

**U.S. DEPARTMENT OF ENERGY  
NATIONAL NUCLEAR SECURITY ADMINISTRATION  
NEVADA SITE OFFICE**

**ORDER**

**NSO O 412.X1E**

**Approved: 09-11-09  
Review Date: 09-11-13**

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**REAL ESTATE/OPERATIONS PERMIT**

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**INITIATED BY:  
Office of the Assistant Manager  
for Safety and Operations**



## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

1

1. OBJECTIVE. The objective of the Real Estate/Operations Permit (REOP) process is to ensure work performed on the Nevada Test Site (NTS) or offsite, under the control of the National Nuclear Security Administration (NNSA) Nevada Site Office (NNSA/NSO), is well defined; has well-defined geographical boundaries; has identified the hazards; has established and implemented controls to mitigate those hazards; is properly authorized; and is effectively managed.
2. CANCELLATION. NSO M 412.X-1D, REAL ESTATE/OPERATIONS PERMIT, dated 5-23-06.
3. BACKGROUND.
  - a. The REOP process was established to provide effective management of NNSA/NSO real property assets and operations.
  - b. The REOP process complements and supports NNSA/NSO's:
    - (1) Review and approval of all work performed under the purview of NNSA/NSO.
    - (2) Approach to establishing line management responsibility for safety.
    - (3) Identifying risk and hazards associated with work activities.
4. APPLICABILITY.
  - a. The provisions of this directive apply to all NNSA/NSO organizational elements.
  - b. Contractors, National Laboratories, other federal agencies, and other user organizations requirements are contained in the Contractor Requirements Document (CRD), Attachment 1. Compliance with the CRD is required to the extent set forth in an NNSA/NSO contract or other agreements, (e.g., Authorization Agreements, etc).
5. EXCLUSION. Classified, Unclassified Controlled Nuclear Information (UCNI), and Official Use Only (OUO) information associated with projects is excluded from the requirements for information input to the Management and Operating (M&O) contractor's web-linked database. REOPs will be developed and input into the M&O contractor web-linked database for projects utilizing unclassified information. NNSA/NSO REOP Managers will maintain classified, UCNI, and OUO information concerning these REOPs in a limited access file.

6. REQUIREMENTS.a. General.

- (1) An approved REOP is the NNSA/NSO authorization to conduct work or operations within the specified facility/real estate.
- (2) NNSA/NSO prime contractors, the Joint Nevada Program Office (JNPO), and other organizations designated by the NNSA/NSO Manager may hold primary REOPs. Where there are multiple organizations working in the same facility/real estate, only one will hold the primary REOP and the others will hold a secondary REOP. Only one primary REOP can be issued to cover any defined geographical area. The primary REOP safety envelope is a living document, expanding and contracting as the Scope of Work (SOW) at the location changes. The safety envelope of the primary REOP is considered the summation of the approved primary and secondary REOPs as a single entity.
- (3) Secondary REOPs are a mechanism used to authorize additional and separable work scope on real estate assigned to a REOP holder. This augments the primary REOP for the time and scope specified in the secondary REOP, and together with the primary REOP, comprises the total REOP Authorization Basis (AB). Multiple secondary REOPs can be processed for a single primary REOP; in such cases, the combined basis of authorization of the primary and secondary REOP(s) then comprise the total REOP. However, the activities of secondary REOPs must fall within the overall range of conditions and controls covered in specific safety documentation (e.g., safety envelope) of the primary REOPs.
  - The REOP requires an organization to identify a single Point of Contact (POC), the REOP holder, responsible for safety coordination and deconfliction of primary and secondary activities.
- (4) Any organization performing work under the purview of NNSA/NSO may hold a secondary REOP.
- (5) A secondary REOP requires review and concurrence by the applicable primary REOP holder to ensure:
  - (a) SOW is well defined, including geographical boundaries and identified hazards.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

3

- (b) Controls have been established to mitigate the identified hazards.
  - (c) The safety envelope of the primary REOP is not exceeded by the activities of the secondary REOP.
- (6) All REOPs will be assigned an NNSA/NSO REOP Manager (with the exception of those held by and under the control of Department of Energy (DOE) Office of Civilian Radioactive Waste Management [OCRWM]).
- (7) All new work, proposed changes to work, and newly identified risks/hazards not covered by an existing REOP must be analyzed in accordance with CRD, Section 1a(2), of this directive.
- (8) The following will be maintained current and accurate:
- (a) NNSA/NSO REOP and Page A-1, Subpart A, Real Property Identification.
  - (b) Subpart B, NTS Activity Coordination.
  - (c) Subpart C, Risk Management Checklist (RMC). All AB documents are to be listed on Page C-1 (e.g., Regulatory Requirements, Safety Analysis, Permits, Hazard Assessments, Operational Requirements, and Safety Basis [SB]).
- (9) Overall safety coordination and deconfliction responsibilities are maintained by the primary REOP holder.
- (10) Primary and secondary REOP holders are responsible to provide assurance that the requirements and implementing documents of participating organizations are sufficiently integrated to avoid adverse consequences.
- (11) Primary REOP holders ensure each organization is prepared to take appropriate emergency response actions to protect people and the environment, in accordance with the approved SB of the secondary REOP.
- (12) All NTS operations require M&O contractor Operations Coordination Center (OCC) coordination with the primary REOP holder; OCC must be notified at least 14 calendar days prior to ground operations and 45 days prior to ground operations requiring air space. The above timeline is

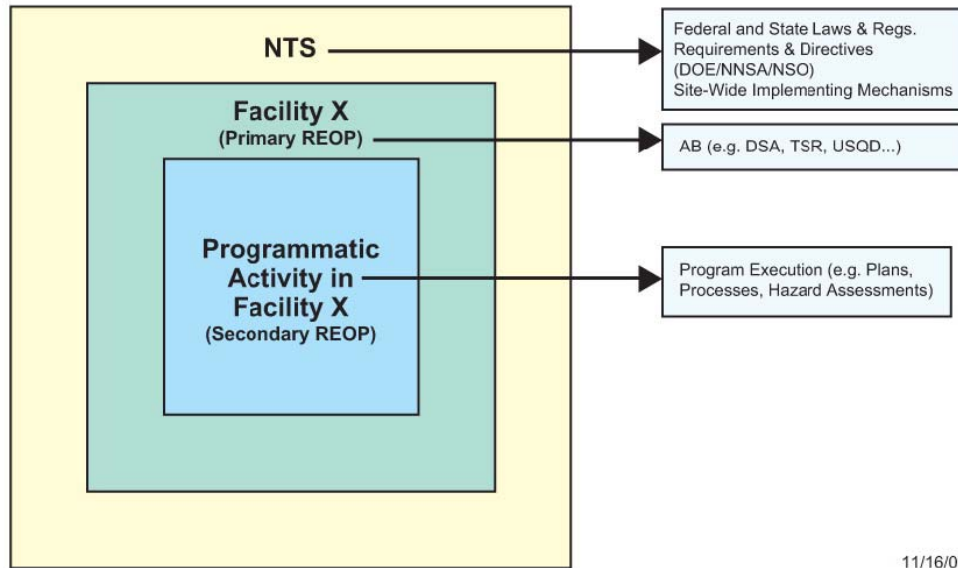
associated with OCC scheduling requirements for air space, and failure to meet it may preclude mission execution for the times requested. OCC must also be notified upon completion of operations.

- (13) Operations involving hazardous materials transportation will be entered into the Hazardous Material Tracking System by the responsible REOP holder.
- (14) All hazardous materials (e.g., chemicals, explosives, etc.) and any hazardous waste generated is the responsibility of the REOP holder who used or generated it and must be removed and properly disposed upon completion of the work.
- (15) All real estate locations will be activated and deactivated in accordance with the M&O contractor real estate activation/deactivation procedure unless other agreements are established with NNSA/NSO.
- (16) Any REOP may be rescinded for cause in writing by NNSA/NSO.

b. Nevada Facility User Model.

- (1) Purpose. Establish NTS vision for the “user facility” concept in which users continue to perform hands-on programmatic work on their activities/experiments within National Security Technologies, LLC (NSTec)-managed facilities utilizing the REOP process.
- (2) Background. The DOE/NNSA has directed that laboratory-managed NNSA/NSO facilities be turned over to the M&O. This describes the “end state” and roles and responsibilities of implementing that objective. It describes how the laboratories will be able to continue to use the NTS for work, including high hazard experiments.
- (3) Vision. NNSA/NSO, JNPO, and NSTec agree that the current model for authorizing activities at the NTS, the REOP process, is the basis for the envisioned user model. This is a two-tiered system where the primary REOP holder is the facility manager and has responsibility for the authorization basis for the facility, including activities and operations. The secondary REOP is used to authorize programmatic work and assign safety responsibility at the activity level. NNSA/NSO approves activities on both the primary and secondary REOPs. This is depicted in the following diagram of nested boxes.

### User Facility Model



- (4) For Hazard Category (HazCat) 2/3 nuclear facilities, the M&O contractor will ensure compliance with and implementation of the SB requirements of Subpart B of Title 10 Code of Federal Regulation (CFR), Part 830. Therefore, the M&O contractor will be responsible for developing the SB for NTS nuclear facilities, including activities and operations. Implementation of specific SB controls and programs will be clearly delineated in the primary and secondary REOPs.
- (5) For less than HazCat 3 and nonnuclear facilities, a similar process will be used with the primary REOP holder responsible for the development of authorization basis. Implementation of specific AB controls and programs will be clearly delineated in the primary and secondary REOPs.
- (6) Activity-level work is best known and understood by user Subject Matter Experts (SME) and those performing the work. When user activity-level work is proposed within an M&O-managed nuclear facility (HazCat 2/3), user SMEs will provide activity-specific data as appropriate. The M&O will then perform an Unreviewed Safety Question (USQ) evaluation to determine if the work is bound by the existing Documented Safety Analysis (DSA). If a change in the existing safety analysis is required,

user SMEs will provide activity-specific data necessary to support hazard identification, categorization, and evaluation. Subsequently, the M&O contractor will revise the DSA and develop any additional Technical Safety Requirements (TSR). Likewise, if a new DSA is required, User SMEs will provide the requisite activity-specific data necessary to support DSA and TSR development. At a minimum, users will develop their own activity-specific implementing procedures and mechanisms to ensure compliance with the TSRs.

