Pit	Open Burn/Open Detonation Area	Spill/Release	DU/Radioactive Materials	ERP (current)	ERP (former)	ERP Site ID (if applicable)	Crash site (debris)	Site Investigation (Soil Testing)	Surface Debris Removal	Repair Cover/Fill and Cap	Place Permanent Marker	Still Active/In Active Location	No Recommended Action	Not Located	No Evidence of Site Found	Further action recommended
200							X			X	X	X							X
201							X			X	X	X							X
202							X			X	X	X							X
203							X			X	X	X							X
204		X					X				X								X
205																	X		
206																	X		
207	X	X										X							X
208	X	X										X							X
209	X	X										X							X
210			X					X	OT-04				X						X
211																		X	
212																		X	
213														X					
403			X									X		X					X
410																		X	
411		X														X			
511		X	X						OT/DP-38			X	X	X					X
512																X			
513							X			X	X	X							X
514		X	X	X			X			X	X			X					X
515	X	X	X				X			X	X			X					X
516																		X	
610			X				X						X						X
620		X														X			
621			X											X					X
622		X														X			
623		X										X							X
624	X	X										X							X
625		X	X											X					X
626		X														X			
627	X	X		X			X			X									X
628		X																	
629		X																	
630		X																	
631		X	X										X	X					X
632		X																	
633		X																	

AOC Site ID	Former Target Site	Munitions/Target Debris	Disposal Pit	Open Burn/Open Detonation Area	Spill/Release	DU/Radioactive Materials	ERP (current)	ERP (former)	ERP Site ID (if applicable)	Crash site (debris)	Site Investigation (Soil Testing)	Surface Debris Removal	Repair Cover/Fill and Cap	Place Permanent Marker	Still Active/In Active Location	No Recommended Action	Not Located	No Evidence of Site Found	Further action recommended
634		X	X										X	X					X
635		X													X				
637		X										X							X
638		X	X			X							X	X					X
639		X	X					X					X	X					X
640		X														X			
641		X		X												X			
642		X													X				
646	X	X														X			
647*												X						X	X
648		X	X				X						X					X	X
649			X	X										X					X
650	X	X	X	X								X	X	X					X
651		X	X											X					X
652		X										X							X
653		X														X			
654			X	X										X					X
655	X	X										X							X
656		X														X			
657	X											X	X						X
658		X										X							X
659		X						X					X						X
710							X			X	X	X							X
740		X																X	
742		X										X							X
750		X	X									X	X	X					X
751							X			X	X	X		X					X
752		X	X										X	X					X
753							X			X	X	X							X
754		X	X											X					X
760		X												X					X
761		X		X				X								X			
762		X												X					X
763			X											X					X
764				X										X					X
Total	10	47	21	8	0	1	14	4	N/A	8	12	25	13	21	3	16	2	6	47

* Evidence of AOC 647 was not found. However, a small amount of wood debris adjacent to the presumed site was discovered and recommended for removal.

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 200	x-ECW-200	O&M	CRASH SITE; METALLIC DEBRIS (~200 CY) SCATTERED OVER 1/2 MILE STRETCH	A site visit on July 24, 2001 confirmed a crash site with a large amount of debris remaining, scattered along an approximately 900-yard long area and consistent with an A-6. Evidence was observed to indicate some of the debris burned after impact. No evidence of odor or soil staining was observed. No subsurface magnetic anomalies were detected.	Further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal.	ECW	TECR	160	PA AOCs NTTR, Decon Estimate	ERP
AOC 201	x-ECW-201	O&M	CRASH SITE (C-130); METALLIC DEBRIS (~50 CY) SCATTERED OVER 1/4 MILE STRETCH	A site visit on July 25, 2001 confirmed a crash site with a large amount of debris remaining. Debris is concentrated in an approximately 100-yard diameter area and is consistent with a C-130. The debris burned extensively after impact. Evidence of soil staining was not observed at the AOC, except for burn scarring. Odor was not detected at the AOC. No subsurface magnetic anomalies were detected. No evidence of disposal pits was observed.	Further action under the ERP. It is recommended that shallow subsurface soil samples be collected from the AOC to evaluate the possibility of contamination. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	ECE	TECR	10	PA AOCs NTTR, Decon Estimate	ERP
AOC 202	x-ECW-202	O&M	CRASH SITE (F-4); METALLIC DEBRIS (~20 CY) SCATTERED OVER 1/2 MILE STRETCH	A site visit on July 24, 2001 confirmed a F-4 crash site with an impact crater (approximately five yards in diameter) and debris trail that stretches approximately 450 yards to the west of the crater. Evidence of odor or soil staining was not observed at the AOC. Evidence was observed to indicate the debris did not burn after impact. Subsurface magnetic anomalies were not detected at the AOC. No evidence of disposal pits was observed.	Further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	ECW	TECR	160	PA AOCs NTTR, Decon Estimate	ERP
AOC 203	x-ECW-203	O&M	CRASH SITE (A-5); METALLIC DEBRIS (~20 CY) SCATTERED OVER 1/4 MILE STRETCH	A site visit on July 24, 2001 confirmed a crash site (fighter aircraft — type undetermined) with debris scattered within 450 yards to the north. Some large pieces of debris were placed in a pile next to the site marker post. Evidence was observed to indicate some debris burned after impact. Odor or soil staining were not observed at the AOC. Subsurface magnetic anomalies were not detected at the AOC. No evidence of disposal pits was observed.	Further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	ECW	TECR	10	PA AOCs NTTR, Decon Estimate	ERP
AOC 204	x-ECW-204	Ordnance	OB/OD; MUNITIONS DEBRIS	On August 25, 2001 the AOC was confirmed to be an OB/OD area comprised of a graded pad approximately 40 by 100 yards in area. The AOC was located by map. A site marker post was not observed. Minor amounts of munitions debris were observed in the area including scattered shrapnel, part of an AIM-9 missile, and an old, small apparent practice bomb. Electrical detonation wire and two small craters were observed at the AOC. Evidence of surface burning was not observed at the AOC. No odor or soil staining was observed at the AOC.	Further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH, VOCs, RCRA metals, and explosives.	4809A	TECR	0.9	PA AOCs NTTR, Decon Estimate	ERP
AOC 205		Ordnance	OB/OD site (?), not located	OB/OD site (?), not located	N/A	Not located	--	--	PA AOCs NTTR	--
AOC 206		Ordnance	OB/OD site (?), not located	OB/OD site (?), not located	N/A	Not located	--	--	PA AOCs NTTR	--
AOC 207		Ordnance	Target debris	Old target area (suspected small arms range) with approximately 50 to 60 empty 55-gallon drums. The drums are assembled as target "pyramids" (six drums per "pyramid") and scattered across low hills and in a small ravine. No odor or stain was identified. On May 5, 2002 an unlabeled orange painted steel site marker post was placed at the AOC. Munitions debris was lacking at the AOC. A magnetic locator survey of the area resulted in no magnetic anomalies detected. There is no evidence of disposal pits in the vicinity of the AOC.	AOC 207 does not fall under the authority of the current ERP. However, it is recommended that surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	N/A	TECR	--	PA AOCs NTTR	--
AOC 208		Ordnance	Target debris	On May 6, 2002 the AOC area was located by map. Old small arms range with one target vehicle and approximately 20 empty 55-gallon drums (used as targets) remaining at the site. The target debris is scattered along an approximately 450-yard long section of road. No odor or stain was observed near the drums. An unlabeled orange painted steel site marker post was installed at the site. A magnetic locator survey of the area resulted in no magnetic anomalies detected. There is no evidence of disposal pits at the site.	AOC 208 does not fall under the authority of the current ERP. However, it is recommended that surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	N/A	TECR	0.7	PA AOCs NTTR	--
AOC 209		Ordnance	Munitions and target debris	A site visit on May 6, 2002 confirmed there are eight vehicles (four jeeps, two trucks, and two sedans) of a 1950s to 1960s vintage abandoned along a 450-yard long section of dirt road. The vehicles are likely part of an old target complex. All vehicles, except for two of the jeeps, have had engines and transmissions removed. No evidence of soil staining was observed. Two Mk106 BDUs exist at the site. An unlabeled orange painted steel site marker post was installed at the site. There is no evidence of disposal pits in the vicinity of the site.	AOC 209 does not fall under the authority of the current ERP. However, it is recommended that surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	N/A	TECR	0.7	PA AOCs NTTR	--
AOC 210	OT-04	Ordnance	Munitions pit	A site visit on June 9, 2001 identified the site as a previous IRP site (IRP site OT-04). A pink concrete IRP monument was adjacent to the orange fiberglass AOC marker. A posted munitions disposal pit exists at the site. The disposal pit cover, approximately 7 by 65 yards in area, is partially subsided, cracked, and eroded. Cracks up to five inches wide and 12 inches deep were observed. Surface water from storms is draining into the disposal pit.	AOC 210 was previously addressed as IRP site OT-04 and approved for NFA by the NDEP. However, AOC 210 is recommended in this PA for further action to repair the disposal pit cover. The AOC already has a permanent marker (the pink concrete IRP monument), so a new permanent marker is not necessary.	N/A	62	0.1	PA AOCs NTTR	--
AOC 211		O&M	Reportedly F-111 crash site	On May 7, 2002, an approximately four square-mile area around the provided AOC location was searched, however no evidence of a crash site was observed.	AOC 211 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	N/A	TECR	--	PA AOCs NTTR	N/A
AOC 212		O&M	Reportedly Italian Tornado crash site, no evidence observed	On May 7, 2002, an approximately two and one-half square-mile area around the provided AOC location was searched, however no evidence of a crash site was observed.	AOC 212 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	N/A	TECR	--	PA AOCs NTTR	N/A

