Idaho National Laboratory Cultural Resource Monitoring Report for Fiscal Year 2007

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Prepared for the
U.S. Department of Energy
Office of Nuclear Energy
Under DOE Idaho Operations Office
Contract DE-AC07-05ID14517

ABSTRACT

This report describes the cultural resource monitoring activities of the Idaho National Laboratory's (INL) Cultural Resource Management (CRM) Office during fiscal year 2007 (FY 2007). In FY 2007, 40 localities were revisited: two locations of heightened Shoshone-Bannock tribal sensitivity, four caves, three butte/craters, twelve prehistoric archaeological sites, two historic stage stations, nine historic homesteads, a portion of Goodale's Cutoff of the Oregon Trail, a portion of historic trail T-16, one World War II dump, four buildings from the World War II period, and Experimental Breeder Reactor-I, a scientific facility that is designated as a National Historic Landmark and public Visitors Center. Several INL project areas were also monitored in FY 2007. This included direct observation of ground disturbing activities within the Power Burst Facility (PBF, now designated as the Critical Infrastructure Test Range Complex – CITRC), backfilling operations associated with backhoe trenches along the Big Lost River, and geophysical surveys designed to pinpoint subsurface unexploded ordnance in the vicinity of the Naval Ordnance Disposal Area. Surprise checks were also made to three ongoing INL projects to ensure compliance with INL CRM Office recommendations to avoid impacts to cultural resources. Although some impacts were documented, no significant adverse effects that would threaten the National Register eligibility of any resource were observed at any location.

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1. INTRODUCTION

The Idaho National Laboratory (INL) is an 890 square mile federal reserve covering portions of five counties on the northeastern edge of the Snake River Plain in southeastern Idaho (Irving 1993, DOE-ID 1996). Lands included within the boundaries of the INL are under the jurisdiction of the U.S. Department of Energy, Idaho Operations Office (DOE-ID) and have been set aside since the 1940s to support many kinds of scientific and engineering research. Currently, four main contractors perform work for DOE-ID at INL. Battelle Energy Alliance (BEA) is the primary Management and Operations contractor, CH2MHill/Washington Group (CWI) takes the lead on many cleanup operations related to the Idaho Cleanup Project (ICP), Stoller Corp. conducts ecological research, and Bechtel, BWXT Idaho, LLC leads many activities for the Advanced Mixed Waste Treatment project located within the Radioactive Waste Management Complex. INL's Naval Reactor Facility is not under the jurisdiction of DOE-ID and no monitoring was conducted there in FY 2007.

Public access to INL has been restricted since its inception and an active security force patrols all lands and facilities. When encountered, trespassers are removed immediately. Largely as a result of long term access restrictions, many cultural resources on the INL are relatively undisturbed. Vandalism is also reduced due to ongoing security patrols. However, over the past decade, unauthorized access has been noted at some INL cultural resource sites, particularly those within hunting and grazing easements, or with easy access from the paved roads that bisect or are adjacent to INL boundaries. This may be related to reductions in INL Security programs (i.e. elimination of daily helicopter patrols).

Access restrictions and security patrols do not prevent all impacts and damage to cultural resources does occur. There are five primary sources of impact:

- Natural processes such as erosion from wind and water or animal burrowing
- Lack of regular maintenance or inappropriate preservation treatments for historic architectural properties
- Livestock grazing, herding, and associated operations (i.e. watering stations/troughs, feed transport, stock camps)
- Trespassing in highly sensitive areas and unauthorized artifact collection by members of the public and possibly INL employees unaware of penalties associated with these activities
- INL projects that go beyond the limits of their cultural resource clearances as outlined in Environmental Checklists and other documents

Under the INL Cultural Resource Management Plan (DOE-ID 2007a), BEA's INL Cultural Resource Management (CRM) Office maintains an ongoing program for monitoring, assessing, and developing strategies to mitigate impacts to cultural resources as a result of these sources of impact. This report provides a summary of the cultural resource monitoring activities completed in fiscal year 2007 (FY 2007).

2. MONITORING PROGRAM DETAILS

A detailed description of the INL CRM Office monitoring program is located in Appendix L of the INL Cultural Resource Management Plan (DOE-ID 2007a). Monitoring enables INL CRM staff to document if the integrity of known resources is being compromised by natural processes, by unauthorized activities, by lack of maintenance or inappropriate preservation measures, or by INL projects. By identifying impacts to cultural resources in this manner, actions to avert further deterioration can be initiated and federal stewardship responsibilities are fulfilled.

Specific cultural resources are chosen for monitoring based on feedback from DOE-ID, the Shoshone-Bannock Tribes, and INL stakeholders. The INL CRM archives, which include documentation of over 2,200 archaeological resources and more than 200 historic architectural properties on the INL, are also consulted for appropriate candidates for yearly monitoring. Both DOE-ID and the Shoshone-Bannock Tribes are often directly involved in fieldwork during the monitoring activities at these sensitive locations and other stakeholders, such as the Idaho State Historic Preservation Office (SHPO), participate occasionally. Certain resources, like Middle Butte, Prickly, and Aviators Caves, sensitive localities inside the Power Burst Facility (now Critical Infrastructure Test Range Complex-CITRC), and the Experimental Breeder Reactor-I National Historic Landmark, are monitored every year. Others, such as historic homesteads and some archaeological sites are also visited routinely because of their location in highly visible areas where trespassing has been a problem in the past. Each year INL CRM staff also conduct surveillance of resources in a wide variety of settings to address ongoing research interests.

Monitoring of INL projects is typically done under direct project funding and may be included as part of an INL Environmental Checklist or other environmental guidance. In FY 2007 monitoring was targeted at several different INL projects and involved different INL contractors. In one FY 2007 example, a Memorandum of Agreement between DOE-ID, the Idaho State Historic Preservation Office, and the Advisory Council on Historic Preservation and associated National Environmental Policy Act (NEPA) Environmental Assessment (DOE-ID 2002) mandated the surveillance and in another, monitoring was stipulated as part of a Finding of No Significant Impact associated with another NEPA Environmental Assessment (DOE-ID 2007b).

Project-specific monitoring is also routinely completed in the sandy aeolian soils inside the boundaries of the Power Burst Facility (PBF) complex (now known as the Critical Infrastructure Test Range Complex-CITRC), where Native American human remains have been discovered in both primary and secondary contexts. Cultural resource monitoring of projects that involve excavation within this facility complex is routine and required by company procedures (BEA's LWP-8000, CWI's MCP-3480). This level of cultural resource oversight ensures that any new discoveries of human remains are managed appropriately.

Forms developed by the INL CRM Office are completed for every cultural resource monitoring trip. Hard-copy and electronic versions of these documents are maintained in the INL CRM archives and are reproduced for FY 2007 here in Appendix A to this report. INL CRM archives also include a variety of photographic documentation of monitoring efforts, reproduced here only in part due to the extremely large size of these high quality electronic images.

Under the INL CRM monitoring program, there are four possible findings for a given monitoring trip, based on the level of disturbance noted:

• **Type I**: no visible changes to a cultural resource and/or a project is operating within the limits of cultural resource clearance recommendations

- Type II: impacts are noted but do not threaten the National Register eligibility of a cultural resource and/or a project is operating outside of culturally cleared limitations but no cultural resources have been adversely impacted
- Type III: impacts are noted that threaten the National Register eligibility of a cultural resource and/or a project has been operating outside of culturally cleared limitations and impacts to non-eligible cultural resources have occurred
- **Type IV**: impacts that threaten the National Register eligibility of a cultural resource are occurring during the monitoring visit, justifying the use of the INL Stop Work Authority (LWP-14002, MCP-553)

If Type II, III, or IV impacts are documented during a monitoring trip, notifications are made to project managers, the DOE-ID cultural resources coordinator, and various other parties according to the severity of the disturbance and DOE-ID's discretion. Typically, Type II impacts can be corrected at once with the cooperation of INL project managers, security personnel, and/or landlord organizations. In these instances, the impacts are only reported in summary fashion in year end reports. Some Type II and all Type III or IV impacts prompt formal investigations by the INL CRM Office. INL project managers, security, and/or landlord organizations, DOE-ID, and Shoshone-Bannock tribal representatives may also participate in these investigations.

Results of all monitoring and formal impact investigations are summarized annually in a year-end report to DOE-ID (cf. DOE-ID 2006a) and also appear in a higher level summary of INL CRM Office yearly activities (cf. DOE-ID 2006b) that is sent to DOE-ID and other parties such as the Idaho State Historic Preservation Office, the Shoshone-Bannock Tribes, and stakeholders.

3. RESULTS OF FY 2007 MONITORING

In all, 50 monitoring forms were completed throughout the year, including visits to 40 known resources, five projects, and three ground-disturbing activities within the PBF/CITRC (Appendix A). The DOE-ID cultural resources coordinator and tribal members from the Shoshone-Bannock Heritage Tribal Office (HeTO) participated in many of the trips and at their request, multiple trips were made to several INL Caves. The Powell Stage Station (10-BT-2194) was also revisited multiple times, largely due to the high level of activity in the vicinity associated with a large scale backfilling project. These and other monitoring results are detailed in the sections to follow. Although some impacts were documented during the year, none were determined to be adverse.

3.1 Individual Resources

In FY 2007, INL CRM staff conducted official surveillance of 40 individual cultural resources. As noted in the discussions to follow, a handful of resources were visited on multiple occasions. Forms that document individual observations and recommendations are included in Appendix A.

3.1.1 Resources of High Tribal Sensitivity

Two INL localities that include sensitive Native American human remains are visited at least once a year for monitoring and stabilization, as necessary. These are Prickly Cave (10-BT-2037) and the Waste Experimental Reduction Facility (WERF) remains (10-BT-2046). In FY 2007, no new or adverse impacts were observed at the WERF site (10-BT-2046) and measures to stabilize the sensitive remains at this locality appear to remain adequate. However, Type II impacts were documented at Prickly Cave (10-BT-2037) late in the year.