- (7) Work at the activity level within <HazCat3 and nonnuclear facilities or processes will be implemented similarly, although graded appropriately, using a USQ-like process to integrate activity-level work into the authorization basis. The facilities to which this applies are the Big Explosives Experimental Facility/Baker, RNC TEC, and U1a Complex. For other facilities, the REOP process alone is adequate.
- (8) The above discussion applies to the end state process, but there are issues associated with the transition from the current state. There are several SB efforts already underway and it is not practical to hand off work products in their intermediate states. Each nuclear facility SB will be evaluated independently and specific strategies will be developed with a focus on continuity of operations and easily discernable turnover points.
- (9) The primary REOP holder serves as the design authority for the facility, including the programmatic equipment interface to the facility. The M&O contractor will be responsible for capturing and maintaining credited structures, systems, and components in the Master Equipment List (MEL) under configuration management, as delineated in REOPs.
- (10) The secondary REOP holder serves as the design authority for programmatic equipment and is responsible for providing information on credited structures, systems, and components to the M&O contractor. Users are responsible for maintaining programmatic equipment and the MEL for programmatic equipment in accordance with the DSA.
- (11) The facility operator staffs to the mission-capable level; the user is responsible for trained and qualified staff to support programmatic operations.
- (12) Corrective Action Planning and tracking will follow REOP process roles and responsibilities.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

7

- (13) Following transition, the M&O will develop and implement, with users' concurrence, NTS site-wide Safety Management Programs (SMP) in accordance with 10 CFR 830. These SMPs will ensure efficient and consistent implementation of specific characteristics necessary to ensure facility safety as credited in the DSA.

c. REOP Review and Approval.

- (1) The REOP holder will submit the completed RMC Control Documentation (NSO-123C, Attachment 2, page 9) with a new REOP or an updated RMC (Attachment 3) to an existing REOP to the M&O contractor, Facilities Oversight, Real Estate Services, Mail Stop NTS251.
- (2) All new work, proposed changes to work, and newly identified risks/hazards not covered by an existing REOP will be evaluated in accordance with the NNSA/NSO RMC, Attachment 3. Each REOP holder will be responsible for completing the RMC for all new work, proposed changes to work, or newly identified risks/hazards not covered by an existing REOP.
- (3) DOE OCRWM does not perform NNSA/NSO-related mission work, and their Environment, Safety, and Health oversight is not the responsibility of NNSA/NSO under the Atomic Energy Act. The REOP limited scope and deconfliction review will be performed by the Office of the Assistant Manager (AM) for Safety and Operations (AMSO). AMSO will evaluate and concur on the REOPs based on the following criteria:
  - (a) The proposed work scope; sufficient to define the work being conducted.
  - (b) Potential impacts on NNSA/NSO personnel, operations, and the NTS environment; and infrastructure support (e.g., power, water, and roads) will be evaluated.
  - (c) Potential impacts of NNSA/NSO operations on the REOP holder's work for non-NNSA related projects will be evaluated.
- (4) Issues that cannot be resolved between the REOP holder and the REOP Manager go to the NNSA/NSO Manager for final resolution.

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- (5) All comments by reviewers and resolution of comments will be documented in writing by electronic mail or on Form NSO-284, COMMENT AND RESOLUTION SHEET, available through the NNSA/NSO INTRANET FORMS website or equivalent.
  - (6) NNSA/NSO approval authority, based on the RMC in Attachment 2, is as follows:
    - (a) The NNSA/NSO Manager, if a Readiness Review (RR) action is required.
    - (b) The responsible AM, if any criteria of Subpart C, RMC, are met or exceeded, and no higher-level actions are required.
    - (c) Only the NNSA/NSO REOP Manager when none of the RMC criteria have been met or exceeded.
  - (7) The NNSA/NSO REOP Manager will sign all REOPs, indicating concurrence and certifying that the REOP process has been followed, after the RMC is completed and comments have been resolved.
- d. Records. The scanned approved REOP will be maintained by the M&O contractor. Electronic access to copies of all REOPs will be made available on the M&O contractor intranet REOP tracking database (e.g., Facility Data Warehouse).
  - e. Start Work. Work may begin after all approval conditions are met, including required NNSA/NSO approval signatures.
  - f. Change Control Page (CCP), Attachment 2.
    - (1) All REOP changes must be accomplished using the REOP CCP.
    - (2) All changes to REOP documentation that affect the AB must be submitted with the CCP to M&O contractor, Real Estate Services.
    - (3) REOP changes will require NNSA/NSO approval at the same level the original REOP was approved, with the exception of administrative changes. Administrative changes only require approval of the REOP Manager.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

9

- f. Exceptions. NNSA/NSO AMs may deviate from these requirements, as appropriate, for activities involving special circumstances (e.g., special security concerns, etc.). However, any primary or secondary REOP holder whose established AB may be impacted because of such activities must be advised of the potential impacts by the cognizant AM, and the deviation must be concurred by AMSO and approved by the NNSA/NSO Manager.
- g. Product or Service. In the performance of work by a primary or secondary REOP holder, it is common practice within the NNSA/NSO complex to acquire the support of another organization(s) to provide specific products or services. The requesting REOP holder specifies the requirements for the product or service desired. Depending on the nature of the desired product or service, the supporting organization may fulfill its obligation autonomously or in partnership with the requestor.

The organization providing such products or services is obligated to communicate the identified hazards and controls inherent in providing the products/services within the REOP. This communication is typically provided in the form of documentation associated with the work package that is used to define and authorize these services in accordance with NSO O 412.X3C, or latest edition. This gives the primary/secondary REOP holder the information necessary to ensure that the safety envelopes established by the respective REOP holders are maintained. The organization providing the requested products/services maintains safety responsibility for its employees and is accountable for the safe performance of their work to the NNSA/NSO Manager. Such product or service organizations do not possess secondary REOPs for the facility or operation being serviced.

### 7. RESPONSIBILITIES.

- a. Manager, NNSA/NSO.
  - (1) Approves the REOP or CCP for work that requires a RR action as indicated in the RMC.
  - (2) Approves on deviations to the requirements of this directive.
  - (3) Approves REOPs that contain conditions of approval or Approval Conditions requirements.

b. AMs.

- (1) Ensure a REOP Manager is assigned to each REOP.
- (2) Coordinate with any primary or secondary REOP holders, whose established AB may be impacted because of activities that may have special security concerns.
- (3) AMs will designate Functional Area Representatives (FAR) personnel with responsibility to perform technical and administrative reviews based on REOP's Subpart C, RMC.

c. AMSO.

- (1) Develops and issues, with input from the AMs, guidance for implementing this directive to all NNSA/NSO organizational elements, contractors, National Laboratories, other federal agencies, and other NTS user organizations.
- (2) Concurs on deviations to the requirements of this directive.
- (3) Provides oversight of the administration of the REOP process by the M&O contractor.
- (4) Assigns an individual to address and resolve any issues raised by NNSA/NSO organizations related to this directive or the REOP process.

d. REOP Managers.

- (1) Ensure contractor/user organizations develop and maintain current REOPs and AB for work scopes involving real estate and/or operations under NNSA/NSO purview.
- (2) Review proposed SOW and ensure REOP holders have adequately evaluated the hazards of their work in accordance with the NNSA/NSO RMC, and have attached appropriate hazards analysis and operations plan information. For work with high-hazard consequences, including that being conducted in nuclear and nonnuclear hazardous facilities, ensure approved AB is in place.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

11

- (3) Ensure REOPs contain all AB requirements including applicable documented references that define the specific hazard that exceeds the RMC and the specific controls in place that mitigate the hazard.
  - (a) References should be as detailed as possible giving titles, page numbers, sections, etc., to direct the FAR through a quick review. Ensure all required data entries are complete and accurate, and all required legible signatures are on the applicable documents.
  - (b) If documents are not attached to the REOP, web links must be provided for access; a POC can be identified for classified, UCNI, and OOU documents.
- (4) Ensure appropriate "NNSA/NSO approval conditions" are clearly identified in the REOP (e.g., commitments to state or local officials, requirements for RRs, etc.).
- (5) Ensure REOP holders whose real estate includes a Land Use Restriction (LUR), as listed in the Facility Information Management System (FIMS) database, are responsible for knowing and abiding by the activity limitations of the LUR.
- (6) Ensure work execution that requires NNSA/NSO approval is not initiated until the required AB has been approved; the approved REOP and funding have been received; adequate operational coordination and scheduling (ground and airspace) is completed (if on the NTS); and approval conditions are met.
- (7) Upon receipt, ensure the REOP has been signed by the primary and/or secondary REOP holder(s); ensure NNSA/NSO technical reviews are conducted per the RMC; obtain NNSA/NSO concurrence signatures (legible and dated); and forward originals to M&O contractor for official filing by Real Estate Services, Mail Stop NTS251.
- (8) Ensure REOP holders perform an annual review of REOPs and AB documentation to ensure they are current. Primary REOP holders verify secondary REOPs are still active; if not, they will be closed after 12 months of inactivity by the primary REOP holder, if the secondary REOP holder is not available.