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 213		Ordnance	Coronet Clean scrap holding area	A site visit on May 6, 2002 confirmed the AOC is the current Range scrap holding area. No evidence of disposal pits was observed in the vicinity of the AOC and there was no evidence of soil staining from past activities was observed at the site.	AOC 213 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	N/A	TECR	--	PA AOCs NTTR	N/A
AOC 403	x-65-210	Ordnance	LG MOUNDED AREA(50x100 yd), EVIDENCE OF CONSTRUCTION DEBRIS (2 COMPRESSED GAS CYLINDERS, METAL CABINETS) ON SW CORNER. POSSIBLY ABANDONED TOWER SITE	Two confirmed disposal pits (the northern and southern soil mounds) and one possible disposal pit (the central soil mound) are identified at the AOC per site visit on July 7, 2001. A magnetic locator survey in the northernmost and southernmost areas of mounded soil (40 by 80 yards and 30 to 35 yards diameter areas, respectively) resulted in strong subsurface magnetic anomalies detected. Subsurface magnetic anomalies were not detected in the central area of mounded soil (an approximately 20-yard diameter area). The contents of the disposal pits is unknown, but is suspected to be comprised of vehicle and construction debris. The disposal pit covers are slightly mounded and are in good condition, though are highly irregular in shape.	It is recommended that a permanent marker be placed at AOC 403 to identify the disposal pits. Additionally, surface debris remaining at the site should be removed for proper disposal by the responsible program agency.	64E	65	43	PA AOCs NTTR, Decon Estimate	--
AOC 410	x-64-210	Ordnance	POTENTIAL BP SUSPECTED TARGET AND MUNITIONS DEBRIS	On May 4, 2002 the AOC area was located by GPS. A site marker post was not found. The site is located within the boundary of an active live munitions target complex. A magnetic locator survey of the area resulted in no significant magnetic anomalies detected. Evidence of a disposal pit was not observed.	AOC 410 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65C	64	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 411	x-64-205	Ordnance	ONE POSTED MUNITIONS BP (20X100 yd) ON WEST SIDE OF ROAD; SUSPECTED BP OF SIMILAR SIZE ON EAST SIDE	A site visit on May 4, 2002 identified several metal fence posts with wire attached to them, a fallen plywood sign, and part of an aircraft fuel drop-tank. The plywood sign lacked markings. There was no staining on or around the drop-tank. A site marker post was not present at the AOC. No subsurface magnetic anomalies detected. No evidence of a disposal pit was observed at the AOC. It is suspected the plywood and metal posts were previously mistaken for a posted munitions disposal pit.	AOC 411 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65C	64	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 511	x-65-211, OT/DP-38	Ordnance	MULTIPLE (5-7) MUNITIONS BPs. SIX LARGE PILES OF EXCESS PIT SOIL/GRAVEL	A site visit on August 25, 2001 identified twelve disposal pits, all suspected to contain munitions debris (some are posted as munitions disposal pits), and, approximately one-quarter to one-half mile to the south, a large area (approximately 250 yards in diameter) containing multiple disposal pits, suspected to contain target debris. The number of disposal pits in this southern area is unknown because the boundaries of the disposal pits could not be identified. Additionally, there is scattered munitions, target, and wood debris throughout the area and there is a small pile of wood debris located near the center of the northern site area. The covers of the northern disposal pits (those suspected to contain munitions debris) range in area from 5 by 15 yards to 15 by 40 yards. A magnetic locator survey throughout the disposal pit area indicated strong subsurface magnetic anomalies throughout the area. Most covers of the disposal pits suspected to contain munitions debris are slightly mounded and in good condition. However some disposal pits are partially filled trenches. Water from storm runoff intermittently collects in these partially filled disposal pits. The covers of the disposal pits suspected to contain target debris are in poor condition. The soil in this area is subsided, cracked, and eroded, exposing vehicle debris and resulting in water draining into the disposal pits.	NFA for IRP recommended in 1995. It is recommended in this PA that all damaged or ineffective disposal pit covers, including those in the southern disposal pit area (IRP site OT/DP-38), be repaired; partially filled trench disposal pits be filled and capped with soil; and a permanent marker be placed at AOC 511 to identify the disposal pits. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	64E	65	11	PA AOCs NTTR, Decon Estimate	--
AOC 512		Ordnance	Munitions pit and bunker (?)	A site visit on August 25, 2001 identified a small area with very little surface debris. An approximately eight-foot-tall soil mound was observed at the AOC. The soil mound possibly is the remains of a small bunker. There is abandoned communications wire running away from the AOC (to the north) along a north-south oriented road. Evidence of EOD activities was not observed. There was no evidence of soil staining observed at the AOC. Evidence of OB/OD areas or disposal pits was not observed at the AOC. Subsurface magnetic anomalies were not detected at the AOC.	AOC 512 was recommended for NFA in the 1995 USAFWTC/EMR PA. This AOC does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	N/A	65	--	PA AOCs NTTR	N/A
AOC 513	x-65-213	O&M	CRASH SITE (SINGLE ENGINE JET); METALLIC DEBRIS OVER 900 YD AREA	A site visit on May 5, 2002 located the AOC and confirmed the crash site. The debris is from an old (1950s to 1960s vintage) single-engine jet. No evidence of odor or soil staining was observed at the AOC. No subsurface magnetic anomalies were detected at the AOC.	In 1995, the USAFWTC/EMR PA recommended NFA at AOC 513. However, AOC 513 is recommended in this PA for further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal.	64C	65	131	PA AOCs NTTR, Decon Estimate	ERP
AOC 514	x-65-214	Ordnance	EOD MUNITIONS BURN PIT WITH SMALL CALIBER AND BDU-33	A site visit on May 4, 2002 confirmed the AOC as a previous EOD munitions burn area (OB/OD area) with small caliber (mostly 20 mm) and BDU-33 munitions debris. The drums noted in the Loral (1994d) document were removed. Only minor surface debris remains, however one piece of visibly intact UXO was observed (CBU "tennis ball" six submunition). A magnetic locator survey confirmed the existence of one disposal pit (approximately 3 by 10 yards in area) at the site. The disposal pit is likely an EOD pit containing munitions debris. The disposal pit cover is in good condition.	AOC 514 is recommended for further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH, VOCs, RCRA metals, and explosives. Additionally, it is recommended that a permanent marker be placed to identify the disposal pit.	64C	65	--	PA AOCs NTTR, Decon Estimate	ERP

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 515	x-65-215	Ordnance	ABANDONED TARGET; BURIED TARGET AND MUNITIONS DEBRIS	A site visit on July 8, 2001 identified the approximately 200-yard diameter former target area and confirmed the minor scattered munitions debris and other debris. The apparent burn pit stated in the 1995 PA was identified, though staining was not observed during the site visit. Two empty guided missile containers remain as surface debris and one missile container is mostly buried. Few EOD M-60 igniters are scattered at the site. A magnetic locator survey in the area identified one disposal pit at the site, approximately 3 by 10 yards in area. The contents of the pit are unknown, though likely include target debris. The cover of the disposal pit is in good condition.	AOC 515 was recommended for NFA in the 1995 USAFWTC/EMR PA, however AOC 515 is recommended for further action under the ERP in this PA. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH, VOCs, RCRA metals, and explosives. Additionally, a permanent marker should be placed at AOC 515 to identify the disposal pit and surface debris remaining at the site should be removed for proper disposal by the responsible program agency.	64C	65	6.5	PA AOCs NTTR, Decon Estimate	--
AOC 516		Ordnance	OB/OD site (?)	On May 5, 2002 an approximately 1,000 by 1,000 yard area centered on the provided coordinates was searched, however no evidence of a site was located.	AOC 516 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65 (2003)	--	--	PA AOCs NTTR	N/A
AOC 610	x-61-200	Ordnance	TWO POTENTIAL BPs(3X10yd ea) 50yd NE OF 6101. NO EVIDENCE OF ORDNANCE. METAL TGT DEBRIS (~15CY) LOCATED 100 yd S OF 6101 IN GRAVEL WASH.	A site visit on June 9, 2001 identified the site as a previous IRP site (IRP Site OT-04). A pink concrete IRP monument, with the site number, was observed at the site, adjacent to the orange fiberglass AOC marker. The site visit confirmed a posted munitions disposal pit exists at the site. The disposal pit cover, approximately 7 by 65 yards in area, is partially subsided, cracked, and eroded. Cracks up to five inches wide and 12 inches deep were observed. Surface water from storms is draining into the disposal pit.	AOC 210 was previously addressed as IRP site OT-04 and approved for NFA by the NDEP. However, AOC 210 is recommended in this PA for further action to repair the disposal pit cover. The AOC already has a permanent marker (the pink concrete IRP monument), so a new permanent marker is not necessary.	61B	62	0.2	PA AOCs NTTR, Decon Estimate	ERP
AOC 620	x-62-200	Ordnance	ABANDONED TGT: ~10 CY SCRAP LUMBER, ~100 TIRES	A site visit on June 10, 2001 confirmed the site is a large area of disturbed soil with a small amount of target (metal and wood) debris and munitions debris scattered throughout the area. The 10 cubic yards of scrap lumber and 100 tires were previously removed from the site. A magnetic locator survey in the area of disturbed soil resulted in no subsurface magnetic anomalies detected. There is no indication of buried ferromagnetic materials and no disposal pits are suspected. No evidence of shallow groundwater was observed in the vicinity of the site. Possible old UXO was observed at the site and in the vicinity of the site. A small pile of wire scrap (approximately five cubic yards) was observed approximately 400 yards east of the site.	AOC 620 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	62B	62	76	PA AOCs NTTR, Decon Estimate	N/A
AOC 621	x-62-201	Ordnance	POTENTIAL BP (4X15yd) - SCRAP LUMBER, WIRE	A site visit on June 10, 2001 confirmed the AOC was cleaned of surface debris. An area of disturbed soil was identified that is possibly the area of a disposal pit (approximate surface area 4 by 15 yards). The site vicinity is almost completely free of debris. Only minor amounts of wood and wire/cable scrap were observed scattered in the area. The presence of a disposal pit could not be verified or disproved from the site observations. Minor amounts of ferromagnetic materials (as determined with a magnetic locator) were identified at the site, however they are likely pieces of wire/cable scrap that are lightly covered with soil. A disposal pit containing non-ferromagnetic materials is probable at the site. The disposal pit cover, if present, is in good condition.	It is recommended that a permanent marker be placed at AOC 621 to identify the probable disposal pit.	62B	62	--	PA AOCs NTTR, Decon Estimate	--
AOC 622	x-62-202	Ordnance	ABANDONED TGT: ~5 CY SCRAP LUMBER, ~100 TIRES	A site visit on June 9, 2001 confirmed the site was cleaned of surface debris. An area of lightly disturbed soil was identified with minor amounts of munitions and target debris scattered in the area. The site vicinity is almost completely free of debris. A magnetic locator survey in the area of disturbed soil resulted in no subsurface magnetic anomalies detected. There is no indication of buried ferromagnetic materials and no evidence of disposal pits.	AOC 622 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	62B	62	16	PA AOCs NTTR, Decon Estimate	N/A
AOC 623	x-62-203	O&M	6 OLD MODEL AUTO FRAMES, METAL SCRAP, METAL DRUMS	A site visit on June 10, 2001 confirmed the auto bodies, metal scrap, and metal drums remain at the AOC. Observed at the AOC were seven old auto bodies (1920's vintage)-that are lacking frames, interiors, and all mechanical components. Also observed were five empty 55-gal drums (type DOT17E). Four drums were labeled as engine oil and one was labeled as "Cleaning Compound, Aircraft Surface, Alkaline Waterbase". No soil staining was observed at the AOC. No munitions debris was observed at the AOC. A magnetic locator survey in the area resulted in no subsurface magnetic anomalies detected. There is no evidence of buried materials or disposal pits at the AOC.	AOC 623 does not fall under the authority of the current ERP. However, it is recommended surface debris remaining at the AOC be removed for proper disposal by the responsible program agency.	62B	62	--	PA AOCs NTTR, Decon Estimate	--
AOC 624	x-62-204	Ordnance	ABANDONED TGT: ~5 CY SCRAP LUMBER, ~100 TIRES	A site visit on June 9, 2001 confirmed the AOC was a single target, approximately 100 yards in diameter and identified approximately five cubic yards of scrap lumber and approximately 100 tires remaining at the AOC. The wood and tires are parts of the target structure; comprised of a large bulls eye pattern created with concentric rings of old tires with a 3 by 3-yard wood frame structure in the center. The largest tire ring is approximately 100 yards in diameter. A minor amount of inert munitions debris is scattered throughout the area. Some of the munitions debris is old World War II (WWII) era inert bombs, some is more modern inert bombs. No evidence of disposal pits was observed.	AOC 624 does not fall under the authority of the current ERP. However, it is recommended the debris remaining at the AOC be removed for proper disposal by the responsible program agency.	62B	62	1.6	PA AOCs NTTR, Decon Estimate	--
AOC 625	x-62-205	Ordnance	ABANDONED TGT: 1 BULLDOZER, ~100 TIRES	A site visit on June 9, 2001 confirmed the bulldozer and tires were previously removed from the AOC and identified an area of disturbed soil that is possibly the area of a disposal pit (approximate surface area 20 by 15 yards). Moderate amounts of small arms debris, other munitions debris, and target debris were observed scattered throughout the area. The presence of a disposal pit could not be verified or disproved from the site observations. Surface debris scattered throughout the area produced magnetic anomalies that interfered with the magnetic locator survey, effectively masking any possible subsurface anomalies that would indicate a disposal pit. A disposal pit containing unknown materials may exist at the AOC. The disposal pit cover, if present, is in good condition.	It is recommended a permanent marker be placed at AOC 625 to identify the probable disposal pit.	62B	62	0.2	PA AOCs NTTR, Decon Estimate	--
AOC 626	x-62-206	Ordnance	TGT SCRAP PILE: ~300 CY OF LUMBER, POLES, METAL, TIRES	A site visit on June 9, 2001 confirmed the AOC was cleaned of surface debris. Only minor amounts of wood and metal target debris remain scattered in the area. The site vicinity is almost completely free of debris. Evidence of surface burning was observed at the AOC. No evidence of disposal pits was observed.	AOC 626 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	62B	62	--	PA AOCs NTTR, Decon Estimate	N/A