Prickly Cave (10-BT-2037) is a natural lava tube brought to the attention of the INL CRM Office by security helicopter pilots in the late 1980s (Figure 1). At various times in the prehistoric past, the Cave



Figure 1. Entrance to Prickly Cave.

was used as a burial site for at least two Native American individuals. Human bones and perishable artifacts are located inside the lava tube and nonperishable materials occur in a scatter over the ground surface above. In the early 1990s, additional Native American human bones were salvaged from a disturbed context at the Power Burst Facility (10-BT-1991) and placed for safekeeping into Prickly Cave according to Shoshone-Bannock wishes. Since that time, yearly visits have been made to ensure that the Cave and its sensitive contents remain undisturbed.

During the FY 2007 Prickly Cave visit, INL CRM Office staff and Shoshone-Bannock tribal representatives discovered that a human bone had been transported out of the protection of the Cave interior and deposited at ground surface. Preliminary evidence indicates that animals were the culprits in this Type II impact and that it occurred fairly recently as the bone appeared unharmed. No evidence of unauthorized human or INL project activity was observed. As of this writing the bone has been replaced in the Cave, notifications have been made to DOE-ID, and Shoshone-Bannock tribal counterparts are making necessary notifications at Fort Hall. Due to the elevated sensitivities related to this location an expanded investigation will be completed in FY 2008 to develop appropriate remediation.

3.1.2 Caves

All INL lava tube caves are particularly important to Shoshone-Bannock tribal members and HeTO staff. Caves also contain significant archaeological components, either inside the cave, on the surface around the cave, or both. Multiple yearly monitoring visits are often completed as a result. In FY 2007, Aviators Cave (10-BT-1582), Middle Butte Cave (10-BM-34), Moonshiners Cave (10-BM-48), and Rattlesnake Cave were monitored. At Moonshiners Cave, a range fire burned across the ground surface, removing vegetation and probably affecting surface artifacts. However, no impacts were documented during three visits there in FY 2007. Additional investigations will be completed in FY 2008. No impacts were documented during visits to the other INL Caves monitored in FY 2007 either. To aid in the future identification of unauthorized visitation at these sensitive localities, footprints created during future monitoring efforts will be lightly swept away at the completion of the official surveillance.

3.1.3 Buttes and Craters

INL contains many low buttes and craters with complex archaeological sites spanning thousands of years of human occupation. Rattlesnakes are also a common component at these localities and must be considered when planning field work. In FY 2007, INL CRM staff visited three of these sites, including Radio Butte (10-BM-96), Circular Butte (10-JF-95) and Cinder Butte. No new adverse impacts were documented at any of these locations.

3.1.4 Prehistoric Archaeological Sites

There are thousands of prehistoric archaeological sites within INL boundaries, ranging in age from more than 10,000 to 150 years old. The great antiquity of many of these sites is notable and provides justification for routine visitation and care to prevent adverse impacts. In FY 2007, INL CRM staff visited twelve prehistoric archaeological sites to assess impacts. No new impacts were documented during visits to the following localities: the Pioneer Site (10-BT-676), Juniper Bends (10-BT-675), the Borax Pit Haskett Site (10-BT-1227), the Windgap Folsom Site (10-BT-1449), and the Big Lost River Folsom site (LMIT-99-02-07). General impacts from grazing and wild animal traffic were observed at 10-JF-102 near the north end of INL, but previously recorded artifacts remained undisturbed there.

Several prehistoric archaeological sites were monitored in FY 2007 to assess impacts in relation to specific INL project activities (see Section 3.2 for additional detail on project-specific monitoring). At three prehistoric campsites located along the Big Lost River (10-BT-2192, 10-BT-2193, 10-BT-2189), no new impacts were observed as nearby backhoe trenches were backfilled. Similarly, a fourth prehistoric campsite (10-BT-1974) on the floodplain demonstrated no adverse effects associated with off-road use of a 6-wheeled All Terrain Vehicle (ATV) and cart conducting geophysical surveys to identify buried unexploded ordnance. However, this locality did exhibit disturbance from animal burrowing. At the Hellofasite (10-JF-88) and 10-JF-135, where prehistoric camps and rock structures are located, no impacts from ongoing explosive testing at the nearby National Security Test Range were apparent, but

this must be confirmed through analysis of seismic data collected by project personnel in compliance with requirements of a NEPA Environmental Assessment (DOE 2007b).

During FY 2007 visits to archaeological sites located along Road T-25, ground disturbance associated with routine maintenance of power poles was observed. Type II impacts were documented at two archaeological sites as a result (Hellofasite-10-JF-88 and 10-JF-135) (Figure 2). Impacts consisted of heavy vehicle access and probable grading of sandy surface soils to the base area of power poles within the site areas. Consultation with BEA Facilities and Site Services and Power Management organizations indicates that this ground disturbance has been ongoing on a routine basis since installation of the power line (circa 1950). Maintenance crews report that they are careful to limit their activities to areas that have been previously disturbed. At Hellofasite (10-JF-88), impacts are lessened somewhat because gravel fill was apparently brought in during original construction of the powerline to provide a base for installation of the poles. Although heavy equipment has been taken from the existing road across the western portion of the site, most of the ground disturbance appears to have been focused in the area where the gravel fill was deposited. The rock structures at this site remain unharmed. Ongoing consultation in FY 2008 will address these activities and ensure that INL CRM staff is invited to provide feedback on future maintenance of this nature.





Figure 2. Type II impacts documented at 10-JF-135 (left) and 10-JF-88 (Hellofasite, right) from powerline maintenance. Note gravel fill beneath poles on the right.

3.1.5 Historic Trails and Stage Stations

INL lands are crossed by a multitude of unimproved trails, many dating to historic times around the turn of the 20th Century. These trails were important links between communities along the Snake River (e.g. Blackfoot and Eagle Rock/Idaho Falls) and those located in mountain valleys to the west and north (e.g. Mackay, Howe, Arco). People, goods, and stock passed freely along the established paths and encouraged economic growth in the region. Continued sporadic travel on the trails today by modern vehicles ensures that they remain visible on the contemporary landscape and is actually a positive impact. However, heavy vehicle traffic and inappropriate maintenance can adversely impact the trails and destroy the context of nearby archaeological resources like the remnants of stagecoach stations.

In FY 2007, adverse impacts related to inappropriate FY 2002 maintenance were still visible along one important INL trail, T-1/Goodale's Cutoff. Fortunately, undisturbed segments of this northern spur of the Oregon Trail do remain on INL lands and in places, exhibit original wear from wagon wheels. Metal scrapings, loose horse shoe nails, and broken wagon parts were also found in FY 2007 where the going was apparently rough. A second historic trail, T-16, was also investigated in FY 2007. This trail passes by many historic homesteads on the way south to the Cerro Grande townsite/railroad siding. Monitoring showed that the trail and nearby sites are in jeopardy from overuse related to modern grazing practices. INL CRM staff will work through DOE-ID to consult with the Bureau of Land Management in FY 2008 to address these impacts. Remediation might include additional survey of the road and working toward designating specific areas to locate temporary stock camps and watering stations.

Archival investigations and field surveys along historic trails have resulted in the recording of two historic stage stations on INL lands: the Powell Station and the Birch Creek Station. Both were monitored in FY 2007. One site, the Powell Station (10-BT-2194), was visited numerous times because heavy equipment was deployed within and near its boundaries during a large backfilling operation (see Section 3.2.1). The site is currently notable for its dense concentration of domestic debris, multiple basalt cobble foundations, and several basalt bridge abutments. No new impacts occurred at the stage station as a result of the backfilling project. The trail that leads to the Powell Station (T-2) also remains relatively undisturbed in spite of backhoe trenches located a short distance away. As shown in Figure 3, animal burrowing in and around structural remains at this location is causing impacts and necessitates ongoing observation and possibly intervention.



Figure 3. Animal burrowing activity at Powell Stage Station (10-BT-2194). Note orange fencing marking backhoe trench location in background.

During FY 2007 monitoring, no new adverse impacts were observed at the Birch Creek Station located in the northern portion of the INL along the now-dry channels of Birch Creek (BEA-07-32-115). Notably, during the FY 2007 field visit to this site, INL CRM staff identified a significant artifact, an 1889 Liberty Seated dime, and noted ongoing impacts from modern grazing practices. However, the significant structural remains and surface artifacts at the site do not appear to be threatened by these activities. Although both stage stations appear to be free of impact related to INL projects, burrowing animals are at work in each location, impacting structural remains at each site (Figure 3). Continued monitoring is scheduled for these locations to determine if these impacts are becoming adverse.

3.1.6 Historic Homesteads

During the period from 1884 to roughly 1930, many hardy and intrepid settlers filed homestead claims on lands that would eventually be designated as the INL. U.S. federal laws that encouraged settlement of western deserts were the primary catalysts for these activities. In the INL region, the Carey Land Act of 1894 and the Desert Reclamation Act of 1902 were especially important and influential. INL CRM staff members continue to investigate archival and archaeological evidence to learn more about these activities.

In FY 2007, nine previously recorded historic archaeological sites were investigated to assess potential impacts and in some cases, to arrive at correct site type classifications (i.e. homestead, trash dump, stock camp, survey camp). Three of the sites investigated in FY 2007 (BEA-05-44-10, BEA-05-44-11, BEA-05-44-12) were noted as "houses" on early 1918 survey maps of the area. After a range fire in FY 2007, artifacts and features were readily apparent at these locations and all appear to be best classified as homesteads. Although fire has probably affected individual artifacts on these sites, these impacts are not adverse. The presence of milled wood, in spite of the fire, suggests that the effects were modest.