8. REFERENCES.

- a. DOE O 414.1C, QUALITY ASSURANCE, dated 6-17-05.
- b. DOE O 425.1C, STARTUP AND RESTART OF NUCLEAR FACILITIES, dated 3-13-03.
- c. DOE O 430.1B, REAL PROPERTY ASSET MANAGEMENT, dated 9-24-03, and Changes thereto.
- d. NSO O 111.XH, FUNCTIONS, RESPONSIBILITIES, AND AUTHORITIES, dated 5-11-09.
- e. NSO O 412.X3C, ACTIVITY LEVEL WORK CONTROL, dated 8-13-08.
- f. NSO O 421.X1C, NUCLEAR FACILITY SAFETY MANAGEMENT, dated 6-9-09.
- g. NSO M 450.4-X, INTEGRATED SAFETY MANAGEMENT SYSTEM DESCRIPTION, dated 4-23-08.
- h. 10 CFR 830, *Nuclear Safety Management*.
- i. 10 CFR 851, *Worker Safety and Health Program*.
- j. DOE-STD-1027-92, *Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, NUCLEAR SAFETY ANALYSIS REPORTS*.

9. DEFINITIONS.

- a. Activity Level Work. NNSA/NSO activity level work is any job, task, or subtask (e.g., any activity, step, or action that is part of an instruction, procedure, process, sequence of steps, or evolution) performed in the field or on the floor where hazards are present that are either associated with the work or the work environment (regardless of who is performing the work or the organization with which they are affiliated). The hazards involved could potentially adversely affect worker health or safety (e.g., result in worker injury or sickness) if the worker is exposed to them, and include radiological, chemical, industrial, biological, and other types of hazards.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

13

*(Reference: NNSA Activity Level Work Planning and Control Processes Attributes, Best Practices, and Guidance for Effective Incorporation of Integrated Safety Management and Quality Assurance, January 2006).*

- b. Approval Conditions. NNSA/NSO requirements that must be met prior to the performance of work within the bounding safety envelope of the Real Estate/Operations Permit (REOP).
- c. Authorization Basis (AB). The collection of documentation that supports the decision to allow a facility or activity to operate. It includes regulatory requirements, permits (e.g., air, water, etc.), SB {e.g., DSA, Hazards Assessment, etc.}, and corporate operational requirements (e.g., policies, procedures, etc.).
- d. Balance of Plant. A term used to designate the NNSA/NSO real estate for which no other primary REOP has been issued.
- e. CCP. The mechanism by which all REOP changes and/or annual reviews are documented.
- f. Change to Existing Work. Any proposed change to authorized work, requires a change to the REOP to incorporate the changed work scope and any changes to the REOP AB.
- g. Contractor/User Organization. Organizations that are contracted to NNSA/NSO, have an agreement with NNSA/NSO, or utilize NNSA/NSO facilities.
- h. Facility. Land, buildings, tunnels, and other structures, their functional systems and equipment, and other fixed systems and equipment installed therein, including site development features outside the plant such as landscaping, roads, walks, parking areas, outside lighting, and communications systems.
- i. Facility Information Management Systems (FIMS). The corporate real property database for DOE.
- j. Functional Area Representative (FAR). An NNSA/NSO employee who is assigned responsibility to monitor the performance of one or more functions that support multiple NNSA/NSO missions and/or projects. The FAR ensures that assigned functions satisfy defined requirements and are performed in a manner that adequately controls associated risks.

- k. High-Hazard Consequences. Potential results of uncontrolled hazards that may result in severe injury or death; have a major adverse impact on the environment, property, programmatic funding, or public relations.
- l. LURs. Information recorded in FIMS to protect the public health and safety on contaminated land or the surrounding property when there is residual contamination on a property.
- m. Intelligence/Intelligence-Related Activities. Any activity conducted on the NTS, by or on behalf of agencies, within the Intelligence Community (IC). Such activities include (but are not limited to) the following collection disciplines: imagery (including photography); signals (including communications); measurements and signatures; training of human assets; contributions to intelligence production efforts, research, development, or testing; and the evaluation of collection assets requested by members of the IC.
- n. Line Management. The unbroken chain of responsibility for a given work scope from the top executive in an organization, to the lowest level of management, who are all accountable for the safe performance of the work scope.
- o. M&O. There is only one M&O type contract, with authority to act as M&O contractor for the NTS.
- p. Oversight/Tailored Oversight by REOP Holder. The process used to ensure activities continue to operate within the approved safety envelope as defined in the REOP. The depth of oversight shall take into consideration a tailored approach when reviewing the hazard assessment and/or safety documentation.
- q. Prime Contract. A prime contract is any contract that is between the government and another entity (contractor/company). There are various types of contracts depending upon the requirements (e.g., supply, service, construction, Architectural and Engineering, M&O).
- r. New Work. Any proposed programmatic SOW that is not covered by an existing REOP.
- s. RR. Methods used by NNSA/NSO and contractor/users to determine readiness of operations. Reviews for nuclear facilities will be conducted per

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

15

NSO O 421.X1C and DOE O 425.1C. Reviews required by NNSA/NSO for nonnuclear activities will use a graded approach.

- t. Real Estate. Term used to collectively refer to NNSA/NSO facilities and/or open or vacant land area without buildings/structures.
- u. Real Property. Buildings and structures that are permanently affixed to the land and/or which are used for storage of radiological or hazardous materials and/or which have a connected utility. Real property under the purview of NNSA/NSO is identified by a building number and an asset identifier. Real property also includes land and tunnels that are defined in the REOP utilizing Global Positioning System coordinates.
- v. REOP. Form NSO-123 (Attachment 2) having three subparts completed by the organization to perform work under NNSA/NSO purview that documents /references the data and information necessary for NNSA/NSO to authorize work.
- w. REOP Documentation. The data or information contained in the REOP, attached to the REOP, or identified as web link references. Such new or revised documentation is subject to change control when updating the REOP.
- x. REOP Holder. The representative of an organization, including NNSA/NSO, who obtains a REOP (primary or secondary) authorizing a SOW on a designated piece of real estate, facility usage, or an operation under NNSA/NSO's purview and maintains responsibility for coordination of safety, work control, emergency response, and other actions assigned by this directive.
- y. REOP Manager. A federal employee identified by management as being qualified to represent NNSA/NSO as the REOP Manager. For purposes of this directive, this term includes Federal Project Directors, Federal Subproject Directors, Functional Area Representatives, On-Site Program Representatives, and Task Managers per NSO O 111.XH.
- z. Responsible Reviewing Organizational Element. An organizational element of NNSA/NSO responsible to review REOP documentation consistent with their assigned functions in NSO O 111.XH.

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- aa. SB. A subset of AB that focuses on analyzing hazards and identifying controls, in conformance with principles and functions of Integrated Safety Management graded for the hazard level of work. The SB can include the DSA, TSR set, Safety Evaluation Report, Nuclear Explosive Safety Study Group Report, job task analysis or job hazard analysis, and standard operating procedures to ensure operations remain within specified parameters (e.g., skill of the worker).
  - bb. Risk. The product of probability and consequences. For the purposes of this directive, probability is considered an eventuality and consequences are evaluated against the RMC to determine if the risk is of particular concern to NNSA/NSO management. A state of uncertainty where some of the possibilities involve a loss, catastrophe, or other undesirable outcome.
  - cc. Safety Envelope. The range of conditions and collection of controls covered in specific safety documentation (identified by RMC [Subpart C]) associated with specific facility operation, or projects.
  - dd. Technical Review. Process established to review the proposed SOW and ensure adequate identification and mitigation of associated risk and hazards are identified if activities exceed RMC requirements. The burden lies with the REOP holder to provide documentation of sufficient detail and clarity to complete the technical review in a timely manner.
  - ee. Facility User Model. Establish NTS vision for the “user facility” concept in which users continue to perform hands-on programmatic work on their activities/experiments within facilities under the purview of NNSA/NSO utilizing the REOP process
10. TRAINING. AMs’ POCs are required to read the current procedure and the entire NNSA/NSO staff must complete REOP overview computer based training.
11. RELATIONSHIP TO OTHER DIRECTIVES. DOE, NNSA, and NNSA/NSO have other directives, in addition to the requirements of this directive, which specify work authorization requirements. This directive in conjunction with other directives provides for operational awareness and oversight of site work control practices as performed by contractors and work for others.

REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E

9-11-09

17 (and 18)

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12. CONTACT. Questions concerning this directive will be directed to the Assistant Manager for Safety and Operations (AMSO) at (702) 295-3424.



*Stephen A. Mellington*

Stephen A. Mellington  
Manager



**CONTRACTOR REQUIREMENTS DOCUMENT (CRD)**

1. Contractors, National Laboratories, other federal agencies, and other user organizations performing activity level work under the purview of the National Nuclear Security Administration Nevada Site Office (NNSA/NSO) must:
  - a. General.
    - (1) Prepare a Real Estate/Operations Permit (REOP) in accordance with this CRD. A REOP is not required of organizations performing product or service-type work in support of a primary or secondary REOP (e.g., delivering supplies or materials services or providing other services).
    - (2) Evaluate all new work, changes to existing work, and newly identified risks/hazards in accordance with the Risk Management Checklist (RMC) (Attachment 3).
    - (3) Ensure cognizant NNSA/NSO representatives are advised of any technical changes to Authorization Basis (AB)/Safety Basis (SB) documentation utilized to mitigate risks associated with approved work activities. These changes will require submittal of a change control to the REOP.
    - (4) NNSA/NSO, NNSA/NSO prime contractors, the Joint Nevada Program Office, and other organizations designated by the NNSA/NSO manager may hold primary and secondary REOPs. All other organizations may only hold secondary REOPs.
    - (5) Submit REOP documentation to NNSA/NSO for final approval. All approved REOPs are to be submitted to the Management and Operating (M&O) contractor for Real Estate REOP record keeping.
      - (a) The M&O contractor will assign a REOP number to the REOP document.
      - (b) The original REOP documentation will be signed by the REOP holder and provided to the M&O contractor Real Estate Services for REOP administration.