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 627	x-62-207	Ordnance	TGT SCRAP PILE: ~1000 CY, PREDOMINANTLY METAL	On June 9, 2001 the AOC was located using GPS within the area of a live heavy munitions target complex that is apparently dormant. A site marker post was not identified. The site visit confirmed the AOC was cleaned of surface debris. Only minor amounts of wood and metal target debris and munitions debris remain scattered in the area. Evidence of surface burning was observed at the AOC, within the area of what likely is an old target concealment berm. The burn area is approximately 15 yards in diameter. It is suspected the AOC was possibly used as an OB/OD area. No evidence of disposal pits was observed in the vicinity of the AOC.	AOC 627 is recommended for further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH, VOC, RCRA metals, and explosives.	62A	62	--	PA AOCs NTTR, Decon Estimate	ERP
AOC 628	x-62-208	Ordnance	MULTIPLE BPs (1/4 mi radius), QTY UNKNOWN. METAL TGT SCRAP PILE (~200 CY)	On June 9, 2001 the AOC area was located by GPS. A site marker post was not identified. The target scrap pile was not observed, though scattered target and inert munitions debris was observed in the area. There are the remains of multiple vehicle targets in the area. Debris at these target locations was mostly cleaned, though some debris remains. The underground bunker reported in the interviews was not observed in the vicinity of the AOC coordinates. No evidence of disposal pits was observed in the area of the provided coordinates. The stated potential disposal pits may have been misinterpreted from an area of natural vegetative variation, adjacent to the site coordinates, that appears similar to the surface of a disposal pit. Areas of disturbed soil consistent with a disposal pit were not observed.	AOC 628 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required.	62A	62	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 629	x-62-209	Ordnance	METAL TGT SCRAP PILE (~500 CY), 50 TIRES	A site visit on June 9, 2001 confirmed the AOC was cleaned of surface debris. Only minor amounts of wood, metal, and munitions debris remains scattered in the area. No evidence of disposal pits was observed. The site marker post was removed from the AOC some time prior to the site visit. Only the broken base of the post remains at the AOC.	AOC 629 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	62A	62	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 630	x-63-200	Ordnance	BARROW PIT SITE THAT CONTAINS ~10 CY OF AIRCRAFT STARTER CARTRIDGES AND A LIMITED AMT OF MUNITIONS RESIDUE	On August 25, 2001 the AOC area was located by GPS. A site marker post was not found. A small barrow pit, approximately 20 by 25 yards in area and approximately one yard deep, was located. The site visit confirmed the area was cleaned of surface debris. Only minor amounts munitions debris; comprised of three spent smoke grenades and expended .223 caliber blank cartridges, remain scattered in the area. A magnetic locator survey of the area resulted in no magnetic anomalies detected. Evidence of disposal pits was not observed in the vicinity of the AOC.	AOC 630 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	Creech Tower Airspace	63	0.1	PA AOCs NTTR, Decon Estimate	N/A
AOC 631	x-63-201	Ordnance	EVIDENCE OF BURIED BATTLE TANK, POSSIBLY MORE BURIED TGT RESIDUE	A site visit on August 24, 2001 confirmed the presence of a target debris disposal pit (approximate surface area 5 by 20 yards). A battle tank turret is exposed at the surface, within the margin of the disposal pit. It appears the tank turret is not attached to an entire buried tank. Within the turret there is one empty 5-gallon bucket that has what appears to be dried olive-drab paint on it. There are minor amounts of munitions debris scattered throughout the vicinity. The content of the disposal pit is confirmed to include vehicle target debris and other ferromagnetic materials (as determined with a magnetic locator). It is unknown if the disposal pit contains munitions debris or other types of debris. The disposal pit cover has subsided, is cracked, and is partially eroded (exposing the turret). Minor puddles develop near the center of the disposal pit following storms.	AOC 631 is recommended for further action to repair the disposal pit cover. Additionally, a permanent marker should be placed at the AOC to identify the disposal pit.	63B	63	--	PA AOCs NTTR, Decon Estimate	--
AOC 632	x-63-202	Ordnance	SUSPECTED BP (20X20 yd), NO SURFACE DEBRIS PRESENT	A site visit on August 24, 2001 identified the AOC as an area of disturbed soil, approximately 25 yards in diameter, slightly mounded in the north and slightly depressed in the south. Minor amounts of munitions and target debris are scattered throughout the area. A magnetic locator survey in the area of disturbed soil resulted in no subsurface magnetic anomalies detected. There is no indication of buried ferromagnetic materials and no disposal pit is suspected. It is suspected the area possibly was a target debris collection area, cleaned of debris.	AOC 632 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	63B	63	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 633	x-63-210	Ordnance	R63 LEFT STRAFE PIT- SUSPECTED PB (2 ACRE MOUNDED AREA WITH BOMB AND CABLE DEBRIS)	A site visit on August 24, 2001 identified the large area of mounded soil covering an area of approximately 80 by 100 yards and rising approximately one to two yards in height above the surrounding area. Wood and cable debris and minor amounts of munitions debris are scattered and partially covered with soil across the surface of the mounded area. A magnetic locator survey in the area resulted in no subsurface magnetic anomalies identified, except for partially covered surface debris believed to be predominantly cable debris. A disposal pit is not suspected at this AOC. It is suspected the soil mound is an accumulation of material scraped off the surface of the playa to create the strafe target area. Surrounding the strafe target area, the playa is covered with a thin veneer of pebbles. This veneer has been removed from the area of the strafe pits.	AOC 633 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	63B	63	1.7	PA AOCs NTTR, Decon Estimate	N/A
AOC 634	x-63-204	Ordnance	SUSPECTED BP, POSSIBLY TGT RESIDUE (OLD SAM SITE 200 YD DUE EAST)	A site visit (with an EOD escort) on August 24, 2001 identified an approximately 30 by 20-yard area of mounded soil (approximately one yard high in places) adjacent to the site marker and a covered trench disposal pit approximately 150 to 200 yards east of the soil mound. Munitions and target debris was observed scattered across the surface of the soil mound and apparently mixed into the soil. Additional munitions and target debris is scattered throughout the vicinity of the AOC. Adjacent to the trench disposal pit there is a wooden box-like structure (dimensions approximately 3.5 by 3.5 by 3.5 yards) that is possibly part of the old SAM site. Approximately 150 to 200 yards east of the trench disposal pit are numerous small dirt mounds with only minor surface debris in the area. A disposal pit is not indicated beneath the soil mound and the content of the trench disposal pit is unknown, except that it contains ferromagnetic materials (as determined with a magnetic locator). There is no indication of disposal pits in the area of the small dirt mounds. The trench disposal pit has a surface area of approximately 10 by 30 yards and is approximately three-quarters full of materials. The cover is subsided, cracked, and partially eroded. Surface water, when present, is draining into the disposal pit.	AOC 634 is recommended for further action to fill and cap the trench disposal pit with soil. Additionally, a permanent marker should be placed at the AOC to identify the disposal pit.	63B	63	0.2	PA AOCs NTTR, Decon Estimate	--