A fourth homestead (10-BT-269) was revisited in FY 2007 to ensure that it is in no danger of impact from increased activities by CWI on the east side of the Idaho Nuclear Technology and Engineering Center facility (see Section 3.2.4). No new impacts were observed. In a fifth case, off-road ordnance surveys utilizing a 6-wheeled ATV and equipment cart under strict conditions captured in a related Environmental Checklist, were monitored through the area of a documented homestead (LMIT-99-08-12) to assess the impacts associated with this kind of project activity. No artifacts were broken or displaced and structural remains were unaffected by the off-road survey, although unassociated impacts related to animal burrowing were documented. Additional information on this project is provided in Section 3.2.5.

3.1.7 World War II Sites

Beginning in 1942, the central portion of the INL was used by the U.S. Navy as one of only six World War II "Proving Grounds." It was the only site where the large-caliber guns and ammunition used by the Navy's Pacific Fleet were tested. Located in what is now the INL Central Facilities Area (CFA) was a Residential Area where military officers, soldiers, civilian employees and their families lived year round. A large domestic dump located a few miles west of the Residential Area provides a rare glimpse into these vintage 1940s households. Monitoring of this site (BEA- 08-05-CFM-01) in FY 2007 showed no new impacts to the artifact concentration and confirmed the continued presence of several notable artifacts such as the toy train depicted in Figure 4.



Figure 4. Toy train located at the World War II domestic trash dump west of Central Facilities Area.

In FY 2007, several brick buildings that remain from the World War II period (CF-606, CF-607, CF-613, and CF-632) were monitored. These properties are currently in inactive status. All utilities have been severed, some asbestos has been removed, and maintenance has largely been suspended as they evolve from targets for demolition to recognized features of the historic landscape. During this surveillance, Type II impacts were noted at all four buildings. The cumulative effects of minimal maintenance were obvious in the form of deteriorating porches and landscaping, interior and exterior water damage, failure of portions of interior ceilings, extensive accumulation of rodent nesting materials, cracks and breaks in windows, deteriorating and damaged water drainage systems, damage to foundations from vegetation, and spalling concrete (Figure 5). Several recommendations were made to alleviate or correct the identified impacts and were communicated via a letter report (Braun, November 17, 2006). Consultation with the BEA Facilities and Site Services organization will continue in FY 2008 toward resolution of these issues.





Figure 5. Water damaged interior (ceiling, left) and exterior (trim and roof, right), CF-613.

3.1.8 Experimental Breeder Reactor I

Experimental Breeder Reactor-I (EBR-I) is INL's single National Historic Landmark, recognized as such because of its association with the early development of nuclear power and reactor technology. It is the only INL facility open to the public on a seasonal basis (Memorial Day through Labor Day, annually). In past years, the site has benefited from a "Save America's Treasures" grant, which supported updated exhibits to enhance the Visitors Center and addressed some preservation issues (brick and mortar restoration) (Braun 2006). In FY 2007, a lead-shielded locomotive was moved into an area just north of the EBR-I parking lot for public educational purposes. Prior to this move, a consultation letter was sent to the Idaho SHPO and an invitation to consult was sent to the National Park Service and Advisory Council on Historic Preservation as required by Programmatic Agreement. All parties concurred that no adverse impact resulted from this move to EBR-I. No other new impacts were observed from project or visitation activities at EBR-I. Efforts to address ongoing maintenance and preservation continued and recommendations were made to fix technical problems related to the educational displays and to install an adequate water drainage system.

3.2 Projects

Project-specific cultural resource monitoring in FY 2007 took several different forms. In one type, cultural resources recorded in the vicinity of INL projects were revisited to determine if any unanticipated impacts had occurred. In a second type, an INL CRM staff member directly observed ground disturbance associated with INL project activities. This type of monitoring occurred for projects that originally resulted in effects to cultural resources, but those effects were rendered "not adverse" through consultation and mitigation. Having a qualified archaeologist on hand to take care of any sensitive finds uncovered during ground disturbance is an accepted and widely employed tool for cultural resources mitigation in these situations. In a third type of monitoring, INL projects were randomly selected and audited for compliance with cultural resource recommendations made during the INL environmental review process. In total, six projects were monitored. Results appear in the sections to follow.

3.2.1 Big Lost River Trenches Backfilling and Revegetation

In 2002, DOE-ID, the Bureau of Reclamation, and various University partners initiated a paleohydrology study to develop a defensible and consistent interpretation of flood history and flood hazards on the INL. Several backhoe trenches excavated into Big Lost River floodplain deposits near the modern riverbed were necessary to support this investigation. INL CRM staff assisted this project in the assessment and mitigation of impacts to cultural resources (Pace 2002a, 2002b). A NEPA Environmental Assessment and Memorandum of Agreement between DOE-ID, the Idaho SHPO, and Advisory Council on Historic Preservation guided project activities at one trenching location (DOE-ID 2002).

In FY 2007, plans were initiated to backfill and revegetate the trenches under the direction of Stoller Corporation, DOE-ID's contractor with expertise in ecology. In compliance with the NEPA documentation and associated Memorandum of Agreement and recent recommendations from INL CRM staff and Shoshone-Bannock tribal representatives, Stoller Corporation provided support for archaeological and tribal monitoring of ground disturbance during all phases of this work.

Care was taken by project personnel during backfilling and revegetation to avoid additional impacts, particularly at trenches that were originally excavated into sensitive archaeological deposits or near sensitive historic features. At the Saddle area, this included two prehistoric archaeological sites (10-BT-2192, 10-BT-2193), the Powell Stage Station (10-BT-2194), and the T-2 stage road. At the BLR-8 trench area, one large prehistoric archaeological site (10-BT-2189) was of concern. A variety of artifacts

remain at the surface at all of the trench locations. Geotextile fabric originally placed beneath the backdirt piles at the BLR-8 area to protect sensitive surface deposits from mixing required some time and care as the backdirt was scraped away to expose the underlying fabric. Once exposed, the fabric maintained enough strength and integrity to pull back the remaining backdirt and expose essentially undisturbed deposits beneath (Figure 6). It appears that this method worked well to protect some sensitive surface areas adjacent to the trenches. Efforts on the part of all project personnel to limit ground disturbance to previously impacted areas also helped to avoid new impacts. Cultural features like the T-2 stage road and old bridge abutments at the Powell Stage Station, located less than 20 meters from a trench, were also protected from new impacts.



Figure 6. Removal of geotextile fabric from surface at site 10-BT-2189 at the location of the BLR-8 backhoe trench. Note undisturbed surface preserved beneath the fabric.

3.2.2 National Security Test Range

The Environmental Assessment completed for the National Security Test Range (DOE-ID 2007b) included minimal requirements for protection of cultural resources such as:

- Coordinate modifications to road T-25 (powerline road), new access road construction, and development of primary and secondary administrative areas with INL CRM to avoid blading and leveling activities inside the boundaries of identified archaeological sites
- Provide training in cultural resource protection for all test range personnel and escort visiting personnel to prevent accidental disturbance of cultural artifacts
- Monitor ground motion at nearby archaeological sites during the first three [explosive] experiments (> 5,000 lb explosives) and with every experiment at or exceeding 15,000 lb explosives, unless data indicates sites are not affected
- Support yearly visits of known archaeological resources in the project area and take additional protective measures as necessary

Additional recommendations were included in a survey report completed in advance of the project (Pace et al. 2006). In FY 2007, two monitoring visits were completed for this project. During the first visit, INL CRM staff worked closely with road maintenance personnel to avoid impacts to archaeological sites located along the T-25 powerline access road during blading (Figure 7). All impacts were avoided during this stage of the road maintenance work as a result of this cooperation.



Figure 7. Road maintenance and archaeological resource avoidance during upgrades to the T-25 powerline access road.

During a second FY 2007 trip, monitoring was completed to assess ongoing overall compliance with the minimal requirements of the NEPA Environmental Assessment. At this time, several problems were observed: project activities extended into unsurveyed areas, vehicle turnarounds had been created inside the boundaries of known archaeological sites as gravel was added to road T-25, and project personnel had not been trained in cultural resource awareness and protection. Although no obvious impacts from ongoing explosive testing were observed at Hellofasite (10-JF-88), located approximately 1.3 miles from the center of the Test Range, seismic data to confirm a lack of ground motion at this sensitive location had not been provided for cultural resource consideration. BEA project personnel were contacted immediately to discuss these issues and begin the process of correcting them to prevent impacts to cultural resources. These efforts are ongoing in FY 2008 with the assistance of DOE-ID and the BEA Environmental Support organization.

3.2.3 Wireless Test Bed

Project developments associated with the INL Wireless Test Bed project in FY 2007 included an expansion to the Drive-By Test pads along Filmore Blvd. and addition of a new test tower associated with an existing powerline nearby. During a monitoring visit early in FY 2007, it was clear that ground disturbance was restricted to the surveyed areas and no sensitive cultural materials were being impacted by this ongoing BEA project.

3.2.4 Concrete Batch Plant

In FY 2007, a temporary concrete batch plant located west of the Idaho Nuclear Technology and Engineering Center was modified by CWI, DOE-ID's cleanup contractor, for permanent placement to

support intensive ongoing and future decontamination and demolition in the area. A cultural resource monitoring visit was completed to check on compliance with cultural resource recommendations. At this time, all project activities were limited to highly disturbed areas where previous cultural resource surveys revealed no concerns. A historic homestead (10-BT-269) was also determined to be well outside the area of potential effects for the concrete plant and associated laydown areas.

3.2.5 Geophysical Surveys for Subsurface Unexploded Ordnance

From 1942 to 1949 and again in 1968, lands and facilities that are now part of the INL filled an important role in national defense as part of the Arco Naval Proving Ground. During these times, the U.S. Navy and Army built facilities to test-fire large naval guns used during World War II and the Vietnam War, practiced aerial bombing techniques, conducted tests to determine the most effective ways of transporting and storing ammunition and ordnance, and disposed of old ordnance devices and components that were no longer useful. One area used extensively for ordnance disposal and testing is now designated as the Naval Ordnance Disposal Area (NODA).