## REAL ESTATE/OPERATIONS PERMIT

- (c) The M&O contractor will review the REOP documentation for administrative compliance with this directive and will provide assistance in the correction of REOP documentation errors if requested.
  - (d) The M&O contractor will confirm and verify that primary REOP boundaries do not overlap. Where multiple organizations work at a common location, only one of the aforementioned organizations will be designated as the primary REOP holder.
  - (e) The M&O contractor will enter summary information into an online REOP tracking database within three working days after receipt of the approved REOP documentation.  
<https://ntsweb.nv.gov/facilityDW/reportsFIM.cfm>
  - (f) All real estate locations will be activated and deactivated in accordance with the M&O contractor real estate activation/deactivation procedure unless other agreements are established with NNSA/NSO.
  - (g) The M&O contractor will establish and implement administrative controls to archive completed, original REOPs, and maintain a current and accurate online REOP tracking database with “read only” access.
- (6) Prepare a secondary REOP for work (not considered a “product or service”) conducted within the real estate boundary covered by one or more primary REOPs.
- (a) The primary REOP holder(s) must concur with in the secondary REOP to ensure the proposed work does not conflict with the primary REOP(s).
  - (b) One or more secondary REOPs may exist for a single primary REOP. In such cases, the combined basis of authorization of the primary and secondary REOP(s) then comprise the total REOP. However, the activities of the secondary REOPs must fall within the overall safety envelope of the primary REOP(s) for the geographic areas authorized under the secondary REOP.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 1  
Page 3

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- (c) The primary REOP(s) holder must ensure that a technical review has been conducted on all secondary REOPs where the proposed work meets or exceeds the RMC performed by an organization not specified in paragraph 1a(4) above. The results of the review are to be submitted to the REOP Manager(s) for resolution.
  - (d) A single secondary REOP may extend to the geographic area of more than one primary REOP. In such cases, reviews and concurrence of the secondary REOP must be completed by all impacted primary REOP holders.
- b. Primary and secondary REOP holders provide safety coordination for operations identified within their respective REOPs to include the following requirements:
  - (1) Ensure the activities of one organization do not present unknown hazards to another organization through written concurrence in and communication of participants' hazard assessments. Deconfliction is the responsibility of the primary REOP holder. All secondary REOP holders communicate hazards to the primary REOP holder.
  - (2) Ensure requirements and implementing documents of all organizations are sufficiently managed to avoid adverse consequences. The primary and secondary REOP holder must:
    - (a) In conjunction with the Functional Area Representatives and REOP Manager, evaluate and resolve potential conflicts between standards/requirements utilized by participating organizations. Procedures and controls authorized by NNSA/NSO (e.g., Title 10 Code of Federal Regulations (CFR), Part 851, 10 CFR 835, etc.) must serve as adequate controls unless the conflict in controls or monitoring causes conditions adverse to safety of the workers or the facility.
    - (b) Evaluate the various risk thresholds used by organizations performing work to ensure hazards have been properly analyzed.
  - (3) Ensure each organization is prepared to take appropriate emergency response actions to protect people and the environment.

## REAL ESTATE/OPERATIONS PERMIT

- (4) Primary REOP holders must:
  - (a) Be informed by the secondary REOP holder when conflicting activities may impact another organization or is reportable, such as fire events, aviation operations, and medical evacuation.
  - (b) Perform tailored oversight based on hazards and risk of those organizations not authorized to hold primary REOPs.
  - (c) Implement plan-of-the-day, plan-of-the-week, or other mechanisms to communicate potential hazards among all organizations performing work.
- c. REOP holders will coordinate with the M&O contractor when initiating and/or terminating a primary or secondary REOP. A secondary REOP cannot be released by the holder without written concurrence of the NNSA/NSO REOP authorizing official that the real estate has been returned to acceptable reusable condition.
- d. For work to be performed at the Nevada Test Site (NTS), REOP holders will notify the Operations Coordination Center (OCC), and the primary REOP holder for secondary REOPs, (via Subpart B of the REOP) no later than 14 calendar days prior to the commencement of ground activities. For ground activities that require air space, an initial Subpart B is to be submitted to OCC 45 calendar days prior to commencement of operations. This is to be followed up with additional Subpart B being submitted at 30 and 14 calendar days prior to commencement of operations. Any changes to the REOP regarding schedules or locations must be coordinated with OCC, and the primary REOP holder for secondary REOPs, utilizing an updated Subpart B. The OCC must also be notified upon completion of the operations.
- e. REOP holders must perform an annual review of their REOP to ensure the REOP documentation, including AB, is current and consistent with the Scope of Work and the risks/hazards.
- f. Work may not be initiated until:
  - (1) The REOP is completed/revised with appropriate signatures and a REOP number has been assigned in accordance with the REOP administrative process described in paragraph 1a(5) above.

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 1  
Page 5

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- (2) Approval conditions (if required) are met.
- (3) Funding has been received.
- (4) REOP holders comply with applicable requirements and controls as defined in the REOP (e.g., laws, regulations, contract requirements, etc) for all planning and execution of work.

g. REOP Documentation.

- (1) Provide a completed REOP form (Attachment 2) with original signatures. Attachment 2 provides REOP form instructions, including Subparts A and C details. The official form (NSO-123, REAL ESTATE/OPERATIONS PERMIT) is available on the NNSA/NSO Home Page at <http://nvhome/ambcm/forms/default.aspx>. This is a Word file format. Use of a Microsoft Word file format with expandable fields, obtainable from the M&O contractor, is authorized.
- (2) Subpart A. Provide the information requested in Attachment 2, Subpart A, page A-1, for all real property and work activities.
- (3) Subpart B. Complete a “NTS Activity Coordination (schedule/deconfliction)” (Attachment 2), if required. A Subpart B is required if work is being done on the NTS.
- (4) Subpart C. Complete Subpart C, RMC (Attachment 2). For classified, Unclassified Controlled Nuclear Information, Official Use Only, or unusually large documents, a Point of Contact may be specified instead. Referenced documentation will be identified by REOP number and REOP name, title, date, and revision number; any future changes to such documentation will be subject to change control.
  - (a) Define work scope in sufficient detail, such that risks of interest to NNSA/NSO (e.g., RMC, Attachment 2) can be identified. Attach a Safety Plan or Operations Plan for non-Department of Energy-related work.
  - (b) After comparing the work scope to the criteria identified in the RMC, list the specific RMC criterion number (e.g., 4a, 12b, 12c, etc.) that is met or exceeded. For each criterion, identify the specific documentation that describes the analysis of the risk, identification

of controls, and where the information can be found (attach documentation or list web link address, document title, reference section, and page number).

- (c) Identify the REOP approval authority.
- (d) AB Documentation. It includes regulatory requirements, permits (e.g., air, water, etc.), SB (e.g., Documented Safety Analysis, Hazards Assessment, etc.), and corporate operational requirements (e.g., policies, procedures, etc.).

h. Change Control.

- (1) All changes to a REOP will be processed like an original primary or secondary using the REOP Change Control Page (CCP) (Attachment 2), except:
  - (a) Routine or periodic construction/maintenance activities that do not meet or exceed the RMC (Attachment 2).
  - (b) Subpart B Schedule changes that will be provided directly to the NNSA/NSO OCC and primary REOP holder for secondary REOPs.
  - (c) Administrative changes to Sections 3-15 on the REOP form (Attachment 2). Such changes will be processed using the CCP (Attachment 2) by the REOP holder and provided directly to the M&O contractor. Administrative changes must be approved by the NNSA/NSO REOP Manager. These changes are limited to names, telephone numbers, charge numbers, organization codes, square footage corrections, and average number of occupants.
- (2) A CCP will be used to document all changes to REOP documentation, including AB.
- (3) Closure or cancellation of a REOP will be accomplished by processing a CCP. This closure or cancellation is to be completed within 60 days of completion of the work covered by the REOP. Primary REOP holders have the authority to request closure of secondary REOPs after concurrence by all related primary REOP holders and approval of NSO REOP Manager. Closure of any associated facilities will require adherence to the M&O contractor facility closure procedures. A secondary REOP cannot be released by the holder without concurrence of

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 1  
Page 7 (and 8)

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the primary holder that the real estate has been returned to acceptable reusable condition.

- (4) A CCP will be used to document an annual review of the REOP. The REOP holder is required to perform an annual review if no other CCP has been submitted for the REOP during the previous 12 months.
  - (5) Upon submittal of a CCP, all REOPs will be updated to a new format following the promulgation of a new NSO-123 and/or subpart formats.
  - (6) Affected REOP pages (those on which data has changed) will be attached to the CCP that documents those changes. The REOP itself must always be updated to the latest CCP.
  - (7) The M&O contractor will maintain a file of all completed CCPs for each REOP, but will not post CCPs in the online REOP database. A CCP log will be posted online as the first page of each REOP to display applicable CCPs (number, date, brief summary of change).
2. The M&O contractor will maintain a primary "Balance of Plant" REOP for all NNSA/NSO real estate not specifically covered by another primary REOP.



REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 2  
Page 1

NSO-123  
(08/2009)  
All other editions obsolete.