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 635	x-63-205	Ordnance	SUSPECTED PB EAST OF CBU GRID (MOUNDED AREA, NO EVIDENCE OF DEBRIS ON SURFACE)	A site visit (with an EOD escort) on August 24, 2001 identified the AOC as an area of mounded soil, approximately 25 by 30 yards in area and approximately one to two yards in height. Munitions and target debris, including UXO from CBUs (bomb live unit [BLU] submunitions), EOD M-60 igniters, and other debris, is scattered across the surface of the mound and throughout the area. EOD personnel observed some UXO was cracked or split open, exposing weathered explosive filler. A magnetic locator survey in the area resulted in no subsurface magnetic anomalies identified, however extensive surface debris resulted in numerous surface anomalies potentially masking the presence of subsurface anomalies. A disposal pit is not indicated at the AOC. It is suspected the AOC was a munitions and target debris collection area and possibly an EOD operations area.	AOC 635 does not fall under the authority of the current ERP. The AOC is within an active target complex.	63B	63	0.2	PA AOCs NTTR, Decon Estimate	N/A
AOC 637	x-63-207	Ordnance	MISCELLANEOUS TGT VEHICLES AND SCRAP PILES (~300 CY TOTAL) SCATTERED OVER WIDE AREA	A site visit on June 10, 2001 confirmed the area was cleaned of almost all surface debris. The target vehicles and scrap piles were previously removed. Adjacent to the site marker is an area (approximately 20 by 60 yards) of disturbed soil that is free of debris. To the northwest of the site marker are two fallen wood target silhouettes and one fallen electrical panel. A small area (approximately two feet in diameter) of stained soil was observed approximately seven yards northwest of the marker post. The stained soil had a slight to moderate petroleum odor and resulted in a PID value of 0.2 to 0.6. One partially filled and sealed 5-gallon metal bucket was observed at one of the target silhouettes. The contents of the bucket are unknown, though it is suspected to contain paint. Dry olive-green paint was observed on the exterior of the bucket. A magnetic locator survey in the area resulted in no subsurface magnetic anomalies detected. There is no evidence of buried ferromagnetic materials or disposal pits at the AOC.	AOC 637 does not fall under the authority of the current ERP. However, it is recommended that surface debris remaining at the AOC be removed for proper disposal by the responsible program agency.	63B	63	--	PA AOCs NTTR, Decon Estimate	--
AOC 638	x-63-208	Ordnance/DU	TWO SUSPECTED BPs (5X20 yd EA)	A site visit on June 10, 2001 confirmed the AOC is comprised of two disposal pits with surface areas of approximately 5 by 50 yards and approximately 25 by 50 yards, respectively. There is also a buried battle tank, partially exposed, approximately 100 yards east of the two disposal pits. The disposal pits lie to the west of an apparently active battle tank target complex. Abundant target vehicle and munitions debris is scattered in the area to the east of the disposal pits. Target debris is comprised dominantly of battle tank debris. Observed munitions debris includes DU penetrators, and inert 20 mm and 30 mm rounds. HEI rounds were also likely expended in the area. DU and HEI rounds are commonly expended together within the DU target area in a combination referred to as "combat mix", a sequential mixture of DU and HEI rounds in which an HEI round is followed by five DU rounds. The ambient radiation at the site and east of the site shows no variation from background. Radiation levels increase to up to 2.5 milli-Rads per hour (mR/hr) within approximately two feet of a DU penetrator. The disposal pits are suspected to contain target debris from the nearby battle tank target complex because partially covered battle tank debris was observed on the surface of one of the disposal pits. It is unknown if munitions debris was disposed of within the disposal pits. The cover on the two disposal pits is slightly mounded and is in good condition. The cover on the buried battle tank has partially collapsed into the interior of the tank.	It is recommended the cover of the partially buried battle tank be repaired and a permanent marker be placed at AOC 638 to identify the disposal pits. The DU present at the site does not fall under the authority of the current ERP.	63B	63	0.3	PA AOCs NTTR, Decon Estimate	--
AOC 639	DP/OT-12	Ordnance	Two disposal pits, open trench with no surface debris. Metal target and munitions debris scattered in the area.	A site visit on June 10, 2001 confirmed the AOC is comprised of two disposal pits with surface areas of approximately 10 by 50 yards and approximately 10 by 25 yards, respectively. There is also a small open trench (dimensions approximately 10 by 5 by 1 yards), lacking surface debris, approximately 100 yards north of the disposal pits. Metal target and munitions debris is scattered in the area. The ambient radiation at the AOC and east of the AOC shows no variation from background. No DU penetrators were observed. A large crater, with apparent electrical detonation wires running away from it, was observed just south of the open trench. The open trench was previously sampled during the IRP SI as part of site DP/OT-12. On April 24, 1994 one surface and two subsurface soil samples were collected from the trench. The samples were non-detect for TEPH, TNT, and explosives analyses and concentrations of PP metals were determined to be representative of background concentrations. The disposal pits contain unknown ferromagnetic materials, as determined with a magnetic locator. A previous magnetic locator survey of the open trench, conducted by D&M in 1994 resulted in no subsurface anomalies detected. The cover on the two disposal pits is slightly mounded and is in good condition. The surface of the trench is in good condition, though water intermittently collects in the open trench after storms.	It is recommended the open trench (a possible trench disposal pit) and crater be filled and capped with soil. Additionally, a permanent marker should be placed at AOC 639 to identify the disposal pits.	--	63	0.25	PA AOCs NTTR, Decon Estimate	ERP (?)
AOC 640	x-64-200	Ordnance	TGT 6409; METAL TGT DEBRIS PILE (~100 CY) PLUS DEBRIS SCATTERED ON THE EAST RAVINE BANK	A site visit on July 7, 2001 confirmed the 100 to 150-yard diameter area was cleaned of surface debris. Only minor amounts of scattered munitions fragments and small arms debris remains at the AOC. There was no evidence of disposal pits observed at the AOC.	AOC 640 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65C	64	3.7	PA AOCs NTTR, Decon Estimate	N/A
AOC 641	x-64-201	Ordnance	PILED WOOD AND METAL TGT DEBRIS (100 - 150 CY)	A site visit on July 7, 2001 confirmed the approximately 30 to 40-yard diameter area was mostly cleaned of surface debris. Only small amounts of scattered munitions debris, wood and metal target debris, and wire scrap remains. There was no evidence of disposal pits observed at the AOC. Surface burning of debris has occurred at the AOC. A small area (approximately one-foot diameter) of stained soil was identified approximately 10 yards south of the site marker post. The stained soil has a slight to moderate petroleum odor and resulted in a PID value of 0.4. Evidence of disposal pits was not observed.	AOC 641 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65C	64	0.3	PA AOCs NTTR, Decon Estimate	N/A

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 642	x-64-202	Ordnance	WOOD (~20 CY) AND METAL (~200 CY) TGT DEBRIS PILES. SOME MUNITIONS RESIDUE WITHIN METAL SCRAP PILE. SUSPECTED BPs(2). THIS SITE MAY BE OT-64S-31	A site visit on July 7, 2001 confirmed the approximately 40 by 80-yard area of graded soil was cleaned of surface debris. A small amount of scattered munitions, wood and metal debris was observed in the area. A small area (approximately two feet in diameter) of stained soil was observed near the northeast side of the AOC. The stained soil had a slight to moderate petroleum odor and resulted in a PID value of 0.0. Several small and empty open trenches (approximately one foot deep, two to three feet wide, and five to ten feet long) are located near the eastern margin of the AOC. The trenches are suspected to be small EOD trenches used to detonate small ordnance. A magnetic locator survey of the area resulted in no subsurface magnetic anomalies detected, except from lightly covered and scattered surface materials. There is no evidence of buried ferromagnetic materials or disposal pits at the AOC.	AOC 642 does not fall under the authority of the current ERP. The AOC is an active debris collection area.	65C	64	0.7	PA AOCs NTTR, Decon Estimate	N/A
AOC 646	x-64-206	Ordnance	SUSPECT BP (50X100 yd, FENCED OFF), METAL TGT DEBRIS PILE (~200 CY) APPROX 3000 yd SE	A site visit on July 8, 2001 identified the approximately 50 by 100-yard formerly fenced area. Only fence posts remain standing. Some fence wire is located on the ground along the southern fence line. The debris was previously removed. Munitions and target debris were observed scattered throughout the area. The target debris includes numerous scattered vehicle components including engine block and transmission components. Soil staining, less than two feet in diameter, was observed around one of the transmission components (located approximately 80 yards east of the site marker post). The stained soil had a slight to moderate petroleum odor and resulted in a PID value of 0.2 to 0.4. The AOC is located adjacent to an active live munitions target. Recent Mark-84 detonation craters and destroyed or damaged vehicle targets were observed. Within the once fenced area are multiple small dirt berms. These berms appear to be target concealment berms, consistent with AAA target concealment. A magnetic locator survey in the area indicated no subsurface magnetic anomalies, though a scattering of debris throughout the area produced magnetic anomalies that interfered with the magnetic locator survey. A disposal pit is not suspected at this AOC.	AOC 646 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	64A	64	1	PA AOCs NTTR, Decon Estimate	N/A
AOC 647	x-64-207	Ordnance	WOOD (~150 CY) TGT DEBRIS PILES. SUSPECTED BPs (1or2) NEAR PILES AND ACROSS ROAD (3X25 yd)	On July 8, 2001 the AOC area was located by GPS. A site marker post was not identified. There was no evidence of debris piles or disposal pits in the area of the AOC coordinates provided. The vicinity of the site was searched on foot to a distance of up to approximately three-quarter miles. The only area potentially identified as AOC 647 was located approximately 900 yards southeast of the provided coordinates and was comprised of a small wood debris pile, estimated to be comprised of less than five cubic yards of wood. No evidence of a metal debris pile was observed. An area of disturbed soil was identified across the road from the wood pile. A magnetic locator survey of the area resulted in no magnetic anomalies detected. There is no evidence of disposal pits in the vicinity of the provided coordinates or in the vicinity of the located wood debris. The area of disturbed soil across the road from the wood debris pile appears to be an old segment of the main dirt road, now dormant.	AOC 647 does not fall under the authority of the current ERP. However, it is recommended that surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency	64A	64	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 648		Ordnance	Munitions pit.	A site visit on July 8, 2001 identified the AOC as a previous IRP site (IRP Site OT-25). A pink concrete IRP monument, with the site number, was observed at the AOC, adjacent to the orange fiberglass marker post. Site OT-25 was stated to be comprised of an unknown number of inactive EOD pits with inert munitions debris buried and stockpiled on the surface nearby. The site visit confirmed a trench disposal pit, approximately three-quarters full and likely containing munitions debris, comprises the AOC. The pit is likely an EOD pit. M-60 igniters were observed at the site. A minor amount of munitions debris was observed scattered at the AOC. The disposal pit cover is in good condition.	AOC 648 was previously addressed as IRP site OT-25, approved for NFA by the NDEP. However, AOC 648 is recommended for further action under the ERP. It is recommended in this PA the trench disposal pit be filled and capped with soil. The AOC already has a permanent marker (the pink concrete IRP monument), so a new permanent marker is not necessary.	64A	64	1.00	PA AOCs NTTR	ERP?
AOC 649	x-64-209	Ordnance	ONE PARTIALLY OPEN BP (4X40 yd); METAL TARGET DEBRIS, SMALL CALIBER MUNITIONS DEBRIS	On May 4, 2002 the AOC area was searched for with GPS. A site marker post or evidence of a sight was not located at the provided coordinates, the center of a large alluvial fan. There were no roads leading to the site coordinates. An approximately 1,500 by 1,500 yard area, centered on the provided coordinates, was searched. No evidence of a site was found in this area. Upon departure from the site and approximately one mile southeast of the reported coordinates, an orange fiberglass site marker was observed adjacent to the road. Characteristics of this posted, though unlabeled, site matched those of the reported site. It is believed the provided coordinates incorrec and this posted site is 649. The site a partially filled probable disposal pit with minor scattered 20 mm shell casings. Evidence of surface burning was observed at the site. No drums were observed in the area. A magnetic locator survey in the area indicated no significant subsurface magnetic anomalies, though a partially filled disposal pit containing non-ferromagnetic materials is probable at the AOC	It is recommended that a permanent marker be placed at AOC 649 to identify the probable disposal pit.	65C	64	--	PA AOCs NTTR, Decon Estimate	--