Cleanup of the unexploded ordnance (UXO), ordnance components, and explosive compounds that remain from these activities has been ongoing at INL since 1994. Archaeological surveys have been completed to identify archaeological resources within defined ordnance areas, including NODA, and assess the potential effects of cleanup activities on them (cf. Ringe 1994). In FY 2007, geophysical surveys were initiated to evaluate UXO that still remains beneath the surface at NODA. Magnetometers are being utilized on a 2-meter grid for this mapping.

In FY 2007, INL CRM staff included several area and project specific conditions in the project Environmental Checklist to enable the project to move forward and to reduce the potential for impacts to cultural resources. One recommendation included INL CRM staff participation in the surveys to redirect project activities if impacts to sensitive archaeological sites were occurring. Throughout FY 2007, INL CRM staff participation in the magnetometer surveys ensured that the 6-wheeled all terrain vehicle (ATV) and equipment cart used to complete the work would have no adverse effects on known historic and prehistoric archaeological sites in the NODA cleanup area. The ATV and cart are depicted in Figure 8.



Figure 8. Geophysical surveying equipment utilized at the Naval Ordnance Disposal Area.

In the gravelly floodplain soils common to the NODA, impacts from the ATV and cart were minimal (Figure 9). In sandier deposits, slight lateral displacement of soils was observed in the tracks of the ATV, but even these effects in these particular soils were negligible and not much greater than heavy foot traffic. At prehistoric site 10-BT-1974 and homestead LMIT-99-08-12, no adverse impacts occurred. In FY 2008, the magnetometer data collected from these localities will be analyzed for information that may aid in the study and interpretation of these archaeological sites. The ATV and cart may also be considered and evaluated for use in other ordnance cleanup areas on a case-by-case basis.



Figure 9. Portion of Naval Ordnance Disposal Area after Survey with 6-Wheeler and Cart. Note slight indentations in vegetation extending away from the camera toward the distant powerline.

3.2.6 Miscellaneous Project Activities at the Critical Infrastructure Test Range Complex/Power Burst Facility

Company environmental procedures require project managers to contact the INL CRM Office in advance of ground disturbance within the fenced boundary of CITRC/PBF. This is due to the occurrence of human remains in original as well as secondary contexts at two separate locations within the facility. Accelerated cleanup across the INL and new activities to support National Security have resulted in an increase in the number of projects at this facility. In FY 2007, these activities included removal of a subsurface tank, parking lot grading, and mowing. On three occasions in FY 2007, ground disturbance of this nature was monitored for human remains. No sensitive materials were observed at any time.

4. RECOMMENDATIONS

Monitoring is an effective method of documenting impacts to INL cultural resources. Several broad recommendations result from FY 2007 surveillance. First, at a minimum, the condition of the following resources of high sensitivity should be assessed in FY 2008:

- Middle Butte Cave (10-BM-34)
- Aviators Cave (10-BT-1582)
- Pioneer Site (10-BT-676)
- Prickly Cave (10-BT-2037)
- WERF Remains (10-BT-2046)
- Powell Stage Station (10-BT-2194)
- Experimental Breeder Reactor I National Historic Landmark
- Goodale's Cutoff

In FY 2008, INL CRM staff should also work with DOE-ID, HeTO, and project personnel, as appropriate, to complete investigations and implement protections to prevent future impacts at Prickly Cave (10-BT-2037), EBR-I, and the World War II buildings at Central Facilities Area (CF-606, CF-607, CF-613, and CF-632). Ongoing natural impacts from burrowing animals at INL's historic stage stations (10-BT-2194, BEA-07-32-115) should also be tracked and mitigation initiated, as necessary.

In the project realm, ongoing CRM staff participation in ordnance surveys and controlled offroad use of the ATV and cart at NODA should continue. The method should also be evaluated for deployment at other ordnance areas as appropriate based on a case-by-case review. Enhanced communications must also be established with BEA Facilities and Site Services personnel to address impacts during ongoing powerline repair and maintenance. Finally, additional consultation and work with project managers is necessary to prevent impacts as a result of ongoing activities at the National Security Test Range. Here, future monitoring of the rock features and extensive surface artifacts at Hellofasite (10-JF-88) and the many archaeological sites located along the T-25 powerline road are imperative.

It is also recommended that monitoring also be conducted at several broad classes of other INL cultural resources and projects, as funding allows. At a minimum, this includes:

- Archaeological sites located in high traffic areas such as the INL boundary and Grazing Boundary or where unauthorized visitation is likely
- Historic homesteads, including those identified during ongoing archival research
- Historic trails
- Buttes, craters, and caves
- Late Pleistocene/Early Holocene archaeological sites

- World War II buildings and features at Central Facilities Area and within the broader Naval Proving Ground
- Exhibits at EBR-I, including the aircraft engines and locomotive
- Experimental Breeder Reactor-II
- Select INL projects

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APPENDIX A:

Field Monitoring Forms

Appendix A contains electronic versions of FY 2007 monitoring forms originally completed in the field. In a few cases, when no new impacts were observed, multiple field visits to the same site location are documented on a single form. FY 2007 forms are organized according to the following categories presented in the preceding report:

- Resources of High Tribal Sensitivity
- Caves
- Buttes and Craters
- Prehistoric Archaeological Sites
- Historic Trails and Stage Stations
- Historic Homesteads
- World War II Sites
- Experimental Breeder Reactor-I
- Projects

A: Resources of High Tribal Sensitivity

Monitor Number:	CFM-15
Monitor Name(s):	Clayton Marler, Carolyn Smith, JoEtta Buckhouse
Monitor Date:	9/25/07
O:4- N /N	Driekly Cove
Site Name/Number: Reason for monitor	
Reason for infolitor	ing. Noutine
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	Biological; packrats, coyote, pronghorn (tracks noted just outside the cave entrance). The interior of the cave is packrat habitat and cultural materials have been scattered and jumbled extensively over the years. Fresh coyote scat was noted inside the cave and on the ledge immediately outside the cave.
Significance of Imp	The impact does not affect NRHP eligibility
If yes, describe:	impact extend into undisturbed areas? Yes x No The human mandible from the cave interior was found ca. 10m to the south of the cave entrance. The mandible appeared in excellent condition and doesn't look as if it has been outside for long.
Work Halted? If yes, describe: _	Yes No
Notifications:	Shoshone Bannock Tribes, DOE
Primary contact(s):	
Date contacted:	Julie Braun, Willie Preacher contacted 9/25/07. Robert Gallegos contacted 9/26/07
Contact Method:	E-mail Phone x Official correspondence, CCN#:
	Thin lithic scatter around the cave entrance. Also noted were a white quartzite knife that had been seen on past visits and a small fragmented obsidian arrow point. Although an exhaustive search was not conducted inside the cave, human bones were noted along with some of the previously discovered cultural items.
Cultural Materials o	collected? Yes No x
General Comments	:
Recommendations	A more detailed search of the cave's interior should be undertaken (Scheduled for October). An inventory of artifacts outside of the cave should be conducted, locations mapped and a site form completed. Continue monitoring at least once per year.
	ocumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: CFM	Date: 9/25/07

Monitor Number:	BRP-06
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert
Monitor Date: \(\)	June 15, 2007
Site Name/Number	: WERF Remains/10-BT-2046
Reason for monito	
	Protection and Repatriation Act Disposition Plan and Shoshone-Bannock
	tribal wishes
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Rodent burrows, weeds
Significance of Imp	Dact: Impacts are minor and have not impacted the sensitive remains.
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X Human remains continue to be stabilized beneath approximately 300 cubic yards of
_	fill. Fence installed around the perimeter of the sensitive area continues to protect
_	the soil berm where the human remains are located.
Work Halted?	Yes No X
If yes, describe:	N/A
Notifications:	None
Primary contact(s)	
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	observed? Yes No X
If yes, describe:	Inspection of entire stormwater basin where remains were identified revealed no
_	cultural materials or human remains at the surface.
Cultural Materials	
If yes, describe: _	N/A
General Comments	
Recommendations	
	the soil berm and growth of invasive/noxious weeds in the area.
Attach additional d	locumentation, as warranted (photos, profiles, etc.) Yes No X
Initials: BRP	Date: June 15, 2007

Appendix A: Caves

Monitor Number:	CFM-06
Monitor Name(s):	Clayton Marler, Julie Braun, Robert Gallegos, LaRae Buckskin, Carolyn Smith,
S	Sonny Alvarez
Monitor Date: 5	5/31/07; 7/26/07
Site Name/Number:	_10-BT-1582
Reason for monitoring	g: Routine
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impact	t:
Did disturbance or im If yes, describe:	pact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications:	
Primary contact(s): _	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials obs	nse lithic scatter surrounding the cave entrance
Cultural Materials coll If yes, describe:	ected? Yes No x
General Comments:	This site has been impacted in the past by fire suppression activities
Recommendations:	Continue monitoring at least twice per year. Sweep footprints upon exiting the cave.
	umentation, as warranted (photos, profiles, etc.) Yes X No
Initials: CFM	Date: 5/31/07; 7/26/07

	CFM-09	
Ionitor Name(s): Clayton Marler, LaRae Buckskin, Carolyn Smith, Sonny Alvarez, Dino Lowrey		
Monitor Date:	6/20/07; 6/27/07; 7/26/07	
Site Name/Number: Reason for monitoring	10-BM-48 Routine and post-fire check	
Findings:	Type 1 X Type 2 Type 3	Type 4
Impact Agent(s): Significance of Impac	:t:	
Did disturbance or im If yes, describe:	pact extend into undisturbed areas?	No
Work Halted? If yes, describe:	Yes No	
Notifications: Primary contact(s):		
Date contacted:		
Contact Method:	E-mail Phone Official correspondence, CCN#:	
	2 mail	
	served? Yes x No storic debris noted in and around the cave along with a sparse flake se small Elko point on the cave exterior	catter and
Cultural Materials coll	lected? Yes No x	
General Comments:	Previous impacts to the site include vehicular traffic and 1970s fire work	
Recommendations:	An updated site form should be prepared. Continue monitoring at per year	least once
	umentation, as warranted (photos, profiles, etc.) Yes x	No
Initials: CFM	Date: 6/20/07; 6/27/07; 7/2	6/07