Page 1 of 2

**SUBPART A: NATIONAL NUCLEAR SECURITY ADMINISTRATION  
NEVADA SITE OFFICE (NNSA/NSO)  
REAL ESTATE/OPERATIONS PERMIT (REOP)**  
(Indicate N/A for all items that are not applicable)

- 1. **REOP Name:** \_\_\_\_\_
- 2. **REOP Number:** \_\_\_\_\_  
(Provided by Management and Operating [M&O] contractor, Facilities Oversight, Real Estate Services, Mail Stop NTS251)
- 3. **Date:** \_\_\_\_\_  
(Date submitted to NNSA/NSO for approval)
- 4. **Primary**  **Secondary**   
Related Primary REOP Numbers:  
\_\_\_\_\_  
\_\_\_\_\_
- 5. **Subpart B is required if work is being conducted at the Nevada Test Site (NTS).**  
**Yes**  **No**   
(If yes, contact the Operations Coordination Center [OCC] at 702-295-4015 to coordinate.)
- 6. **Facility Activation Involved?** **Yes**  **No**
- 7. **Planned Operational Dates (5 Years Max.):**  
From \_\_\_\_\_  
To \_\_\_\_\_
- 8. **Site Designation:** **NTS**  **NLV**  **RSL**  **Other Location (*identify here*)**
- 9. **Area Designation (for NTS only):**  
(Example: 01, 02, 06, 18 etc.) \_\_\_\_\_
- 10. **Perimeter Boundaries (use Global Positioning System coordinates longitude/latitude to define land areas. Building or Room Numbers may be used for real property listed on Subpart A:**
- 11. **Description of Work Scope/Safety Envelope Involving Use of Real Property Under NNSA/NSO Purview:**  
Authorization basis documentation required? **Yes**  **No**  If yes, see supplemental documentation attached Subpart C.
- 12. **REOP Holder:**  
Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Organization: \_\_\_\_\_ Org. Code: \_\_\_\_\_  
Duty Phone: \_\_\_\_\_ Radio Net: \_\_\_\_\_  
Pager Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_  
Off-Duty Phone: \_\_\_\_\_ (emergencies only)  
Facility Manager Name if Different From REOP Holder: \_\_\_\_\_

REAL ESTATE/OPERATIONS PERMIT

NSO-123  
(08/2009)  
All other editions obsolete.

**SUBPART A: NNSA/NSO REOP**  
**(Continued)**

REOP No.: \_\_\_\_\_  
REOP Name: \_\_\_\_\_  
SITE: \_\_\_\_\_

<b>13. Concurrence of Primary REOP Holder if Application Is for a Secondary REOP:</b>			
_____	_____	_____	_____
Printed Name	Signature	Organization	Date
_____	_____	_____	_____
Printed Name	Signature	Organization	Date
<b>14. M&amp;O Contractor OCC Concurrence of Coordination/Deconfliction (if Subpart B required):</b>			
_____	_____	_____	_____
Printed Name	Signature	Title	Date
<b>15. NNSA/NSO REOP Manager Approval:</b>			
_____	_____	_____	_____
Printed Name	Signature	Title	Date
<b>16. NNSA/NSO Approval:</b>			
Readiness Review Required: Yes <input type="checkbox"/> No <input type="checkbox"/> . If yes, NNSA/NSO <input type="checkbox"/> Contractor <input type="checkbox"/>			
NNSA/NSO Approval Conditions: Yes <input type="checkbox"/> No <input type="checkbox"/> . If yes, identify comments below:			
_____	_____	_____	_____
Printed Name	Signature	Title	Date
<b>17. Received by M&amp;O Contractor Representative:</b>			
_____	_____	_____	_____
Printed Name	Signature	Title	Date
<b>18. Cancel REOP:</b>			
<b>NNSA/NSO REOP Manager:</b>			
_____	_____	_____	_____
Printed Name	Signature	Title	Date
<b>M&amp;O Contractor Deactivation:</b>			
_____	_____	_____	_____
Printed Name	Signature	Title	Date

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 2  
Page 3

### SUBPART A: NNSA/NSO REOP FORM INSTRUCTIONS

Item 1. REOP Name. Provide a unique name that will permit future identification and communications concerning this REOP.

Item 2. REOP Number. Contact the M&O contractor, Real Estate Services, NTS251, to obtain a REOP number. A REOP number can be reserved up to 60 days in advance in order to cite the number in other documents before the REOP is approved.

Item 3. Date. The date the REOP is submitted to NNSA/NSO REOP Manager for approval.

Item 4. Primary/Secondary. The REOP holder will identify this REOP as either a primary or a secondary REOP. If it is a primary REOP withdrawing real estate from a Balance of Plant REOP, the applicable Balance of Plant REOP number will be identified. If it is a secondary REOP, the related primary REOP number(s) will be identified.

Item 5. Subpart B is required if work is being conducted at the NTS. Check "Yes" or "No." If yes, contact the M&O OCC at (702) 295-4015 or [OCCSiteoperations@nv.doe.gov](mailto:OCCSiteoperations@nv.doe.gov), to determine if a Subpart B is required.

Item 6. Facility Activation Involved? Check "Yes" if this REOP includes a building(s) that require activation. This item indicates the need for the M&O contractor to accommodate utility needs, fire protection, custodial services, and physical/environmental hazards control.

Item 7. Planned Operational Dates (Five-Year Maximum). Identify the approximate dates for the work scope. A REOP may be approved for no longer than five years without revision.

Item 8. Site Designation. Check the appropriate box.

Item 9. Area Designation (for NTS only). Identify the two-digit area number where this REOP is located. If the perimeter boundary intersects more than one area, chose the area that is best representative. If the work scope is located at other than the NTS, enter "N/A."

Item 10. Perimeter Boundaries. Identify the longitude/latitude Global Position System coordinates for land area(s) under a primary REOP or a secondary REOP. The coordinates will be provided in a clockwise manner beginning at the most southeast coordinate. This information is used by the M&O contractor to ensure estate is clearly assigned to one, and only one organization. Any unique issues with this information will be negotiated with the M&O contractor (e.g. NSTec Real Estate Services).

Item 11. Description of Work Scope Involving Use of Real Property Under NNSA/NSO Purview. Briefly describe the authorized operations/activities that are to be conducted.

Item 12. REOP Holder. This block is for the signature of the organizational representative (as defined in the REOP directive, page 15, paragraph 9W).

Item 13. Concurrence of Primary REOP Holder(s) if Application Is for a Secondary REOP. Documents the concurrence of related primary REOP holder identified in Item 4.

Item 14. M&O Contractor OCC Coordination/Deconfliction (if Subpart B required). Subpart B is required if work is being done on the NTS so that OCC is aware of the work and deconflicts the proposed activity in the NTS operations schedule. OCC is aware for deconfliction of proposed activity and has NTS operations schedule.

## REAL ESTATE/OPERATIONS PERMIT

Attachment 2  
Page 4

NSO O 412.X1E  
9-11-09

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Item 15. NNSA/NSO REOP Manager Approval. This signature block is to ensure the assigned NNSA/NSO REOP Manager is aware of the work and has made sure controls for risks that are of interest to NNSA/NSO are in place.

Item 16. NNSA/NSO Approval.

Readiness Review Required? Check "Yes" or "No." If yes, indicate either an NNSA/NSO Readiness Review (RR) or a contractor readiness review. The requirement for a RR is derived from the Risk Management Checklist (Attachment 3).

NNSA/NSO Approval Conditions. Check "Yes" or "No." This section provides a means of identifying any items that must be accomplished before, during, or after operations that are considered important to NNSA/NSO and, therefore, a condition of approval. The approval level for this block is defined in paragraph 6b(5) of this directive.

Item 17. Received by M&O Contractor Representative. This block will be signed and dated by a representative of the M&O contractor when the completed REOP is received from the NNSA/NSO REOP Point of Contact.

Item 18. Cancel REOP. This block will be signed and dated by:

- The NNSA/NSO REOP Manager to document concurrence with REOP cancellation.
- An M&O contractor representative to document accomplishment of the deactivation process and update of the REOP database and website.



**SUBPART A: NEVADA NUCLEAR SECURITY ADMINISTRATION  
REAL PROPERTY IDENTIFICATION FORM—PAGE A-1****HAZARD CATEGORY**

**NOTE:** Department of Energy Headquarters tracking requirement for FIMS (Facility Infrastructure Management System).

**NNSA HAZARD CATEGORY.** Use one of the following numerical entries for each asset ID on the Subpart A form:

**01 Nuclear Facility Category 1.** Hazard analysis shows the potential for significant *off-site* consequences during an accident (Page 7, DOE-STD-1027-92, *Hazard Categorization and Accident Analysis Techniques for Compliance With DOE Order 5480.23, NUCLEAR SAFETY ANALYSIS REPORTS*, Title 10 Code of Federal Regulations (CFR), Part 830, *Nuclear Safety Management*). An example is the Advanced Test **reactor** at the Idaho National Engineering Laboratory.

**02 Nuclear Facility Category 2.** Hazard analysis shows the potential for significant *on-site* consequences during an accident (Page 7, DOE-STD-1027-92). An example is the Device Assembly Facility at the NTS.

**03 Nuclear Facility Category 3.** Hazard analysis shows the potential for significant *localized* consequences during an accident (Page 7, DOE-STD-1027-92). A facility that contains or handles quantities of nuclear material less than the threshold limits (e.g., 160 grams for Co-60) for Category 2 but greater than those (e.g., 0.25 grams for Co-60) for Radiological Facility. An example is the Joint Actinide Shock Physics Experimental Research at the NTS.

**04 Radiological Facility.** Facility that handles or contains nuclear materials, but at levels below the threshold (e.g., 0.25 grams for Co-60) for a hazard Category 3 Nuclear Facility as defined in DOE-STD-1027-92). An example is the RAMATROL at the NTS.

**05 Chemical Hazard Facility.** The quantity of chemicals contained in the facility exceeds the threshold quantity for those chemicals covered under the Occupational Safety and Health Administration's Chemical Process Safety regulation, 29 CFR 1910, Section 119, Appendix A (e.g., 10,000 pounds for anhydrous ammonia). An example is Nonproliferation Test Evaluation Center a chemical storage facility.

**06 Nuclear Category 1 and Chemical Hazard Facility.** Meets combined criteria for hazard Categories 01 and 05.

**07 Nuclear Category 2 and Chemical Hazard Facility.** Meets combined criteria for hazard Categories 02 and 05.

**08 Nuclear Category 3 and Chemical Hazard Facility.** Meets combined criteria for hazard Categories 03 and 05.

**09 Radiological Facility and Chemical Hazard Facility.** Meets combined criteria for hazard Categories 04 and 05.

**10 Not Applicable.** Facility does not fall into any of the above categories.

REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 2  
Page 7

NSO-123B  
(08/2009)  
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Page B-1

REOP No. \_\_\_\_\_  
REOP Name: \_\_\_\_\_

**SUBPART B: NTS ACTIVITY COORDINATION**  
Schedule/Deconfliction

Type of Request: Mark only one per form.