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 650	x-65-200	Ordnance	MULTIPLE (3-5) BPs, SUSPECTED TGT AND MUNITIONS RESIDUE	A site visit on July 8, 2001 identified a large area, approximately 450 by 900 yards, where three confirmed disposal pits; two possible trench disposal pits; a large, old, and apparently dormant target complex; and a small trash pile were observed. Two of the confirmed disposal pits have dimensions of approximately 15 by 50 yards and one is approximately 10 by 15 yards. The two possible disposal pits both have a surface area of approximately 5 by 20 yards. One of the possible trench disposal pits is only three-quarters filled with dirt. Additionally, a large, old, and apparently dormant target complex lies to the east of the disposal pits. There is a large amount of old inert munitions debris scattered throughout a part of the complex area that appears to be an old bombing target. Also in the area of the target complex is an old apparent strafing target where there is a great amount of expended 20 mm rounds scattered across the area. There is also a small trash pile east of the disposal pits comprised of one old pool table, two chairs, and four old air conditioning units. There is evidence of surface burning near the two largest disposal pits. There are numerous small, roughly circular, depressions scattered throughout the area of the disposal pits, some of which have apparent electrical detonation wire around them. These depressions may be EOD detonation points. One empty 55-gallon metal drum was observed south of the disposal pits. There was no odor or staining associated with the drum. In addition to abundant munitions debris scattered in the area of the apparent target complex, small amounts of munitions debris was observed scattered throughout the disposal pit area. Construction debris, consisting of wood, metal, pipes, wire and other materials was observed scattered throughout the disposal pit area. A magnetic locator survey throughout the disposal pit area indicated strong subsurface magnetic anomalies within the boundaries of the three confirmed disposal pits. Magnetic anomalies were not identified within the margins of the two possible trench disposal pits. The contents of the confirmed and suspected disposal pits are unknown, except the confirmed disposal pits are known to contain ferromagnetic materials (as determined with the magnetic locator). It is suspected the confirmed disposal pits contain construction debris. The covers of the confirmed disposal pits are slightly mounded and in good condition. The covers of the possible trench disposal pits are in good condition, though water intermittently collects within the partially full trench pit.	It is recommended the partially filled possible trench disposal pit at AOC 650 be filled and capped with soil and that a permanent marker be placed at the AOC to identify the disposal pits. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	64B	65	3	PA AOCs NTTR, Decon Estimate	--
AOC 651	x-65-201	Ordnance	LG BP AREA(100X20yd) W/SMALL CALIBER MUNITIONS RESIDUE APPARENT ON SURFACE-POSSIBLY WASTE FROM NEARBY ABANDONED STRAFE PIT.APPROX 30 TGT VEHICLES SCATTERED ON HILLSIDE TO W AND SW	A site visit on July 8, 2001 identified a large area of disturbed soil (approximately 300 by 300- yard area) with scattered small arms munitions debris and inert bomb debris. One probable disposal pit was identified adjacent to the site. The vehicles and control tower stated to be located near the AOC were previously removed. A small amount of concrete material remains at the old tower site, several hundred yards south of the AOC. A magnetic locator survey throughout the area indicated no strong subsurface magnetic anomalies, though a scattering of debris in the area produced magnetic anomalies that interfered with the magnetic locator survey. A disposal pit likely exists at the south end of the AOC, adjacent to the site marker post. The disposal pit cannot be confirmed or dismissed because of abundant metal debris scattered across the site surface. The disturbed soil throughout the AOC is suspected to be the result of maintenance of an old strafe target adjacent to the AOC and/or from previous cleanup of the target area.	It is recommended that a permanent marker be placed at AOC 651 to identify the probable disposal pit.	64B	65	154	PA AOCs NTTR, Decon Estimate	--
AOC 652	x-65-202	Ordnance	SURFACE MUNITIONS RESIDUE (~50 CY) AND ABANDONED TGT VEHICLES (~20EA)	A site visit on July 8, 2001 identified a large area (approximately 450 by 450 yards) with abundant scattered munitions and target debris and confirmed the target vehicles were previously removed. Adjacent to the site marker post is a pile of old (WWII era) inert bombs with a few other munitions types observed at the pile. The munitions debris scattered throughout the area is comprised of a variety of munitions types including old (WWII era) inert bombs, more modern inert bombs, small-arms shell casing (.22 and .50 caliber) and 20 mm shell casing and rounds. There is evidence of numerous small surface burn piles scattered throughout the area. A magnetic locator survey of the area resulted in no magnetic anomalies detected. Evidence of disposal pits was not observed in the vicinity of the AOC.	AOC 652 does not fall under the authority of the current ERP. However, surface debris remaining at the site should be removed for proper disposal by the responsible program agency.	64B	65	41	PA AOCs NTTR, Decon Estimate	--
AOC 653		Ordnance	Munitions debris	A site visit on August 25, 2001 identified a small dormant storage area (approximately 3.5 by 4 by 3 yards) and confirmed the tires and utility poles were previously removed. The storage area is constructed of a metal truck camper shell covered with a wood frame roof. No debris was observed within the storage area. Munitions debris (expended 20 mm and 30 mm rounds) is scattered throughout the vicinity of the AOC. There is no evidence of disposal pits in the vicinity of the AOC. A magnetic locator survey resulted in -numerous small and shallow magnetic anomalies scattered throughout the vicinity of the AOC and a large magnetic anomaly at the storage area. These anomalies are from the abundant 20 mm and 30 mm rounds. No evidence of disposal pits was observed in the vicinity of the AOC.	AOC 653 was for NFA in the 1995 USAFWTC/EMR PA. This AOC does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	65 (2003)	65	--	PA AOCs NTTR	N/A
AOC 654	x-65-204	Ordnance	SUSPECTED BP AREA (15X75 yd). TWO DESTROYED TGT REFUELING TANKERS 50 YDS TO THE SOUTH	A site visit on August 25, 2001 confirmed the presence of a disposal pit (approximate surface area 15 by 75 yards) and confirmed the target tankers were previously removed. A small construction debris pile (wood, metal, concrete, cable, and paint cans) was identified adjacent to the disposal pit, with evidence the pile was burned. One old, empty 55-gallon drum was observed approximately 150 yards south of the disposal pit. No evidence of soil staining was observed in the probable location of the tankers and no odor or soil staining was observed in the vicinity of the drum. No soil staining was observed in area of the burn pile, except for a soil burn scar. Minor amounts of munitions debris are scattered in the AOC vicinity. The content of the disposal pit is unknown, but is suspected to contain construction debris including ferromagnetic materials (as determined with a magnetic locator). It is unknown if the disposal pit contains munitions debris or other types of debris. The disposal pit cover is slightly mounded and is in good condition.	It is recommended that a permanent marker be placed at AOC 654 to identify the disposal pit.	64C	65	0.3	PA AOCs NTTR, Decon Estimate	--