Monitor Number:	CFM-10		
Monitor Name(s): Clayton Marler, LaRae Buckskin, Sonny Alvarez			
Monitor Date:	6/27/07; 7/26/07		
Site Name/Number: Reason for monitori	Rattlesnake Cave		
Findings:	Type 1 x Type 2 Type 3 Type 4		
Impact Agent(s): Significance of Impa	nct:		
Did disturbance or in	mpact extend into undisturbed areas? Yes No		
Work Halted? If yes, describe:	Yes No		
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:		
Cultural Materials ob If yes, describe:T	oserved? Yes x No hin lithic scatter		
Cultural Materials co	ollected? Yes No x		
General Comments: Recommendations:	This site has been previously impacted by a two-track road leading to the cave. This site should be formally recorded. Continue monitoring once per year.		
	cumentation, as warranted (photos, profiles, etc.) Yes X No		
Initials: CFM	Date : _6/27/07; 7/26/07		

Monitor Number: <u>CFM-13</u>			
Ionitor Name(s): Clayton Marler, LaRae Buckskin, Carolyn Smith, Sonny Alvarez			
Ionitor Date: 7/26/07			
Site Name/Number: 10-BM-34 Reason for monitoring: Post-fire check			
Findings: Type 1 x Type 2	Type 3 Type 4		
Impact Agent(s): Significance of Impact:			
Did disturbance or impact extend into undisturbed areas If yes, describe:	s? Yes No		
Work Halted? Yes No			
Notifications: Primary contact(s): Date contacted: Contact Method: E-mail Phone Official	I correspondence, CCN#:		
Cultural Materials observed? Yes x If yes, describe: Sparse flake scatter on cave exterior; pic	No ctographs inside the cave		
Cultural Materials collected? Yes	No x		
General Comments: Recommendations: This site has been impacted in the An updated site form should be preper year	past by vehicular traffic and graffiti epared. Continue monitoring at least twice		
Attach additional documentation, as warranted (photos, lf yes, describe:	profiles, etc.) Yes No x		
Initials: CFM	Date: _7/26/07		

Monitor Number:	BRP-17
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert
Monitor Date:	September 7, 2007
Site Name/Number Reason for monito	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Im	No new impacts noted Cave was not impacted by fire or INL fire-fighting efforts
Did disturbance or If yes, describe:	impact extend into undisturbed areas? N/A Yes No X
Work Halted? If yes, describe:	Yes No X N/A X
Notifications: Primary contact(s) Date contacted: Contact Method:	None required under Type 1 finding N/A N/A E-mail
Cultural Materials If yes, describe: - - - -	Middle Butte Cave includes a light scatter of debitage around the rim of the entrance crater and pictographs on interior walls. Numerous fire hearths are also present near the mouth of the cave but many of these are modern. Some historic and modern graffiti also occurs on interior walls. The area is of cultural importance to the Shoshone-Bannock Tribes and is the subject of a special access agreement between the Tribes and DOE-ID.
Cultural Materials If yes, describe:	collected? Yes No X
General Comment	Cave appears to be unharmed from fire or fie-fighting efforts. Main fire break is located approximately ¼ mile to the east.
Recommendations	Continue routine monitoring and special monitoring in the event of a fire or other potential impacting agent.
Attach additional o	documentation, as warranted (photos, profiles, etc.) Yes No X
Initials: BRP	Date: September 7, 2007

Appendix A: Buttes and Craters

Monitor Number:	CFM-02
Monitor Name(s):	Clayton Marler, Dino Lowrey
Monitor Date:	4/12/07
Site Name/Number:	ISU-03-01-P28 (Cinder Butte)
Reason for monitor	, ,
	g
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	
Significance of Imp	act:
Did disturbance or i	impact extend into undisturbed areas? Yes No
If yes, describe:	
_	
Work Halted?	Yes No
If yes, describe:	
_	
Notifications:	
Primary contact(s):	
Date contacted:	
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	bserved? Yes x No
	Extensive flake scatter, pottery, a few diagnostic projectile points
Cultural Materials c	ollected? Yes No x
If yes, describe:	
General Comments	: This site has previously been impacted by two-track toads and cinder mining
Recommendations:	
recommendations.	Ochtinde monitoring onde per year
Attach additional de	ocumentation, as warranted (photos, profiles, etc.) Yes X No
	Photo
ii yes, describe	
Initials: CFM	Date: 4/12/07
	Duto. 4/12/01

CFM-12	
Clayton Marler, Sonny Alvarez, Dino Lowrey	
7/19/07	
10-JF-95 Routine	
Type 1 X Type 2 Type 3	Type 4
t:	
pact extend into undisturbed areas? Yes	No
Yes No	
F mail Dhana Official common days a CON	1.11.
E-mail Phone Oπicial correspondence, CCr	N#:
ected? Yes No x	
Two backhoe cuts (probably pre-INL) show soil depth in on rocky and limited soil depth in the other. Neither shows conburied cultural deposits. A two track road has impacted the suspected.	nvincing evidence of
Continue monitoring once per year.	
umentation, as warranted (photos, profiles, etc.)	s X No
oto	
Date : 7/19/07	
	Clayton Marler, Sonny Alvarez, Dino Lowrey 7/19/07 10-JF-95 G: Routine Type 1 x Type 2 Type 3 t: pact extend into undisturbed areas? Yes Yes No Clay N

Monitor Number: C	FM-14			
Monitor Name(s): _C	layton Marler, Din	o Lowrey		
Monitor Date: 9/	/20/07			
Site Name/Number: Reason for monitoring	Telegraph Bu	utte		
Findings:	ype 1 x	Type 2	Type 3	Type 4
Impact Agent(s): Significance of Impact	:			
Did disturbance or imp	oact extend into ι	undisturbed areas?	Yes	No
Work Halted? If yes, describe:	Yes	No		
Notifications: Primary contact(s): Date contacted:				
. —	E-mail Ph	one Official co	orrespondence, CCN#	# :
Cultural Materials obserting Spa		x X Nearound the rim and flo		
Cultural Materials colle	ected? Yes	No.	o x	
General Comments:	and by communi	ication tower constructions its state to the site to t	st by a two-track road l ction. The apparent ab from highway 20 & the	sence of formed
Recommendations:			Continue monitoring	once per vear.
		20 .c.many rocordou.	cog	por jour.
Attach additional docu	ımentation, as wa	arranted (photos, pr	ofiles, etc.) Yes	X No
If yes, describe: Pho			· ,	
Initials: CFM			Date: 9/20/07	

Prehistoric Archaeological Sites

Monitor Number:	HKG-02	
Monitor Name(s):	Hollie Gilbert, Julie Braun	
Monitor Date:	April 19, 2007	
Site Name/Number: Reason for monitorin	10-JF-102 / Ryegrass Routine check	
Findings:	Type 1 X Type 2 Type 3 X	Type 4
Impact Agent(s): Significance of Impa	See general comments below. ct:	
Did disturbance or in If yes, describe:	mpact extend into undisturbed areas? Yes	No x
Work Halted? If yes, describe:	Yes No x	
Notifications:	N/A	
Primary contact(s):	N/A	
Date contacted:	N/A	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
	eam agate bi-faces previously recorded were re-located, extensive lilso noted.	thic scatter
Cultural Materials co	llected? Yes No x	
General Comments:		
Recommendations:	No controllable impacts were noted; however the area appears to heavily used recently by antelope. This site had extensive hoof public the soils at the site were wet. Several new badger holes were not the northwest periphery of the site. The access road into the Highway 33 was overgrown with vegetation and extremely difficult	orints created ere also noted site from State
Attach additional do	cumentation, as warranted (photos, profiles, etc.)	No x
Initials: HKG	Date: April 19, 2007	

Monitor Number:	CFM-01	
Monitor Name(s):	Clayton Marler, Dino Lowrey	
Monitor Date:	4/12/07	
Site Name/Number Reason for monito		
Findings:	Type 1 x Type 2 Type 3	Type 4
Impact Agent(s): Significance of Imp	pact:	
Did disturbance or If yes, describe:	r impact extend into undisturbed areas?	No
Work Halted? If yes, describe: _	Yes No	
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials of the control of	observed? Yes x No Medium density lithic scatter	
Cultural Materials of the control of	collected? Yes No x	
General Comments	This site has been substantially impacted in the past by vehicular construction/expansion, and RWMC spoils dumping	traffic, road
Recommendations	s: Continue monitoring once per year.	
Attach additional d If yes, describe: _	documentation, as warranted (photos, profiles, etc.)	No X
Initials: CFM	Date: 4/12/07	

Monitor Number: C	FM-03			
Monitor Name(s):	Clayton Marler, Dino Low	rey		
Monitor Date: 4	/12/07	•		
Site Name/Number: Reason for monitoring	10-BT-676 Routine			
Findings:	ype 1 x Typ	pe 2	Type 3	Type 4
Impact Agent(s): Significance of Impact	:			
Did disturbance or imp	pact extend into undist	urbed areas?	Yes	No
Work Halted? If yes, describe:	Yes	No		
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail Phone	Official corre	espondence, CCN#:	
	erved? Yes x ensive flake scatter and eam cutbank. Foundatio			
Cultural Materials colle	ected? Yes	No	х	
General Comments:		an traffic, stream e	e past through railroad or rosion, cattle grazing, a	
Recommendations:	Continue monitoring a		ar	
		. ,		
Attach additional docu If yes, describe: Pho	imentation, as warrant oto	ed (photos, profil	es, etc.) Yes	X No
Initials: CFM		Date	e: 4/12/07	