Schedule Activity                                       Delete Information                                      Preparer name                                      Phone #: \_\_\_\_\_  
 Cancel Activity     Change Information                                      \_\_\_\_\_

Yes	No	General Questions
<input type="checkbox"/>	<input type="checkbox"/>	Are Foreign Nationals associated with this activity? Contact NNSA/NSO AMSS.
<input type="checkbox"/>	<input type="checkbox"/>	Will any road closures be required, if yes where? _____ If any road closures are due to security concerns, please contact AMSS.
<input type="checkbox"/>	<input type="checkbox"/>	Any off-hours or Weekend/Holiday work? Contact OCC prior to start at 295-4015 or 295-2467.
<input type="checkbox"/>	<input type="checkbox"/>	Aviation-related work, complete/submit "NTS Aviation Activity Coordination" (NSTec FRM-2087) with this Subpart B, available from OCC at 295-4015 or 295-2467.
Estimated # of personnel working in Area: _____		
<b>A. Organization (mark all that apply):</b>		
<input type="checkbox"/> NNSA/NSO	<input type="checkbox"/> LLNL	<input type="checkbox"/> LANL
<input type="checkbox"/> SNL	<input type="checkbox"/> WSI	<input type="checkbox"/> DTRA
<input type="checkbox"/> M&O	<input type="checkbox"/> EM Service Contractor	<input type="checkbox"/> DRI
<input type="checkbox"/> State of NV	<input type="checkbox"/> OCRWM	<input type="checkbox"/> JNPO
<input type="checkbox"/> Other: _____		
		<b>B. Requester:</b> _____
		Phone/Pager: _____
		Backup POC: _____
		Radio Net: _____
		Call Sign: _____

**C. Please list dates and times personnel will actually be in each area. If work will occur Friday/Saturday/Sunday or holiday, please note as such, or a four-day workweek will be assumed. For activities spanning more than one month, please prepare forms in one-month intervals. If additional space is needed, use "Remarks" section below:**

Date Start/Stop: _____	Time Start/Stop: _____
Date Start/Stop: _____	Time Start/Stop: _____
Date Start/Stop: _____	Time Start/Stop: _____

**D. Location:**

NTS Area(s) \_\_\_\_\_

NTS Grid Coordinates \_\_\_\_\_ If known, Lat. & Long. \_\_\_\_\_

**REAL ESTATE/OPERATIONS PERMIT**

**REOP No:** \_\_\_\_\_  
**REOP Name:** \_\_\_\_\_

**E. Brief Description (use separate blank sheet(s) for additional data):**

**F. OCC Remarks Only (use separate blank sheet(s) for additional data):**

**WHEN SUBPART B FORM IS COMPLETE, E-MAIL TO THE OPERATIONS COORDINATION CENTER (OCCSiteoperations@nv.doe.gov) OR FAX TO (702) 295-3852, AND THEN SUBMIT UPDATED COPY TO ALL PRIMARY REOP HOLDERS.**

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 2  
Page 9**

NSO-123C  
(08/2009)  
All other editions obsolete.

Page C-1

**SUBPART C: RISK MANAGEMENT CHECKLIST (RMC)**

REOP No.: \_\_\_\_\_  
REOP Name: \_\_\_\_\_

1. A detailed definition of the work scope is: <input type="checkbox"/> Attached <input type="checkbox"/> Available at the following website:				
2. The following NNSA/NSO Risk Management Criteria were met or exceeded: <input type="checkbox"/> None				
From the RMC: List individual criterion met or exceeded one per line, followed by section title. Example: (6b—Environmental Restoration Protection)	Attach REOP Holder Documentation: Clearly states the concern that exceeds the criteria and the mitigating controls. (Give reference title, page, section, etc.) Use extra space if needed.	Provide Web Link Reference, or Identify POC with phone number for Classified, OOU, or UCNI	List NNSA/NSO Responsible Organization for resolving comments	FAR Reviewer's Signature
3. Any changes to the above documentation will be subject to change control. Based on the Risk Management Criteria, the REOP approval authority is the: <input type="checkbox"/> NNSA/NSO Manager <input type="checkbox"/> NNSA/NSO Assistant Manager <input type="checkbox"/> NNSA/NSO REOP Manager				
4. Authorization Basis Documentation: Provide Website Link Reference (Give reference title, page, section, etc.) Insert additional pages, if needed.				

## REAL ESTATE/OPERATIONS PERMIT

Attachment 2  
Page 10

NSO O 412.X1E  
9-11-09

### SUBPART C: INSTRUCTIONS

**Note:** The burden lies with the REOP initiator to provide the documentation necessary to complete the technical review in a timely manner. Whatever documentation is provided, it will be under change control. Hence, it is in the REOP holder's best interest to identify specifically the particular section of a larger document where this information can be found.

REOP Number and Name. Provide the REOP number and name. This number and name is to be consistent with the name given on Item 1 of the REOP form.

Item 1. A definition of the work scope is. Check "Attached" or "Available at the following website." Either attach the work scope description or provide the web link reference to the information accessible through the NNSA/NSO Intranet.

Item 2. The following NNSA/NSO RMC were met or exceeded. Identify the specific RMC criteria that this work scope involves. If none, so indicate.

First Column. Checklist. Identify each specific criterion followed by the section title from the RMC, Attachment 3 (e.g., 9d—NTS Operations, 10a—Nuclear Safety, etc.), that this work scope involves. Use extra space, if needed.

Second Column. REOP Holder Documentation Reference That Addresses Criteria Concern/Resolution (Title, Page, Section, etc.). For each criterion identified (except 10a and 22a), indicate the documentation that addresses the controls of the risk. For Criteria 10a and 22a, simply indicate "N/A."

Third Column. Attach or Provide Web Link Reference. For each document identified in the second column, indicate either "Attached" or the specific web link where the information can be obtained. If documentation is classified, unclassified controlled nuclear information, official use only, or unusually large, a point of contact can be provided.

Fourth Column. Reviewing NNSA/NSO Organization. Responsible reviewing organization has resolved all comments.

Fifth Column. Reviewer's Signature. Responsible Functional Area Representative Subject Matter Expert or representative from each Assistant Manager with authority to sign Subpart C.

Item 3. Any changes to the above documentation will be subject to change control. Indicate the required level of approval and sign the document. The required level approval is derived from the RMC, Attachment 3. Changes to the attachment for secondary REOPs need to be concurred by the primary REOP holder.

Item 4. Authorization Basis Documentation. Including all authorization basis documents are to be listed on Page C-1. (e.g., Regulatory Requirements, Documented Safety Analysis, Technical Safety Requirements, Permits, Hazard assessments, Operational Requirements, and Safety Basis).

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 2  
Page 11 (and 12)**

NSO-123D  
(08/2009)  
All other editions obsolete.

**NATIONAL NUCLEAR SECURITY ADMINISTRATION  
NEVADA SITE OFFICE (NNSA/NSO)  
REAL ESTATE/OPERATIONS PERMIT(REOP)  
CHANGE CONTROL PAGE**

Page \_\_\_\_\_ of \_\_\_\_\_

**1. REOP INFORMATION:**

REOP No: \_\_\_\_\_ Revision No.: \_\_\_\_\_  
 REOP Name: \_\_\_\_\_  
 Type REOP: Primary  Secondary

**2. PROPOSED CHANGE:**

Changed Initiated By:  _____ (Printed Name)  _____ (Organization)	Type Change:  <input type="checkbox"/> Technical <span style="margin-left: 150px;"><input type="checkbox"/> Schedule Change</span> <input type="checkbox"/> Annual Review <span style="margin-left: 100px;"><input type="checkbox"/> Other: explain below</span> <input type="checkbox"/> Closure/Cancellation (Real Estate returned to Balance of Plant)  <input type="checkbox"/> Revised Format Only, changes that do not require RMC (attachment 3) risk review
---	---

**Description of Change:**  
  
 \_\_\_\_\_  
 \_\_\_\_\_

**Effective Date of Change: (This entry cannot be back-dated)**  
 \_\_\_\_\_

**Attachments (list and attach all changed REOP pages and/or Subpart A, B, or C documents):**  
 Documents are scanned in with signatures, for posting on online database.  
 \_\_\_\_\_  
 \_\_\_\_\_

**3. CHANGE APPROVAL:**

<b>REOP Holder:</b>		
_____	_____	_____
(Printed Name)	(Signature)	(Date)
<b>Concurrence of Primary REOP Holder:</b>		<input type="checkbox"/> <b>N/A (check if not applicable)</b>
_____	_____	_____
(Printed Name)	(Signature)	(Date)
<b>M&amp;O Contractor Operations Coordination Center Coordination/Operations Scheduling:</b>		<input type="checkbox"/> <b>N/A (check if not applicable)</b>
_____	_____	_____
(Printed Name)	(Signature)	(Date)
<b>NNSA/NSO REOP Manager:</b>		<input type="checkbox"/> <b>N/A (check if not applicable)</b>
_____	_____	_____
(Printed Name)	(Signature)	(Date)
<b>NNSA/NSO Authorization Official:</b>		<input type="checkbox"/> <b>N/A (check if not applicable)</b>
_____	_____	_____
(Printed Name)	(Signature)	(Date)

**4. RECEIVED BY M&O CONTRACTOR REPRESENTATIVE:**

_____	_____	_____
(Printed Name)	(Signature)	(Date)



**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 3  
Page 1**

REOP No: \_\_\_\_\_  
REOP Name: \_\_\_\_\_

**NATIONAL NUCLEAR SECURITY ADMINISTRATION (NNSA)  
NEVADA SITE OFFICE (NNSA/NSO)  
RISK MANAGEMENT CHECKLIST (RMC)<sup>1</sup>**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
<b>1. Aviation Management and Safety</b>			
a. Use of any aerial assets in service to NNSA/NSO.	Any		AM for National Security (AMNS) <input type="checkbox"/>
b. Use of any unmanned aerial vehicle.			AM for Safety and Operations (AMSO) <input type="checkbox"/>
c. Use of NNSA/NSO aviation assets that could be contaminated with hazardous materials (e.g., rad, beryllium, etc.).			AM for Safeguards and Security (AMSS) <input type="checkbox"/>
<b>2. Classification</b>			
• Production or handling of Department of Energy (DOE), NNSA, and/or other government agencies' classified and unclassified-sensitive information.	Any		AMSS <input type="checkbox"/>

<sup>1</sup> Identify any RMC criteria where the work scope meets or exceeds the specified criteria. Any safety criteria section will be evaluated by Point of Contact (POC)/Functional Area Representative (FAR) without regard to hazard mitigation.