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 655	x-65-205	Ordnance	SUSPECTED BP AREA (30X30 yd). SURFACE GRADED. POSSIBLY OLD TFT PREP AREA. ANOTHER DISTURBED AREA (30X30 yd) DUE NORTH, ACROSS ROAD	A site visit on July 8, 2001 identified the areas of disturbed soil reported by Loral (1994a). Minor munitions and target debris is scattered in the area. Approximately 10 to 15 empty 55 gallon drums (no odor or soil stains) were observed scattered in the vicinity of the AOC. In this part of Range 65, several rows of empty drums, hundreds of yards long, were observed and are suspected to have been part of an old target complex in the area. The drums scattered in the vicinity of the site may have been part of a similar target complex. There is no indication of disposal pits at the AOC. A magnetic locator survey throughout the area indicated no strong subsurface magnetic anomalies. The AOC is suspected to be part of an old target complex or possibly an old target staging area, cleared of debris.	AOC 655 does not fall under the authority of the current ERP. However, drums and surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	64C	65	0.2	PA AOCs NTTR, Decon Estimate	--
AOC 656	x-65-206	Ordnance	TGT STAGING AREA (8 BATTLE TANKS W/DU EVIDENCE, 5 MISC TGT VEHICLES, ~500 CY OF METAL TGT DEBRIS)	A site visit on August 25, 2001 identified the site as an area of disturbed soil (approximately 150 yards in diameter) that likely was a target staging area and is now cleared of debris. A small amount of wood and metal target debris remains scattered in the area. Radiation monitoring resulted in no variation from background levels. There is no evidence of disposal pits at the AOC. A magnetic locator survey throughout the area indicated no subsurface magnetic anomalies.	AOC 656 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	64C	65	3.7	PA AOCs NTTR, Decon Estimate	--
AOC 657	x-65-207	Ordnance	ONE OPEN BP CONTAINS MUNITIONS, WOOD AND METAL (STORAGE TANKS) DEBRIS - APPROX 50 CY TOTAL	A site visit on August 25, 2001 confirmed the AOC is comprised of one open trench (approximately 8 by 100 by 15 feet) containing debris. At least 18 Mk-117 (750 lb.) inert bombs and at least 10 fluid storage tanks (metal tanks ranging in size from three feet in diameter by eight feet in length to 4 by 12). One of the landmarks is labeled "NO SMOKING WITHIN 50 FT" indicating it likely contained a flammable liquid at some time prior to disposal. The other tanks in the trench are of similar shape and size. All the storage tanks apparently were used as targets. They have numerous bullet holes in them. There was no apparent odor or soil staining observed around the storage tanks. The storage tanks were likely empty prior to being used as targets and later placed into the trench. There is no evidence of disposal pits at the AOC. A magnetic locator survey indicated no subsurface magnetic anomalies.	AOC 657 does not fall under the authority of the current ERP. However, the debris and storage tanks within the trench should be removed for proper disposal and the trench should be filled and capped with soil by the responsible program agency.	64C	65	0.3	PA AOCs NTTR, Decon Estimate	--
AOC 658	x-65-208	Ordnance	ABANDONED TGT OR TOWER SITE. SUSPECTED CONSTRUCTION BP WITHIN DISTURBED AREA	A site visit on August 25, 2001 confirmed the AOC likely is a former target tower area with some construction debris (wood, metal, cable, and concrete) remaining within an area of approximately 20 by 40 yards. Four old and empty 55-gallon drums were observed at the AOC. No evidence of soil staining was observed in the vicinity of the drums. A disposal pit is not suspected at the AOC. A magnetic locator survey resulted in no subsurface anomalies detected, except small and shallow anomalies likely from lightly covered surface debris.	AOC 658 does not fall under the authority of the current ERP. However, the drums and surface debris should be removed for proper disposal by the responsible program agency.	64C	65	17	PA AOCs NTTR, Decon Estimate	--
AOC 659		O&M	Two open disposal pits	A site visit on July 7, 2001 identified the AOC as a previous IRP site (IRP Site DP-36). A pink IRP concrete monument, with the site number, was observed at the AOC, adjacent to the orange fiberglass AOC marker. Site DP-36 was stated to be comprised of one open disposal pit with little evidence of debris. The site visit confirmed the presence of one open trench and one slightly mounded area of dirt that may be a natural feature. No disposal pits are indicated. A magnetic locator survey of the area resulted in no magnetic anomalies detected. Minor amounts of metal target debris were observed scattered in the area. There is no evidence of EOD operation at the AOC.	AOC 659 was previously addressed as IRP site DP-36, approved for NFA by the NDEP. The AOC does not fall under the authority of the current ERP. However, it is recommended the trench be filled and capped with soil by the responsible program agency.	64C	65	0.50	PA AOCs NTTR, Decon Estimate	N/A
AOC 710	x-71-200	O&M	POSSIBLE CRASH SITE: TURBINE ENGINE, METALLIC DEBRIS SCATTERED OVER 200 x 200 yd AREA	A site visit on July 23, 2001 identified the crash site and confirmed the turbine engine and metallic debris remain at the AOC. The metallic debris is comprised of aircraft materials. Two landing gear components were observed approximately two and one-half miles north of the AOC and are possibly parts of the same aircraft. No evidence of odor or soil staining was observed at the AOC. No subsurface magnetic anomalies were detected at the AOC. Evidence was observed to indicate the engine did not burn after impact.	AOC 710 is recommended for further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	71S	71	8	PA AOCs NTTR, Decon Estimate	ERP
AOC 740		O&M/ Ordnance	F-16 crash (1995), munition debris observed	On July 26, 2001 the site was located, but no debris or evidence of a crash was observed. Adjacent to the site marker post is an area of different vegetation (surface area approximately 20 yards by 40 yards) that appears to be a natural feature. Several pieces of rocket debris (aluminum body fragments and steel motor fragments) were observed in the vicinity. Three 20 mm rounds (expended) were observed. One old (WWII era) inert bomb and two pieces of old wood targets are in the vicinity, approximately 450 yards east of site.	No debris or evidence of a crash was observed at the site. AOC 740 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	74 (2003)	71	--	PA AOCs NTTR	N/A
AOC 742	x-74-202	Ordnance	TARGET RESIDUE PILE (~30 CY); NO EVIDENCE OF MUNITIONS RESIDUE	A site visit on July 25, 2001 identified a target vehicle debris pile (approximately 30 cubic yards total) comprised of approximately 15 tires, one vehicle frame, approximately six axles, and other metal vehicle scrap. Munitions debris was not observed, except one probable bomb drag chute and one spent .50 caliber shell casing. The vehicle components are from a large truck. A magnetic locator survey of the area surrounding the debris pile resulted in no magnetic anomalies detected. No evidence of disposal pits was observed.	AOC 742 does not fall under the authority of the current ERP. However, surface debris remaining at the site should be removed for proper disposal by the responsible program agency.	74C	71	--	PA AOCs NTTR, Decon Estimate	--
AOC 750	x-75-200	Ordnance	COVERED BPs, POSSIBLY 6EA (200x200); METAL AND WOOD DEBRIS	A site visit on August 24, 2001 identified three disposal pits and one open trench containing metal (target vehicle) and wood debris. The open trench is approximately four yards deep and one-half full of debris. Each disposal pit is approximately 10 by 25 yards surface area. The disposal pits are also suspected to contain target debris similar to the open trench. Minor amounts of munitions and target (metal and wood) debris is scattered throughout the area of the site. Several large bomb craters are located just south of the disposal pits. One crater contains a small amount of target debris. No evidence of past disposal of new unused vehicle parts was observed at the site. A magnetic locator survey at the AOC indicated strong subsurface magnetic anomalies. The covers of the disposal pits are slightly mounded and in good condition.	It is recommended that permanent markers be placed at AOC 750 to identify the disposal pits. Additionally, surface debris remaining in the open trench should be removed for proper disposal. The trench should then be filled and capped with soil by the responsible program agency.	75W	75	0.2	PA AOCs NTTR, Decon Estimate	N/A

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 751	x-75-201	O&M	POSSIBLE CRASH SITE; METAL DEBRIS (~20 CY) SCATTERED OVER 1/4 MILE STRETCH	A site visit on July 24, 2001 confirmed the AOC is the crash site of a folding-wing jet. A collection pile of large pieces of aircraft debris and other scattered aircraft debris remains at the site within an approximately 200-yard diameter area. No evidence of odor or soil staining was observed at the AOC. No subsurface magnetic anomalies were detected at the AOC. Evidence was observed to indicate the debris did not burn after impact.	AOC 751 is recommended for further AOC should be removed for proper disposal by the responsible program agency action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	75E	75	10	PA AOCs NTTR, Decon Estimate	ERP
AOC 752	x-75-202	Ordnance	POSTED MUNITIONS BPs (20x200 yd); EVIDENCE OF MUNITIONS RESIDUE	A site visit on August 24, 2001 identified one covered disposal pit approximately 10 by 20 yards in area and containing unknown materials. A munitions disposal pit sign was not observed, though a different sign was observed at the AOC. It read: "Danger — Air Force Installation Bombing Area — Keep Out". It is possible this sign was mistaken as a munitions disposal pit posting. Minor amounts of munitions debris are scattered in the area. No evidence of past disposal of new unused vehicle parts was observed at the AOC. A magnetic locator survey at the AOC indicated strong subsurface magnetic anomalies. The cover of the disposal pit is in good condition, except for several large animal burrows.	It is recommended the disposal pit cover should be repaired and a permanent marker be placed to identify the disposal pit.	75W	75	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 753	x-75-203	O&M	CRASH SITE; METAL DEBRIS (30-50 CY) SCATTERED OVER 1/2 MILE STRETCH	A site visit on July 25, 2001 confirmed the AOC is the crash site of a German F-4 (German markings on some pieces of debris). The AOC was mostly cleaned of debris, though a moderate amount of debris remains scattered throughout the approximately 450 to 900-yard long area. No evidence of odor or soil staining was observed at the site. No subsurface magnetic anomalies were detected at the AOC. Evidence was observed to indicate the remaining aircraft debris did not burn after impact.	AOC 753 is recommended for further action under the ERP. Collection of shallow subsurface soil samples from the AOC, to evaluate the possibility of contamination, is recommended. The samples should be analyzed for TEPH and VOCs. Additionally, surface debris remaining at the AOC should be removed for proper disposal by the responsible program agency.	75E	75	160	PA AOCs NTTR, Decon Estimate	ERP
AOC 754	x-75-204	Ordnance	COVERED BP (20x20 yd); SPENT TGT VEHICLES	On August the AOC was located by GPS and one covered disposal pit approximately 15 by 20 yards in area, was identified. A site marker post was not observed at the AOC. The spent target vehicles were previously removed. Minor amounts of metal target and munitions debris are scattered in the area of the AOC. The contents of the disposal pit are unknown, except that it contains ferromagnetic materials (as determined with a magnetic locator). The cover of the disposal pit is slightly mounded and is in good condition.	It is recommended that a permanent marker be placed at AOC 754 to identify the disposal pit.	75W	75	--	PA AOCs NTTR, Decon Estimate	N/A
AOC 760	x-76-200	Ordnance	SUSPECTED TGT/MUNITIONS RESIDUE BP (50x50yd). SMALL PIECES OF METAL SCRAP SCATTERED OVER SURFACE	A site visit on August 24, 2001 identified a large area of disturbed soil (approximately 25 by 100yard area) with munitions and target debris scattered throughout the vicinity of the AOC. Debris is scattered beyond the area of disturbed soil. Minor surface soil staining (no odor) was observed five yards north-northeast of the site marker post. The soil staining appears to be from surface burning but may be a natural feature (oxidation of iron — rust staining). The staining occurs within a small depression approximately one foot deep and approximately five yards in diameter. The presence of a disposal pit could not be verified or disproved from the site observations. A magnetic locator survey at the ADC indicated no strong subsurface magnetic anomalies. However, surface debris scattered throughout the area produced magnetic anomalies that interfered with the magnetic locator survey, effectively masking any possible subsurface anomalies that would indicate a disposal pit. A disposal pit is not suspected, however the possibility of a disposal pit cannot be dismissed. The disposal pit cover, if present, is in good condition.	It is recommended that a permanent marker be placed at AOC 760 to identify the probable disposal pit.	76	76	0.5	PA AOCs NTTR, Decon Estimate	N/A
AOC 761	OT-49			A site visit on July 23, 2001 identified the site as a previous IRP site (IRP Site OT-49). A pink concrete IRP monument, with the site number, was observed at the site, adjacent to the orange fiberglass AOC marker. The concrete IRP monument indicates this site was previously assessed. On May 8, 1994, Dames & Moore collected three surface soil samples from the IRP site. The samples were collected adjacent to scrap piles and were analyzed for PP metals, TEPH, and TNT. Immunossay tests for TEPH and TNT were non-detect for all three samples. The PP metals tests detected low concentrations of various metals in the three surface soil samples, including Arsenic (S 4 mg/kg), Beryllium (S 0.91 mg/kg), Chromium (S 13 mg/kg), Mercury (S 0.048 mg/kg), Nickel (S 12 mg/kg), Lead (S 10 mg/kg), and Zinc (S 44 mg/kg) (D&M, 1995). Dames & Moore concluded the concentrations of metals in the samples were representative of background and there was no significant environmental impact from the site. Dames & Moore recommended no further investigation and no remedial action for the site. A Decision Document (D&M, 1995) recommending NFA for site OT-49 was submitted by Nellis AFB and signed by the NDEP. The site visit confirmed the site surface (approximately 50 yards in diameter) was mostly cleaned of debris. Minor wood and metal target debris and munitions debris (shrapnel) remain scattered at the AOC. Evidence of surface burning was observed. No evidence of disposal pits was observed. No subsurface magnetic anomalies were detected.	AOC 761 was previously sampled during the IRP SI. Sample results indicated no environmental contamination at the site. The IRP SI recommended NFA at the site and a 1995 Decision Document recommended the site be removed from further IRP consideration. This PA concludes AOC 761 does not fall under the authority of the current ERP. At the date of the site visit, additional activities are not required at the AOC.	76	76	0.4	PA AOCs NTTR, Decon Estimate	ERP
AOC 762	x-76-202	Ordnance	PARTIALLY COVERED TGT BP (10x20 yd) NEAR TGT 7608	A site visit on August 24, 2001 identified a small disposal pit (approximately 10 by 20 yards in area) adjacent to an active live and inert ordnance target (target 76-08), on a hillside above the target area. Munitions and target debris were observed scattered throughout the vicinity of the disposal pit and target area. The contents of the disposal pit include ferromagnetic materials (as determined with a magnetic locator) and are suspected to be comprised of target debris. The cover of the disposal pit is slightly depressed and intermittently collects water following storm.	It is recommended that a permanent marker be placed at AOC 762 to identify the disposal pit.	76	76	--	PA AOCs NTTR, Decon Estimate	N/A