Monitor Number:	CFM-05	
Monitor Name(s):	Clayton Marler, Dino Lowrey	
Monitor Date:	4/12/07	
Site Name/Number: Reason for monitor		
Findings:	Type 1 x Type 2 Type 3	Гуре 4
Impact Agent(s): Significance of Imp	pact:	
Did disturbance or If yes, describe:	r impact extend into undisturbed areas? Yes No	
Work Halted? If yes, describe: _	Yes No	
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials o	observed? Yes x No Thin but extensive lithic scatter, historic irrigation ditch	
Cultural Materials c If yes, describe:	collected? Yes No x	
General Comments	s: This site has been impacted in the past by two-track road traffic and h irrigation projects.	istoric
Recommendations:	Continue monitoring once per year	
Attach additional do	documentation, as warranted (photos, profiles, etc.)	No X
Initials: CFM	Date: 4/12/07	

Monitor Number: (CFM-07	
Monitor Name(s):	Clayton Marler, Robert Gallegos, Julie Braun	
` '	5/31/07	
Site Name/Number: Reason for monitoring	10-BT-675 g: Routine	
•		
Findings:	Type 1 X Type 2 Type 3	Type 4
Impact Agent(s): Significance of Impac	ot:	
Did disturbance or im If yes, describe:	npact extend into undisturbed areas? Yes No	o
Work Halted? If yes, describe:	Yes No	
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail	
Cultural Materials obs	served? Yes x No erry dense flake scatter with several concentrations of fire-cracked rock	
Cultural Materials coll If yes, describe:	llected? Yes No x	
General Comments:	This site has been impacted in the past by vehicular and pedestrian to probable looting	raffic and
Recommendations:	Continue monitoring at least once per year	
	cumentation, as warranted (photos, profiles, etc.) Yes X	No
Initials: CFM	Date: 5/31/07	

Monitor Number:	CFM-11
Monitor Name(s):	Clayton Marler, LaRae Buckskin, Sonny Alvarez
Monitor Date:	7/13/07
Site Name/Number: Reason for monitor	ing: 10-BT-1227
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	act:
Did disturbance or i If yes, describe:	mpact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail
Cultural Materials o	
Cultural Materials colf yes, describe:	ollected? Yes No x
General Comments: Recommendations:	
Attach additional do If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No X
Initials: CFM	Date: _ 7/13/07

Monitor Number:	BRP-04
Monitor Name(s):	Brenda R. Pace
Monitor Date:	June 6, 2007
oo. Dato.	
Site Name/Number:	: 10-BT-1974
Reason for monito	<u> </u>
	6-Wheeler and a ightweight cart offroad to identify buried UXO and flag it for
	future remediation. These project activities are being monitored to
	determine if the offroad activity results in impacts to known historic and
	prehistoric archaeological sites.
Findings:	Type 1 X Type 2 Type 3 Type 4
	1960
Impact Agent(s):	6-Wheeler/cart driving offroad, animal activity
Significance of Imp	
Significance of mip	
	impact harder gravel deposits. Impacts to ground surfaces appear to be
	minimal, not much greater than intensive pedestrian activity. All surface
	deposits in this area are heavily impacted by gophers, ground squirrels, and
	badgers.
Did disturbance or	impact extend into undisturbed areas? Yes X No
	At the present time, 6-Wheeler/cart surveys are restricted to areas previously
_	surveyed for archaeological resources to assess impact and suitability for limited
	future deployment in unsurveyed areas. These areas are largely undisturbed.
_	iditure deployment in unsurveyed areas. These areas are largely undisturbed.
	v
Work Halted?	Yes No X
If yes, describe: $\ _$	N/A
Notifications:	None
Primary contact(s):	N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials o	observed? Yes X No
If yes, describe: _	Dispersed scatter of obsidian flakes. No diagnostic materials observed at this time.
0 14 1 1 1 1 1	W 4 10 Y V
Cultural Materials o	
If yes, describe: $_$	N/A
General Comments	: On the floodplain deposits around NODA, offroad use of the 6-Wheeler and cart
	does not appear to adversely impact historic or prehistoric archaeological sites.
	Faint tracks are visible through softer soils, but not on flood gravels. No surface
	artifacts were displaced or broken. Impacts are comparable to intensive foot
	traffic.
Dagammandations	
Recommendations	
	remediation inside the boundaries of this site.
	ocumentation, as warranted (photos, profiles, etc.) Yes X No
If yes, describe: $_$	photographs
_	
Initials: BRP	Date: June 6, 2007

Monitor Number:	BRP-08
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun
Monitor Date:	June 18, 2007
Site Name/Number	r: Hellofasite/10-JF-88
Reason for monito	
icason for monito	Explosive Test Range
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	Power pole inspection, maintenance, and repair. No obvious impacts associated with the Large Scale Explosive Test Range.
Significance of Im	
Did disturbance or If yes, describe:	r impact extend into undisturbed areas? Disturbed areas have been impacted by previous maintenance/repair activities. Disturbance did not extend outside these previously impacted zones.
Work Halted? If yes, describe:	Yes No ongoing work.
Notifications:	BEA Facilities and Site Services, BEA National and Homeland Security , BEA
5	Environmental Compliance
Primary contact(s)	
Date contacted:	June 19, 2007, September 26, 2007
Contact Method:	E-mail X Phone X Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	In 1984 the site was named "Hellofasite" for the dense, diverse scatter of artifacts
ii yes, describe.	and unique rock walls recorded there. In 2006, the original observation were con-
-	firmed. In 2007, flakes were observed around a gravel pad and in sandy soils
-	surrounding a power pole in the western end of the site. Remainder and majority of
-	site to the east remains apparently undisturbed.
-	
Cultural Materials If yes, describe:	collected? Yes No X N/A
General Comment	s: Visual inspection of site and rock walls indicates no impact resulting from
	explosive testing but this is not confirmed by seismic data. Power line repair
	has cause extensive soil disturbance but appears to be restricted to areas
	previously impacted adjacent to the poles. Test Range personnel commented
	on disturbance by power line crew, suggesting that they should be relieved of
	their monitoring responsibilities because of the ground disturbance.
Recommendations	
	explosive tests and analyze for measurable ground motion. Work closely with
	Power Management to prevent additional impact and coordinate cultural
	resource monitoring of future work here and in other sensitive areas. Obtain
	support for archaeological awareness training for Test Range personnel.
Attach additional o	documentation, as warranted (photos, profiles, etc.) Yes No X
_	
Initials: BRP	Date: June 18, 2007

Monitor Number:	BRP-09
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun
Monitor Date: \ \ '	June 18, 2007
-	·
Site Name/Number:	10-JF-135
Reason for monitori	ng: Routine surveillance of archaeological sites in vicinity of Large Scale
	Explosive Test Range
Findings:	Type 1 Type 2 X Type 3 Type 4
J	
Impact Agent(s):	Power pole inspection, maintenance, and repair. No apparent impacts
	associated with the Large Scale Explosive Test Range.
Significance of Impa	act: Heavy equipment has caused soil disturbance around power poles during
	inspection, maintenance, and repair.
Did disturbance or i	mpact extend into undisturbed areas? Yes No X
	Disturbed areas have been impacted by previous maintenance activities.
	Disturbance did not extend outside these previously impacted zones.
Work Halted?	Yes No X
If yes, describe: N	No ongoing work.
_	
Notifications:	BEA Facilities and Site Services
Primary contact(s):	Ken Tuck,
Date contacted:	June 19, 2007
Contact Method:	E-mail Phone X Official correspondence, CCN#:
·	• • • •
Cultural Materials of	bserved? Yes X No
If yes, describe:	n 1984 a dense, diverse scatter of artifacts was documented in this location. In
	2007, artifacts were observed in disturbed soils around the base of a power pole.
	Majority of site to the east appears to remain undisturbed.
Cultural Materials co	ollected? Yes No X
If yes, describe: N	N/A
_	
General Comments:	Visual inspection of site indicates no impact resulting from explosive testing.
	Power line repair has cause extensive soil disturbance but appears to be
	restricted to areas previously used during power line maintenance and repair
	adjacent to the poles.
Recommendations:	Continue monitoring at this sensitive location. Work closely with Power
	Management to prevent additional impact and coordinate cultural resource
	monitoring of future work here and in other sensitive areas.
Attach additional do	ocumentation, as warranted (photos, profiles, etc.) Yes No X
lf yes, describe:	The Management of the Manageme
Initials: BRP	Date: June 18, 2007