<sup>2</sup> The following Assistant Managers (AM) need to review (prior to signature) all Real Estate/Operations Permits (REOP) that exceed the specified criteria as identified in this checklist. Only for Federal Staff (POC/FAR) use.

**REAL ESTATE/OPERATIONS PERMIT**

**Attachment 3  
Page 2**

**NSO O 412.X1E  
9-11-09**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
<b>3. Construction</b>			
a. Exemptions or deviations from applicable building codes and standards (e.g., International Code Council Uniform Building Code, Uniform Plumbing Code, and National Electric Code).	Any		AMSO <input type="checkbox"/>
b. New construction work and/or construction related activities that are not covered under an existing NSO approved Title 10 Code of Federal Regulations (CFR), Part 851, Worker Safety and Health Program (WSHP).			AMSO <input type="checkbox"/>
c. Demolition/closure facilities with hazards or conditions in facilities that are or will be permanently closed or demolished, that involve deviations from the technical requirements of 10 CFR 851.23.			AMSO <input type="checkbox"/>
<b>4. Emergency Management</b>			
a. Hazardous materials (radioactive materials, chemicals, hazardous biological agents and toxins) transported, stored, or used, which exceed the thresholds identified in DOE O 151.1C, Chapter III.	Any  (Plan for disposition of leftover chemicals after project completion)		AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
b. Work performance that could potentially result in a classifiable event in accordance with DOE O 151.1C (e.g., Alert, Site Area Emergency, or General Emergency).	Any		AMSO <input type="checkbox"/>
<b>5. Environmental Protection, Monitoring, and Compliance</b>			
a. Proposed action that may cause an impact on any aspect of the environment (this includes modifications to existing facilities to accommodate a new or expanded use); submit a completed National Environmental Policy Act (NEPA) Environmental Checklist (Form NSO-16) with REOP application for any proposed action that has not previously received a NEPA determination as required by 10 CFR 1021. Every REOP will be required to have a Form NSO-16.	Any		AM for Environmental Management (AMEM) <input type="checkbox"/>
b. Proposed action/project/activity to be conducted in Nevada Test Site (NTS) desert tortoise range. An "effects analysis" must have been completed to determine if action/project/ activity needs to be appended to the NTS Biological Opinion.	Any		AMEM <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 3  
Page 3**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
c. Any action/activity that could affect archaeological and historic sites. American Indian cultural areas, Cold War artifacts, structures, or sites that may have historical or cultural significance.	Any		AMEM <input type="checkbox"/>
d. Any release of radioactivity.	Any		AMEM <input type="checkbox"/> Nuclear Safety Team (NST) <input type="checkbox"/>
e. Property/scrap/waste that is intended to remain on NNSA/NSO real estate after the completion of the work that was not there prior to the beginning of work.	Any		AMEM <input type="checkbox"/> AMSO <input type="checkbox"/>
f. Ground surface disturbance (including off-road driving); open burning of material/fuel; potential to emit pollutants (including radioactive) to the air; use of diesel- or gasoline-powered electric generator(s); explosive operations.	Any		AMEM <input type="checkbox"/>
g. Disturbance of springs, seeps, ponds, playas (dry lakes), intermittent drainages (e.g., dry washes) with defined banks.	Any		AMEM <input type="checkbox"/>
h. Development of a new or modification of an existing drinking water system at the NTS; proposal to drill a well or borehole; proposal to construct or modify a septic sewage system.	Any		AMSO <input type="checkbox"/> AMEM <input type="checkbox"/>
i. Access to any NTS well, which intersects the groundwater table.	Any		AMEM <input type="checkbox"/>
<b>6. Environmental Restoration</b>			
a. Activities to be performed at any of the current Decontamination and Decommissioning facilities.	Any		AMEM <input type="checkbox"/>
b. Activities that may potentially result in a need to restore the environment to its preuse condition.	Any		AMEM <input type="checkbox"/>
c. Any activities that may affect an Federal Facility Agreement and Consent Order (FFACO) site, as listed in Appendices II-IV of the FFACO. Including sites that have been closed in place with a Land Use Restriction.	Any		AMEM <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**Attachment 3  
Page 4**

**NSO O 412.X1E  
9-11-09**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
<b>7. Fire Protection</b>			
a. Construction projects that must be constructed to National Fire Protection Agency (NFPA) standards and/or involve fire protection systems.	Any		NST <input type="checkbox"/>
b. Construction projects that complete a fire hazards analysis in accordance with NFPA 801.	Any		NST <input type="checkbox"/>
c. Exemptions or deviations from applicable fire protection codes.	Any		NST <input type="checkbox"/>
<b>8. Industrial Hygiene</b>			
a. Disturbance of asbestos or lead-based paint.	Any		AMSO AMEM <input type="checkbox"/>
b. Use of airline or self-contained breathing apparatus respiratory protection.	Any		AMSO <input type="checkbox"/>
c. Use of lasers ≥ Class 3b American National Standards Institute ([ANSI] Z136.1).	Any		AMSO <input type="checkbox"/>
d. Use of non-ionizing radiation emitters > 10 Milliwatts per Square Centimeter (ANSI/Institute of Electrical and Electronic Engineers C95.1).	Any		AMSO <input type="checkbox"/>
e. Potential to generate particulates/fumes/chemical vapors greater than 50 percent of the published levels (Threshold Limit Values (TLV) or Permissible Exposure Limits) (American Council of Government Industrial Hygenists TLVs for Chemical and Physical Agents and Biological Indices booklet).	Any		AMSO <input type="checkbox"/>
f. Use of chemical agents or simulants, biological warfare agents or simulants, or any chemical used in training exercises.	Any		AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
g. Use of beryllium or working in areas previously identified as being contaminated (legacy sites).	Any		AMSO <input type="checkbox"/>
h. Potential to lower oxygen concentration within an occupied area below 19.5 percent.	Any		AMSO <input type="checkbox"/>
i. Potential to generate flammable gas vapor or mist above 10 percent Lower Flammable Limit.	Any		AMSO <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 3  
Page 5**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
<b>9. NTS Operations</b>			
a. NTS operational activities on the ground, underground, or within NTS air space (excludes infrastructure maintenance/ utilization), not currently being performed within an existing authorization basis.	Any		AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
b. NTS activities requiring road closures and/or airspace restrictions (excluding infrastructure maintenance/ utilization, not currently being performed within an existing authorization basis.	Any		AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
c. Any activities planned to utilize, access, or be scheduled that may impact the U.S. Air Force Nevada Test and Training Range (NTTR) airspace and/or ground areas, including any land areas or airspace in the Tonopah Test Range portion of the NTTR.	Any		AMSO <input type="checkbox"/> AMSS <input type="checkbox"/> AMNS <input type="checkbox"/> Air Force Liaison Office (AFLO)/DOE <input type="checkbox"/>
d. Department of Defense (DoD) activities involving DoD aircraft and ground operations.	Any		AFLO/DOE <input type="checkbox"/> AMNS <input type="checkbox"/> AMSS <input type="checkbox"/> AMSO <input type="checkbox"/>
<b>10. Nuclear Safety</b>			
a. Facilities/activities categorized as 1, 2, 3, or radiological.	Any	Any Nuclear Facility Startup/Restart	AMNS <input type="checkbox"/> NST <input type="checkbox"/> AMEM <input type="checkbox"/>
b. Facilities/Activities involving nuclear criticality safety hazards.		Any Nuclear Facility Startup/Restart	AMNS <input type="checkbox"/> NST <input type="checkbox"/> AMEM <input type="checkbox"/>
c. Activities involving structure, system, or component at a Hazard Category 1, 2, or 3 nuclear facility.	Any	Any Nuclear Facility Startup/Restart	AMNS <input type="checkbox"/> NST <input type="checkbox"/> AMEM <input type="checkbox"/>
<b>11. Occupational Medicine</b>			
a. Any activity/operation that cannot be supported by the Management and Operating contractor medical department.	Any		AMSO <input type="checkbox"/>
b. All projects involving human subject research, as defined by 10 CFR 745, Protection of Human Subjects:  (1) All research projects that involve human subjects in human machine interface testing.  (2) All research projects that involve collection of data from living individuals through intervention or interaction.	Any		AMSO <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**Attachment 3**  
**Page 6**