Site ID	Other ID(s)	Category	Pre-Assessment Description*	Assessment Description	Recommendations	Current Location	Assessment Location	Area (acres)	Documentation	Add. Program
AOC 763	x-76-203	Ordnance	METAL SCRAP (10 CY); BP SUSPECTED	A site visit on August 24, 2001 identified an area of disturbed soil (surface area approximately 15 by 30 yards) with minor scattered munitions and target debris. The AOC is a possible disposal pit or it may be a cleaned scrap pile. The presence of a disposal pit could not be verified from the site observations. A magnetic locator survey at the AOC indicated no strong subsurface magnetic anomalies. However, surface debris scattered throughout the area produced magnetic anomalies that interfered with the magnetic locator survey. A disposal pit is not suspected, however the possibility of a disposal pit cannot be dismissed. The disposal pit cover, if present, is in good condition.	It is recommended that a permanent marker be placed at AOC 763 to identify the probable disposal pit.	76	76	0.1	PA AOCs NTTR, Decon Estimate	N/A
AOC 764	x-76-204	Ordnance	COVERED BPs (100x150 yd); EVIDENCE OF METAL SCRAP AND MUNITIONS RESIDUE. POSSIBLY 3 BPs	On August 24, 2001 the AOC was located by GPS. A site marker was not located at the coordinates provided as part of the background information. However, the AOC described here is believed to be the correct site location because it was located within 900 yards of the provided coordinates and closely matches the site description from the interviews. A site marker was not observed at the AOC described in this report. Six open trenches, one partially covered trench, and three covered trenches were identified. Surface debris is lacking from within the margins of the trenches. All trenches have surface dimensions of approximately 5 by 15 yards, and the open trenches are approximately 2 yards deep. Minor munitions debris (shrapnel) is scattered in the area. Numerous bomb craters were observed throughout the area of the AOC. A magnetic locator survey was conducted at the AOC and subsurface magnetic anomalies were not identified within the margins of any of the open or covered trenches, suggesting there are no buried ferromagnetic materials in the trenches. The possibility of buried non-ferromagnetic materials remains. The three covered trenches are probable disposal pits.	It is recommended that a permanent marker be placed at AOC 764 to identify the probable disposal pits.	75W	76	0.1	PA AOCs NTTR	N/A

Blue: Aircraft Mishap **Green:** Site Investigation (Soil Testing)
Orange: Surface Debris Removal **Yellow:** Repair Cover/Fill and Cap
Pink: Place Permanent Marker **Grey:** Still Active/In Active Location
White: No Recommended Action **Purple:** Not Located
Brown: No Evidence of Site Found

*Preliminary descriptions in all capital letters were taken from a shapefile documenting potential remediation sites. Descriptions in lower case were summaries derived from the body of the report, "Preliminary Assessment Report: Nellis Air Force Base, Nevada Test and Training Range, Areas of Concern", February 2003.

NOTE: Sites may have recommendations in more than one category. See Areas of Concern: Summary for details.

**APPENDIX K – HAZARDOUS MATERIAL SITE GROUPINGS FROM THE NTTR
DECONTAMINATION ESTIMATE**

Hazardous Material Site Groupings from NTTR Decontamination Estimate

(Bay West 2009)

Hazardous Material Site Groupings

Decontamination Estimate
Nevada Test and Training Range

SITE NAME	AKA or AOC ID	LOCATION	Munitions Pits/Piles < 1 Acre in Size	Munitions Pits/Piles > 1 and < 5 Acre	Munitions Pits/Piles > 5 Acre in Size	Fuel & Oil Sites	NonHazardous Waste Sites	Hazardous Waste Sites	Landfills	Crash Sites	Research Parts Disposal Pits	Demolition Debris Sites	Septic Tank and Leachfield Sites	Acid Neutralization Basins	Pesticide & Herbicide Sites	Drum Storage
Ella Mountain		70 Series Ranges				x										
Highland Peak		70 Series Ranges				x										
Mt. Irish		70 Series Ranges				x										
x-71-200	AOC 710	70 Series Ranges								x						
x-74-201	AOC 741 (assumed)	70 Series Ranges		x												
x-74-202	AOC 742	70 Series Ranges	x													
x-75-200	AOC 750	70 Series Ranges			x											
x-75-201	AOC 751	70 Series Ranges								x						
x-75-202	AOC 752	70 Series Ranges	x													
x-75-203	AOC 753	70 Series Ranges								x						
x-75-204	AOC 754	70 Series Ranges	x													
x-76-200	AOC 760	70 Series Ranges	x													
x-76-202	AOC 762	70 Series Ranges	x													
x-76-203	AOC 763	70 Series Ranges	x													
x-76-204	AOC 764	70 Series Ranges	x													
Asphalt Debris Pile (North)		Creech AFB					x									
Asphalt Debris Pile (West)		Creech AFB					x									
DP-03	DP-62-03 DP-43 IS-3	Creech AFB					x									
Former Drum Storage Rack		Creech AFB														x
FT-05	FT-45	Creech AFB				x										
G/O Sand interceptors		Creech AFB				x										
Grease Traps Bldgs. 71 & 96		Creech AFB				x										
HWIAP Bldgs 225, 226, 265, 267		Creech AFB						x								
LF-10	LF-34	Creech AFB							x							
O/W S Bldgs 115, 225, 227		Creech AFB				x										
OT-08	OT-48	Creech AFB	x													
OT-09	OT-49 IS-09	Creech AFB	x													
OT-11	OT-35	Creech AFB		x												
OT-12	OT-55	Creech AFB		x												
SD-04	SD-44 WP-44, IS=04	Creech AFB				x										
SD-13	SD-56	Creech AFB				x										

Hazardous Material Site Groupings

Decontamination Estimate
Nevada Test and Training Range

SITE NAME	AKA or AOC ID	LOCATION	Munitions Pits/Piles < 1 Acre in Size	Munitions Pits/Piles > 1 and < 5 Acre	Munitions Pits/Piles > 5 Acre in Size	Fuel & Oil Sites	NonHazardous Waste Sites	Hazardous Waste Sites	Landfills	Crash Sites	Research Parts Disposal Pits	Demolition Debris Sites	Septic Tank and Leachfield Sites	Acid Neutralization Basins	Pesticide & Herbicide Sites	Drum Storage
Septic Tank/Leach Fields Bldg 127, Fac 1, Fac 8		Creech AFB											x (3)			
SS-07	SS-47 IS-7	Creech AFB				x										
Suspected ACM Tiles		Creech AFB										x				
LF-01	LF-41	Creech AFB, eastern boundary							x							
LF-02	LF-42	Creech AFB, NE Quadrant							x							
Aboveground Tank Farm		Point Bravo				x										
Former Drum Storage (three locations)		Point Bravo														x
G/O Sand interceptors		Point Bravo				x										
HWAP		Point Bravo						x								
HWIAP		Point Bravo						x								
Septic Tank/Leach Fields		Point Bravo											x (2)			
DP/OT-12	DP/OT-63-13 AOC 639	Range		x												
DP/OT-19	DP/OT-63-20	Range		x												
DP/OT-20	DP/OT-63-21	Range		x												
DP-03	OT-62-03	Range					x									
DP-07	DP-62-07	Range	x													
DP-08	DP-63-08	Range	x													
DP-14	DP-63-15	Range					x									
DP-21	DP-63-22	Range					x									
DP-23	DP-63B-24	Range					x									
DP-30	DP-64S-32	Range	x													
DP-32	DP-65N-34	Range	x													
DP-35	DP-65S-37	Range	x													
DP-36	DP-65S-38	Range	x													
DP-39	DP-65S-41	Range		x												
DP-41	DP-71-44	Range		x												
DP-53	DP-TP-58	Range					x									
DP-58	DP-ECE-65	Range					x									
DP-59	DP-ECE-66	Range					x									
DP-64	DP-74-73	Range	x													
DP-65	DP-74-74	Range	x													
DP-66	DP-74-76	Range	x													
LF/DP-24	LF/DP-63A-26	Range							x							
OT/DP-38	OT/DP-65S-40	Range			x											
OT/DP-67	OT/DP-74-77	Range	x													
OT-01	OT-61-01	Range	x													