Monitor Number:	BRP	'-13							
Monitor Name(s):	Bren	Brenda R. Pace							
Monitor Date:	Octo	ber 17	, 2006 –	Septembe	r 6, 2007				
				•					
Site Name/Numbe	r:	10-B	T-2189/E	BLR-8 Tren	ches				
Reason for monito	oring:	Proje	ct comp	liance with	Memorandu	um of A	Agreement	and consult	ation with
	Ū			e-Bannock					
Findings:	Туре	e 1 X		Type 2		Tv	pe 3		Type 4
	- 7			- 7 -					
Impact Agent(s):		Heav	y equipn	nent					
Significance of Im	pact:				nal disturbe	d area	l		
o.g	.						<u> </u>		
Did disturbance o	r imnac	t exter	nd into u	ındisturbe	d areas?		Yes		No X
If yes, describe:	-				esigned to p	reven			
ii yes, aeseribe.			tial effec		csigned to p	JI C V CI I	t distarbari	cc outside ti	no original
	ai ea u	poten	liai ellec	·L.					
Work Halted?		Yes		No					
	NI/A	162		NO	X				
If yes, describe:	N/A								
Natifications.	Cha		Dannaa	lı Triboo					
Notifications:			-Bannoc	k iribes					
Primary contact(s		Iroline Smith Iltiple communications							
Date contacted:									
Contact Method:	∣ E-n	nail	X Pho	one X	Official cor	rrespo	ndence, C	CN#:	
							7		
Cultural Materials	observ	ed?	Yes	X	No				
If yes, describe:	Trench	nes wei	re origina	ally placed	inside the b	ounda	ries of this	prehistoric o	campsite.
	Artifac	ts and	cultural f	eatures oc	cur through	out the	area and	were observ	ed during
	the ba	ckfilling	operation	ons in undi	sturbed area	as aro	und the tre	nches.	
•			•						
Cultural Materials	collect	ed?	Yes		No	Х			
If yes, describe:	N/A						_		
,	-								
General Comment	ts: B	ackfillir	na activit	ies began	on August 2	8 and	finished or	September	6. 2007.
					tors were pr				
					about cultu				
									ackdirt piles
_ _					in providing				
		sensitive artifacts located there. No new impacts occurred and no new artifacts were observed in the backdirt.							
Recommendation	s: <u>№</u>	ionitor	revegeta	ation efforts	in October				
	_			,					—
Attach additional			n, as wa	arranted (p	hotos, pro	files, e	etc.)	Yes X	No
If yes, describe:	photog	<u>jraphs</u>							
Initials: BRP					Da	ate:		- 30, 2007	
BRP							Septembe	r 4 - 6, 2007	7

Monitor N	lumber:	BRI	P-14									
Monitor N	lame(s):	Bre	nda R. F	Pace								
Monitor D	` ,	Oct	ober 17	2006 -	- Septemb	er 6, 200	7					
Site Name					Long Sado			Δαreeme	ent and con	eultatio		
ixeason ix		ınıg.			e-Bannock		andum or	Agreenie	int and con	isuitatioi	1 VVICI	<u>. </u>
			uie S	HUSHUH	e-Dailliocr	Tilbes						
Findings:		Тур	e 1 X		Type 2		Т	ype 3		Ту	pe 4	
Impact A	gent(s):		Heav	y equipi	ment							
Significar		oact:	No in	pacts b	eyond orig	ginal dist	urbed are	а				
·	•			•	,							
Did distu If yes, de		Backf	illing ope	erations				Yes nt disturb	ance outsid	No de the o		X al
	_	area o	of potent	tial effec	ct.							
Work Hal		N/A	Yes		No	X						
	_											
Notification					ck Tribes							
	ontact(s)		roline S									
Date cont			ıltiple co	mmunio								
Contact N	/lethod:	E-I	mail	X Ph	one X	Official	corresp	ondence	, CCN#:			
Cultural N	Materials (obsori	(0d2	Yes	X		No					
If yes, des						l incido tl		_ orios of th	nis historic	ctaga ct	otion	
ii yes, ue:	scribe.								nd were ob			
	-									serveu (Julili	ન
	-	trie ba	ickilling	operau	ions in unc	iisturbeu	areas are	Julia tile i	lendies.			
Cultural M		collec N/A	ted?	Yes	s		No X					
General C	Comments								on Septen y. Project			
									rotection, m			
									ed and no a			
					backdirt.	10. 110 110	ow impac	to occurre	<u>/a ana no c</u>	ai tiidoto	****	
Recomme	endations	_			ation effort	ts in Octo	her					
11000111111	ciidatioiis	· -	710111101 1	ovogou	ation onor	10 111 0010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-	
Attach ad	lditional d	locum	entatio	n as w	arranted (photos	profiles	etc.)	Yes	X	No	
If yes, de			graphs	., 40 11	(p.i.otoo,	promoc,					
							_	_				
Initials:	BRP						Date:		28 - 30, 20			
	BRP						_	Septem	ber 4 - 6, 2	2007		

—	BRP-15
lame(s): E	Brenda R. Pace
` '	October 17, 2006 – September 6, 2007
	· · · · · · · · · · · · · · · · · · ·
e/Number:	10-BT-2192/Short Saddle Trench
	g: Project compliance with Memorandum of Agreement and consultation with
	the Shoshone-Bannock Tribes
Т	Type 1 X Type 2 Type 3 Type 4
	<u> </u>
gent(s):	Heavy equipment
hance or im	pact extend into undisturbed areas?
	ckfilling operations carefully designed to prevent disturbance outside the original
	ea of potential effect.
	a of potential effect.
ted?	Yes No X
14/7	<u> </u>
one:	Shoshone-Bannock Tribes
_	Caroline Smith
` ' _	Multiple communications
. —	_ ' , , , , , , , , , , , , , , , , , ,
ietilou.	E-mail X Phone X Official correspondence, CCN#:
latariala aba	erved? Yes X No
	enches were originally placed inside the boundaries of this prehistoric lithic scatter.
_Art	ifacts and cultural features occur throughout the area and were observed during
410.0	had dilling an autions in condict wheel are an array of the translate
the	backfilling operations in undisturbed areas around the trenches.
 //aterials coll	ected? Yes No X
	ected? Yes No X
Materials coll scribe: N/A	ected? Yes No X
 //aterials coll	Backfilling activities began on August 28 and finished on September 6, 2007.
Materials coll scribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were
Materials coll scribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing
Materials coll scribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were
flaterials coll scribe: N//	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt.
Materials coll scribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were
Materials coll scribe: N/A comments:	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt. Monitor revegetation efforts in October.
Materials collscribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt. Monitor revegetation efforts in October.
Materials collscribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt. Monitor revegetation efforts in October.
flaterials coll scribe: N// comments: endations: ditional docu	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt. Monitor revegetation efforts in October. umentation, as warranted (photos, profiles, etc.) Yes X No
Materials collscribe: N/A	Backfilling activities began on August 28 and finished on September 6, 2007. Heritage Tribal Office monitors were present each day. Project personnel were cooperative and concerned about cultural resource protection, minimizing impact as much as possible. No new impacts occurred and no artifacts were observed in the backdirt. Monitor revegetation efforts in October.
	e/Number: or monitoring gent(s): nce of Impact bance or impact bance or impact coribe: Bare ed? coribe: ons: ontact(s): acted: lethod: laterials obsectibe:Tree

Monitor N	umber:	BRP	-16							
Monitor N	ame(s):	Bren	da R. F	Pace						
Monitor D		Octo	ber 17,	2006 –	Septembe	er 6, 2007				
						,				
Site Name	/Number	:	10-B7	T-2193/S	Short Sado	lle Trench				
Reason fo	or monito	ring:	Proje	ct comp	liance with	Memorar	dum of	Agreement ar	id consultat	ion with
		Ū			e-Bannock					
Findings:		Туре	1 X		Type 2		T	ype 3	7	Гуре 4
		- 7			. , , , , _			,,,,,		. , , , , , , , , , , , , , , , , , , ,
Impact Ag	ent(s):		Heav	y equipr	ment					
Significan		oact:			eyond orig	inal distur	bed are	 a		
g					<u> </u>			<u>u</u>		
Did distur	bance or	· impac	t exten	d into ι	undisturbe	ed areas?		Yes	No	X
lf yes, des		-						nt disturbance	outside the	original
• ,	-			ial effec						
	_		_ •						-	-
Work Halt	ed?		Yes		No	X				
lf yes, des		N/A								
, 00, 400	_	1 477 1								
Notificatio	ons:	Sho	shone-	Bannoo	k Tribes					
Primary c	ontact(s)	: Car	oline S	mith						
Date cont	acted:	Mul	tiple co	mmunio	cations					
Contact M	lethod:	E-m	nail	X Ph	one X	Official of	orresp	ondence, CCI	N#:	
			_				-			
Cultural N	laterials (observ	ed?	Yes	X	N	lo 🗆			
lf yes, des	scribe:	Trench	ies wer	e origin	ally placed	inside the	bound	aries of this pr	ehistoric lith	nic scatter.
• ,	_							e area and we		
	_							ound the trenc		<u> </u>
	-									
Cultural N	laterials (collect	ed?	Yes		N	lo X			
lf yes, des		N/A				•		_		
ii yoo, acc	_	14// \								
General C	comments	s· R	ackfillir	ng activit	ties hegan	on Augus	t 28 and	I finished on S	entember 6	2007
Joniorai J	011111101110							each day. Pr		
							•	source protect	<u> </u>	
								ts occurred an		
			•		backdirt.	C. INOTICY	viiiipac	is occurred an	u no armac	is were
Daaamma	n dations				ation effort	o in Ootob	or			
Recomme	enuations	5. <u>IV</u>	Officer	evegeta	ation enort	S III OCIOD	ei.			
Attach ad	ditional -	10011	ntotic:		arrantad /-	obotes =	rofiloo	oto) V-		No.
				n, as wa	arranted (pnotos, p	rotiles,	etc.) Ye	es X	No
lf yes, des	scribe: _	photog	rapns							
Initials:	BRP						Date:	August 28 -	30 2007	
muais.							Dale.			
-	BRP							September 4	· - 0, 200 <i>1</i>	

Appendix A: Historic Trails and Stage Stations

Monitor Number:	HKG-05
Monitor Name(s):	Hollie Gilbert, Julie Braun
Monitor Date:	April 26, 2007
Site Name/Number Reason for monito	
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	No new impacts, however, BLM road grading activities that occurred in 2002 from the point were T-1 crosses the western INL border, and continuing for
Significance of Imp	several miles east onto the INL, are still very visible. pact:
Did disturbance or If yes, describe: _	impact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe: _	Yes No x
Notifications:	N/A
Primary contact(s):	
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
	Various lithic scatters were noted along the route; however they were not formerly monitored. Places along the route that cross basalt ridges where the road is rough were spot checked for artifacts; horse shoe nails and other various pieces of metal were observed. The basalt rocks in these areas also show extensive wear from wagon wheels and in some cases iron/rust stains are still visible on their surfaces and in the rock vesicles. It should also be noted that there are other visible sections (small side routes) that weave in and out along the entire current route.
Cultural Materials of the control of	collected? Yes No x
General Comments Recommendations	
Attach additional d If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No x
Initials: HKG	Date: April 26, 2007