**NSO O 412.X1E**  
**9-11-09**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
(3) All research projects that involve collection of bodily material.			
(4) All research projects that identify individuals.			
(5) All research projects that gain generalized knowledge about human subjects.			
<b>12. Occupational Safety</b>			
a. Construction of a new tunnel complex.	Any		AMSO <input type="checkbox"/>
b. Involves energetic materials, including explosives and munitions.	Any	Other Than Standard Industrial Use of Energetic Material	AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
c. Use of firearms.	Any		AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
d. Use of any pyrophoric materials.	Any		AMSO <input type="checkbox"/>
e. Trenching/Excavation activities four feet or more in depth.	Any		AMSO <input type="checkbox"/>
f. Hoist, crane, or other load lifts greater than 10 tons.	Any		AMSO <input type="checkbox"/>
g. Activities on energized power transmission/distribution systems (live work above 1000 volts).	Any		AMSO <input type="checkbox"/>
h. Facilities or activities where personnel may (routinely) be exposed to lightning during the normal course of their duties.	Any		AMSO <input type="checkbox"/>
i. Work activities that are not covered under an existing NNSA/NSO-approved 10 CFR 851, WSHP.	Any		AMSO <input type="checkbox"/>
<b>13. Packaging and Transportation (Facility Only)</b>			
a. Projects involving the handling of hazardous material, as defined in 49 CFR.	Any		AMEM <input type="checkbox"/>
b. Transportation of materials of national security interest.	Any		AMNS <input type="checkbox"/> AMSS <input type="checkbox"/> AMEM <input type="checkbox"/>
c. Transportation of Nuclear Explosives-Like Assemblies.	Any		AMNS <input type="checkbox"/> AMSS <input type="checkbox"/> AMEM <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 3  
Page 7**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
<b>14. Property/Infrastructure</b>			
a. Infrastructure needs (e.g., vehicles, power, roads, facilities, water systems, communications, housing/feeding services) that may have a significant impact on available resources by requiring a change to existing processes or capabilities.	Any		AMSO <input type="checkbox"/>
b. Transfer, lease, disposition, or acquisition of interest in NNSA/NSO controlled real property (e.g., permanent structure, and land) that may be contaminated with radiological or toxic materials/metals.	Any		AMSO <input type="checkbox"/>
c. Any change to the use of a facility or land or uses that may affect adjacent facilities or land.	Any		AMSO <input type="checkbox"/>
d. Activities requiring shared assets, transfer of assets, or agreements on support or resources with state, local government, or other federal agencies.	Any		AMSO <input type="checkbox"/> Office of Public Affairs (OPA) <input type="checkbox"/>
e. Activation or deactivation of any facilities under NNSA/NSO's purview.	Any		AMSO <input type="checkbox"/>
<b>15. Public Affairs</b>			
• Activities that could cause significant public concern during normal operations, regardless of the NNSA/NSO location, and which may incur interaction with the public, governmental (local, county, state, tribal, and congressional) entities, the media, or other affected stakeholders.	Any		OPA <input type="checkbox"/>
<b>16. Radiological Safety</b>			
a. Activities estimated or predicted to involve: (1) Whole Body Dose > 100 millirem (mrem). (2) Collective Whole Body Dose > 500 mrem. (3) Individual Extremity Dose > one rem.	Any	Any Nuclear Facility Startup (Category 1, 2, or 3)	NST <input type="checkbox"/>
b. Personnel entry to a radiation area, high radiation area, very high radiation area, airborne radioactivity area, contamination area, or high contamination area.	Any	Any Nuclear Facility Startup (Category 1, 2, or 3)	NST <input type="checkbox"/>
c. Personnel entry to a radioactive material area or underground radioactive material area.	Any	Any Nuclear Facility Startup (Category 1, 2, or 3)	NST <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**Attachment 3**  
**Page 8**

**NSO O 412.X1E**  
**9-11-09**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
d. Use of a sealed radioactive source or special nuclear material.	Any	Any Nuclear Facility Startup (Category 1, 2, or 3)	NST <input type="checkbox"/>
e. Use of a radiation-generating device.	Any	Any Nuclear Facility Startup (Category 1, 2, or 3)	NST <input type="checkbox"/>
<b>17. Safeguards and Security</b>			
a. Request for any new clearances or transfer of clearances.	Case-by-Case Basis		AMSS <input type="checkbox"/>
b. All foreign national access to NNSA/NSO facilities.	Case-by-Case Basis		AMSS <input type="checkbox"/>
c. Special permits for cameras, binoculars, recording devices, weapons, cell phones.	Any		AMSS <input type="checkbox"/>
d. Production or handling of DOE and NNSA classified documents.	Any		AMSS <input type="checkbox"/>
e. Production or handling of other government agencies' classified information.	Case-by-Case Basis		AMSS <input type="checkbox"/>
f. Use and storage of special nuclear material.	Any		AMSS <input type="checkbox"/>
(1) Materials control and accountability.			
(2) Safeguards and Security.			
g. Required modification of protective force, alarm systems, or security procedures.	Case-by-Case Basis		AMSS <input type="checkbox"/>
h. Requirement for erection of barricades, requests for security services, e.g., security patrols, area closures.	Any		AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
<b>18. Mission Impacts</b>			
a. Activities that may potentially affect the Device Assembly Facility/U1a/Big Explosives Experimental Facility/Joint Actinide Shock Physics Experimental Research/Baker/RadNucCTEC operations or their authorization basis.	Any	Case-by-Case Basis	AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> NST <input type="checkbox"/> AMSS <input type="checkbox"/>
b. Activities that may potentially affect nuclear and nonnuclear hazardous facilities.	Any	Case-by Case Basis	AMEM <input type="checkbox"/> AMSO <input type="checkbox"/> NST <input type="checkbox"/> AMSS <input type="checkbox"/>
c. Nuclear explosives safety operations.	Any	Any Nuclear Facility Startup/Restart	AMNS <input type="checkbox"/> AMSS <input type="checkbox"/> NST <input type="checkbox"/>
d. Activities that may require any NTS area closure.	Any		AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

**NSO O 412.X1E  
9-11-09**

**Attachment 3  
Page 9**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
e. Any experimental use of: high explosive or energetic materials.	Any	Any Facility Startup	AMNS <input type="checkbox"/> AMSO <input type="checkbox"/> AMSS <input type="checkbox"/>
<b>19. Telecommunications</b>			
a. Use of NNSA/NSO telecommunications/information systems that exceed or potentially may conflict with existing capabilities.	Any		AMSS <input type="checkbox"/>
b. Use of wireless services on the NTS using non-NTS radio frequencies.	Any		AMSS <input type="checkbox"/>
c. Use of nongovernment telecommunications resources on the NTS.	Any		AMSS <input type="checkbox"/>
<b>20. Waste Management</b>			
a. Activities that will identify or create a hazardous and/or radiological waste and the purchase, use, disposition of hazardous materials:  (1) Hazardous—40 CFR 261.3, Nevada Administrative Code (NAC) 444.8565, NAC 444.843.  (2) Radioactive—DOE M 435.1-1 Chg 1, Attachment 1, Number 35, Radioactive Waste, and Numbers 22, 25, 27, and 49. An Radioactive Waste Management Basis must be submitted and approved prior to approval of the REOP.  (3) Asbestos—NAC 444.966, Nevada Revised Statutes 618.750, NAC 444.973(5)(a), 40 CFR 61.141.  (4) Polychlorinated Biphenyls—NAC 444.9435, 40 CFR 761.3.  (5) Is final project disposition of left over chemicals needed?	Any		AMEM <input type="checkbox"/>
<b>21. Intelligence Activity</b>			
a. Any intelligence collection discipline proposed for use on the NTS, by any entity: Human Resources (HUMINT), Imagery, to include photography—ground and aerial (IMINT), Signals Intelligence (SIGNET), and Measurement and Signature Intelligence (MAISINT).	Any		AMNS <input type="checkbox"/> AMSS <input type="checkbox"/>

**REAL ESTATE/OPERATIONS PERMIT**

Activities That Present Risks, Which Are of a Concern to NNSA/NSO or May Require Coordination	Required Action if Activity Is to Be Performed		Checkmark Responsible Reviewing Organizational Element <sup>2</sup>
	NNSA/NSO Review and Comment	Conduct Readiness Review	
b. Any intelligence Work for Others projects on NTS.	Any		AMNS <input type="checkbox"/> AMSS <input type="checkbox"/>

## REAL ESTATE/OPERATIONS PERMIT

NSO O 412.X1E  
9-11-09

Attachment 4  
Page 1

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### ACRONYMS

AB	Authorization Basis
AFLO	Air Force Liaison Office
AM	Assistant Manager
AMEM	Assistant Manager for Environmental Management
AMNS	Assistant Manager for National Security
AMSO	Assistant Manager for Safety and Operations
AMSS	Assistant Manager for Safeguards and Security
ANSI	American National Standards Institute
CCP	Change Control Page
CFR	Code of Federal Regulations
CRD	Contractor Requirements Document
DoD	Department of Defense
DOE	Department of Energy
DSA	Documented Safety Analysis
FAR	Functional Area Representatives
FFACO	Federal Facility Agreement and Consent Order
FIMS	Facility Information Management Systems
HazCat	Hazard Category
IC	Intelligence Community
JNPO	Joint Nevada Program Office
LUR	Land Use Restriction
M&O	Management and Operating
MEL	Master Equipment List
mrem	Millirem
NAC	Nevada Administrative Code
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Agency
NNSA	National Nuclear Security Administration
NNSA/NSO	NNSA Nevada Site Office

## REAL ESTATE/OPERATIONS PERMIT

Attachment 4  
Page 2

NSO O 412.X1E  
9-11-09

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NST	Nuclear Safety Team
NSTec	National Security Technologies, Inc.
NTS	Nevada Test Site
NTTR	Nevada Test and Training Range
OCC	Operations Coordination Center
OCRWM	Office of Civilian Radioactive Waste Management
OPA	Office of Public Affairs
OUO	Official Use Only
POC	Point of Contact
REOP	Real Estate/Operations Permit
RMC	Risk Management Checklist
RR	Readiness Review
SB	Safety Basis
SME	Subject Matter Expert
SOW	Scope of Work
SMP	Safety Management Programs
TLV	Threshold Limit Value
TSR	Technical Safety Requirements
UCNI	Unclassified Controlled Nuclear Information
USQ	Unreviewed Safety Question
WSHP	Worker Safety and Health Program