Hazardous Material Site Groupings

Decontamination Estimate Nevada Test and Training Range

SITE NAME	AKA or AOC ID	LOCATION	Munitions Pits/Piles < 1 Acre in Size	Munitions Pits/Piles > 1 and < 5 Acre	Munitions Pits/Piles > 5 Acre in Size	Fuel & Oil Sites	NonHazardous Waste Sites	Hazardous Waste Sites	Landfills	Crash Sites	Research Parts Disposal Pits	Demolition Debris Sites	Septic Tank and Leachfield Sites	Acid Neutralization Basins	Pesticide & Herbicide Sites	Drum Storage
OT-02	OT-62-02	Range		x												
OT-04	OT-62-04 x-62-210 AOC 210	Range		x												
OT-05	OT-62-05	Range		x												
OT-06	OT-62-06	Range		x												
OT-09	OT-63-09	Range	x													
OT-10	OT-63-10	Range	x													
OT-11	OT-63-11	Range	x													
OT-13	OT-63-14	Range	x													
OT-15	OT-63-16	Range	x													
OT-16	OT-63-17	Range		x												
OT-17	OT-63-18	Range	x													
OT-18	OT-63-19	Range	x													
OT-22	OT-63-23	Range	x													
OT-25	OT-64S-27 AOC 648	Range		x												
OT-26	OT-64S-28	Range		x												
OT-27	OT-64S-29	Range	x													
OT-28	OT-64S-30	Range	x													
OT-29	OT-64S-31 Possibly AOC 642	Range	x													
OT-33	OT-65S-35	Range		x												
OT-34	OT-65S-36	Range		x												
OT-37	OT-65S-39	Range		x												
OT-40	OT-71-43	Range	x													
OT-42	OT-71-45	Range	x													
OT-43	OT-71-46	Range		x												
OT-44	OT-76-47	Range	x													
OT-45	OT-76-49	Range	x													
OT-46	OT-76-51	Range	x													
OT-47	OT-76-52	Range	x													
OT-48	OT-76-53	Range	x													
OT-49	OT-76-54	Range	x													
OT-50	OT-76-55	Range	x													
OT-51	OT-76-56	Range	x													
OT-52	OT-TP-57	Range					x									
OT-55	OT-75-61	Range	x													
OT-56	OT-75-62	Range		x												
OT-57	OT-75-63	Range	x													
OT-60	OT-ECW-69	Range					x									
OT-61	OT-ECW-70	Range					x									
OT-62	OT-74-71	Range		x												

Hazardous Material Site Groupings

Decontamination Estimate
Nevada Test and Training Range

SITE NAME	AKA or AOC ID	LOCATION	Munitions Pits/Piles < 1 Acre in Size	Munitions Pits/Piles > 1 and < 5 Acre	Munitions Pits/Piles > 5 Acre in Size	Fuel & Oil Sites	NonHazardous Waste Sites	Hazardous Waste Sites	Landfills	Crash Sites	Research Parts Disposal Pits	Demolition Debris Sites	Septic Tank and Leachfield Sites	Acid Neutralization Basins	Pesticide & Herbicide Sites	Drum Storage
OT-63	OT-74-72	Range	x													
OT-68	OT-74-78	Range	x													
ST-31	ST-65N-33	Range				x										
ST-54	ST-TP-60	Range				x										
Scattered Target Debris Area		Range 61, 62, 64	x													
x-61-200	AOC 610	Range 61, 62, 64	x													
x-62-200	AOC 620	Range 61, 62, 64		x												
x-62-201	AOC 621	Range 61, 62, 64	x													
x-62-202	AOC 622	Range 61, 62, 64		x												
x-62-203	AOC 623	Range 61, 62, 64					x									
x-62-204	AOC 624	Range 61, 62, 64		x												
x-62-205	AOC 625	Range 61, 62, 64		x												
x-62-206	AOC 626	Range 61, 62, 64	x													
x-62-207	AOC 627	Range 61, 62, 64	x													
x-62-208	AOC 628	Range 61, 62, 64		x												
x-62-209	AOC 629	Range 61, 62, 64	x													
x-64-200	AOC 640	Range 61, 62, 64		x												
x-64-201	AOC 641	Range 61, 62, 64	x													
x-64-202	AOC 642 Possibly OT-64S-31	Range 61, 62, 64	x													
x-64-203		Range 61, 62, 64	x													
x-64-204		Range 61, 62, 64	x													
x-64-205	AOC 411	Range 61, 62, 64	x													
x-64-206	AOC 646	Range 61, 62, 64		x												
x-64-207	AOC 647	Range 61, 62, 64	x													
x-64-209	AOC 649	Range 61, 62, 64	x													
x-64-210	AOC 410	Range 61, 62, 64	x													
x-64-211		Range 61, 62, 64	x													
Borrow Pit		Range 63					x									
Center Tower		Range 63				x										
CINE-1		Range 63				x										
CINE-10		Range 63				x										
CINE-11		Range 63				x										
CINE-12		Range 63				x										
CINE-2		Range 63				x										
CINE-3		Range 63				x										
CINE-4		Range 63				x										
CINE-5		Range 63				x										
CINE-6		Range 63				x										
CINE-7		Range 63				x										
CINE-8		Range 63				x										
CINE-9		Range 63				x										

Hazardous Material Site Groupings

Decontamination Estimate
Nevada Test and Training Range

SITE NAME	AKA or AOC ID	LOCATION	Munitions Pits/Piles < 1 Acre in Size	Munitions Pits/Piles > 1 and < 5 Acre	Munitions Pits/Piles > 5 Acre in Size	Fuel & Oil Sites	NonHazardous Waste Sites	Hazardous Waste Sites	Landfills	Crash Sites	Research Parts Disposal Pits	Demolition Debris Sites	Septic Tank and Leachfield Sites	Acid Neutralization Basins	Pesticide & Herbicide Sites	Drum Storage
East Tower		Range 63				x										
KTM-1		Range 63				x										
KTM-2		Range 63				x										
KTM-3		Range 63				x										
KTM-4		Range 63				x										
KTM-5		Range 63				x										
KTM-6		Range 63				x										
South Tower		Range 63				x										
West TV Tower		Range 63				x										
x-63-200	AOC 630	Range 63	x													
x-63-201	AOC 631	Range 63	x													
x-63-202	AOC 632	Range 63	x													
x-63-203		Range 63	x													
x-63-204	AOC 634	Range 63		x												
x-63-205	AOC 635	Range 63	x													
x-63-206		Range 63	x													
x-63-207	AOC 637	Range 63	x													
x-63-208	AOC 638	Range 63		x												
x-63-210	AOC 633	Range 63		x												
x-63-211		Range 63		x												
Fuel Storage Bldg		Range 63A				x										
HWIAP		Range 63A						x								
Newsome and Seay Halls		Range 63A						x								
Range Storage Yard		Range 63A						x								
Rifle Bore Cleaner Storage Shed		Range 63A						x								
Septic Tank/Leach Fields		Range 63A											x (2)			
Small Arms and Weapons Ranges		Range 63A	x													
1940's Target Vehicle Debris Area		Range 65			x											
Abandoned Strafe Pits		Range 65	x													
ACM Debris Pile		Range 65										x				
Beacon Hill		Range 65										x				
Checkerboard Building		Range 65										x				
FAC Hill		Range 65				x										
Gravel Pit		Range 65				x										
Mile Range Staging Area		Range 65				x										
M-Series Target Debris Area		Range 65			x											
Old Tank Table Target Debris Pile		Range 65			x											

Hazardous Material Site Groupings

Decontamination Estimate
Nevada Test and Training Range

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x-65-200	AOC 650	Range 65		x												
x-65-201	AOC 651	Range 65		x												
x-65-202	AOC 652	Range 65	x													
x-65-203	AOC 653	Range 65										x				
x-65-204	AOC 654	Range 65	x													
x-65-205	AOC 655	Range 65	x													
x-65-206	AOC 656	Range 65		x												
x-65-207	AOC 657	Range 65	x													
x-65-208	AOC 658	Range 65	x													
x-65-210	AOC 403	Range 65		x												
x-65-211	AOC 511 Adjacent to OT/DP-38	Range 65		x												
x-65-213	AOC 513	Range 65								x						
x-65-214	AOC 514	Range 65	x													
x-65-215	AOC 515	Range 65	x													
CE Yard		TECR O&M compound						x								
G/O Sand interceptors		TECR O&M compound				x										
HWAP		TECR O&M compound						x								
HWIAP		TECR O&M compound						x								
NHWAP		TECR O&M compound					x									
Antelope Springs		Tonopah EC Range				x										
Cedar Peak		Tonopah EC Range				x										
Electronic Countermeasures Sites		Tonopah EC Range				x										
Range 74 TDSY		Tonopah EC Range		x												
Range 75 TDSY		Tonopah EC Range		x												
x-ECW-200	AOC 200	Tonopah EC Range								x						
x-ECW-201	AOC 201	Tonopah EC Range								x						
x-ECW-202	AOC 202	Tonopah EC Range								x						
x-ECW-203	AOC 203	Tonopah EC Range								x						
x-ECW-204	AOC 204	Tonopah EC Range		x												
	AOC 207	Tonopah EC Range		x												
	AOC 208	Tonopah EC Range		x												
	AOC 209	Tonopah EC Range		x												
	AOC 213	Tonopah EC Range				x										
Asphalt Pile		TPECR					x									
Digital M/W		TPECR				x										
G/O Sand interceptors		TPECR				x										
Generator Storage Yard		TPECR				x										
TPECR Guard Shack		TPECR				x										
Vehicle Leak/Spill Area		TPECR				x										
DP-06	ST-TTR-85	TTR									x					

Hazardous Material Site Groupings

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DP-07	ST-TTR-86	TTR									x					
FT-13	FT-TTR-94	TTR				x										
LF-09	LF-TTR-88	TTR							x							
OT-01	OT-TTR-79	TTR				x										
OT-04	OT-TTR-82	TTR					x									
OT-10	OT-TTR-89	TTR					x									
OT-11	OT-TTR-92	TTR					x									
SD-03	SD-TTR-81	TTR				x										
SD-08	SD-TTR-87	TTR				x										
SD-14	SD-TTR-95	TTR				x										
SD-15	SD-TTR-96	TTR				x										
SD-16	SD-TTR-97	TTR				x										
SD-17	SD-TTR-98	TTR				x										
SS-12	SS-TTR-93	TTR				x										
ST-05	SS-TT-83	TTR				x										
WP-02	WP-TTR-80	TTR				x										
Acid Neutral. Basin Bldg 143		TTR Area 10												x		
Acid Neutral. Basin Bldg 249 (Batt. Shop)		TTR Area 10												x		
Acid Neutral. Basin Bldg 249 (W/T Shop)		TTR Area 10												x		
Acid Neutral. Basin Bldg 536		TTR Area 10												x		
Concrete Batch Plant		TTR Area 10														x
Drum Storage - REECO Open Storage Yard		TTR Area 10														x
HWAP Bldg 548		TTR Area 10						x								
HWIAPs		TTR Area 10						x								
Oil Water Separator Bldg 364		TTR Area 10				x										
Oil Water Separators		TTR Area 10				x										
P/H Storage Bldg 543, 546		TTR Area 10													x (2)	
Steam-Clean Pad Bldg 543		TTR Area 10													x	
USTs		TTR Area 10				x (102)										
Waste Storage Tank Bldg 142		TTR Area 10						x								
Waste Storage Tank Bldg 493		TTR Area 10				x										
Waste Storage Tank Bldg 536		TTR Area 10				x										
Number of Sites			76	43	5	167	20	13	5	8	2	5	7	4	3	4