Monitor Number:	BRP-02						
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun						
Monitor Date: \ \	April 17, 2007						
Site Name/Number	: Road T-16 (Historic Trail)						
Reason for monito	ring: Reported impacts from sheep grazing, check on project compliance with						
	cultural resource recommendations						
Findings:	Type 1 Type 2 X Type 3 Type 4						
Impact Agent(s):	Sheep, water trucks, vehicles, sheepherder camping						
Significance of Imp							
	more severe this year. Any archaeological site, historic or prehistoric, that						
	is located along the road has been significantly impacted this year.						
	10 1000100 along the road had boom digrilloanly impacted the year.						
Did disturbance or	impact extend into undisturbed areas? Yes X No						
If yes, describe:	Roadside is heavily impacted; trail has become deeply rutted with significant						
_	accumulations of dust; new vehicle tracks are established around low muddy spots,						
_	new sheep camps have been established in several areas along the road.						
_							
Work Halted?	Yes No X						
If yes, describe:	N/A						
ii yes, describe	14/74						
Notifications:	Dept. of Energy						
Primary contact(s)	·						
Date contacted:	April 17, 2007						
Contact Method:	E-mail X Phone X Official correspondence, CCN#:						
oomaat matrica.	Then A mone and on coponacion, com						
Cultural Materials	observed? Yes X No						
	Numerous homesteads are known to exist along T-16 as well as unrecorded lithic						
	scatters.						
_	- Countries						
Cultural Materials	collected? Yes No X						
If yes, describe:	N/A						
yes, acsorise							
General Comments	s: Impacts will likely re-occur next Spring when grazers return.						
Recommendations							
recommendations	establish baseline for future monitoring; 2) consider adding additional gravel to						
	road surface to keep vehicles on the road; 3) establish designated campsites						
	for grazers; 4) assess impacts from grazing across entire site and develop						
	mitigation activities for ongoing adverse impacts.						
Adda ala a di 1941 con 1941							
	locumentation, as warranted (photos, profiles, etc.) Yes No X						
If yes, describe: _							
I!4!I DDD	D-4 Arrell 40, 0007						
Initials: BRP	Date: _ April 16, 2007						

Monitor Number:	HKG-03	
Monitor Name(s):	Hollie Gilbert, Julie Braun	
Monitor Date:	April 20, 2007	
Site Name/Number Reason for monito		
Findings:	Type 1 Type 2 X Type 3	Type 4
Impact Agent(s): Significance of Imp	Badger / rodent burrowing Does not affect sites eligibility	
Did disturbance or If yes, describe:	r impact extend into undisturbed areas?	No x
Work Halted? If yes, describe: _	Yes No x	
Notifications:	N/A	
Primary contact(s)		
Date contacted: Contact Method:	N/A E-mail Phone Official correspondence, CCN#:	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
	observed? Yes x No	ntified metal
Cultural Materials of the control of	collected? Yes No x	
General Comments	s: The area is still recovering from a 2000 wildlands fire. Grasses are predominant. Also DOE's floodplain trenching project is in close prothe site. CRM monitoring is recommended when trenches are back during re-vegetation efforts.	
Recommendations		
Attach additional d If yes, describe:	documentation, as warranted (photos, profiles, etc.) Yes X	No
Initials: HKG	Date: April 20, 2007	

Monitor Number:	CFM-04
Monitor Name(s):	Clayton Marler, Dino Lowrey, Robert Gallegos, Julie Braun
Monitor Date:	4/12/07; 5/31/07
Site Name/Number:	Powell Stage Station
Reason for monitori	ng: Routine
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s): Significance of Impa	Animal burrowing (probable badger) inside foundations. Impact does not affect the site's NRHP eligibility
Did disturbance or in	mpact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No
Notifications:	
Primary contact(s):	
Date contacted: Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials of	oserved? Yes X No
If yes, describe:	Dense historic debris, basalt foundations
Cultural Materials co	ollected? Yes No x
General Comments:	
Recommendations:	Continue monitoring once per year.
	cumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: CFM	Date: 4/12/07; 5/31/07

Monitor Number:	_HKG-09
Monitor Name(s):	Hollie Gilbert, Julie Braun
Monitor Date: `´	August 21, 2007
	,
Site Name/Number	r: BEA-07-32-115 / Birch Creek Stage Station
Reason for monito	
	Thig
	T O V T O T O
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	Sheep grazing, possible unauthorized visitation.
Significance of Imp	pact: Current impacts do not threaten this site's eligibility status.
Did disturbance or	impact extend into undisturbed areas? Yes No x
If yes, describe:	•
Work Halted?	Yes No x
	Yes No x
lf yes, describe: _	
Notifications:	_N/A
Primary contact(s)	: N/A
Date contacted: `´	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
oontact wethou.	L-man
Cultural Materials of the control of	Structural features are still visible; house foundation and other features such as possible flower bed borders with walk way and dugout. The soils where it is assumed the barn/corrals were is still devoid of vegetation except for halogeton and very scant short grasses. Typical historical artifacts (i.e., broken glass, nails, and cans) distributed throughout area. Additional items noted are window pane glass, square nails, and decorative cast iron stove pieces.
Cultural Materials of the control of	collected? Yes x No An 1889 Liberty Seated dime was found in association with the dugout/root cellar. Because of the accessibility of this site to the public, i.e., located with the Hunting and Grazing Boundaries, this artifact was collected.
General Comments	has not directly impacted the site's structural remains however it could pose as a threat in the future. Sheep disturbance is noted to be on the northern periphery of the site's general area. Julie added, that although sheep have impacted the area (i.e., vegetation and dense scat covering in areas), sheep herding activities should be considered a historic activity for the area, and therefore keeping a tradition alive for the area.
Attach additional o	documentation, as warranted (photos, profiles, etc.) Yes No
If yes, describe:	,
, 555, 45361166.	
Initiala. LUCO	D-4 A1 04 0007
Initials: HKG	Date: August 21, 2007

Appendix A: Historic Homesteads

Monitor Number:	HKG-01
Monitor Name(s):	Hollie Gilbert, Julie Braun
Monitor Date: `´	April 15, 2007
Site Name/Number: Reason for monitori	10-JF-170/ISU-89-2-A18 ing: Historic sites re-evaluation project
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s): Significance of Impa	Sheep grazing, possible unauthorized visitation. Current impacts do not threaten this site's eligibility status.
	mpact extend into undisturbed areas? Yes No x
Work Halted? If yes, describe:	Yes No x
Notifications:	N/A
Primary contact(s):	N/A
Date contacted: Contact Method:	N/A E-mail Phone Official correspondence, CCN#:
Contact Method.	L-mail i none omciai correspondence, con#.
r s II	Artifacts previously recorded plus one complete purpled medicine bottle (cc measurements on side of bottle), coal pieces associated with a nail concentration, stove pipe flashing, stove pipe and window pane glass. A large area to the north pooks to be historically disturbed; potentially a corralling area with fence posts. Recent Pepsi cans have been deposited on site. Area appears to have been used for sheep grazing recently. Orange nylon bailing line was also noted.
Cultural Materials co	ollected? Yes No x
General Comments:	This site was relocated during an ongoing effort to re-evaluate previously recorded historic sites. The initial site form describes a 30 cm. depression from possible recent looting; however, the size of the sagebrush growing on the back fill pile suggests that the depression could be part of the original site.
Recommendations:	Since looting is not suspected, and sheep grazing is an ongoing historical activity for this area, monitoring does not need to occur annually, but should be considered again in the future.
Attach additional do If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No x
Initiala. UVC	Dete: April 45, 2007
Initials: HKG	Date: April 15, 2007

Monitor Number:	HKG-04
Monitor Name(s):	Hollie Gilbert, Julie Braun
Monitor Date:	April 25, 2007
Cita Nama /Numaham	
Site Name/Number:	
Reason for monitor	ing: Historic sites re-evaluation project
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s):	Potential Big Lost River flooding, however this has not been evaluated or confirmed.
Significance of Imp	act: Site retains integrity and therefore eligibility.
	impact extend into undisturbed areas? Broad area surrounding site is impacted by flooding.
Work Halted? If yes, describe: _	Yes No x
Notifications:	N/A
Primary contact(s):	N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
	Additional artifacts were noted from initial recordation in 1989. Additional artifacts included: coal, a shell button, heavy metal hardware (possible plow parts), large tablespoon, corset stays, rubber boot buckle, one complete 6" aqua colored bottle (2 piece mold, concave sides with bubbles with "Dr. S. PITCHER'S CASTORIA" embossed, additional wire nails and one outhouse sized depression.
Cultural Materials c If yes, describe:	ollected? Yes No x
General Comments	: Most of the artifacts at this site are partially or mostly covered with soils. The site is adjacent to a channel of the Big Lost River just south of the Big Lost River Sinks. Site most likely impacted historically by flooding.
Recommendations	
Attach additional d If yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No x
Initials: HKG	Date: April 25, 2007

Monitor Number:	HKG-06	
Monitor Name(s):	Hollie Gilbert, Julie Braun	
Monitor Date:	April 26, 2007	
Site Name/Number: Reason for monitor		
Findings:	Type 1 X Type 2 Type 3 X	Type 4
Impact Agent(s): Significance of Imp	Looting Does not affect sites eligibility	
Did disturbance or If yes, describe: _	impact extend into undisturbed areas? Yes	No x
Work Halted? If yes, describe: _	Yes No x	
Notifications:	N/A	
Primary contact(s):		
Date contacted:	N/A	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
	Trash scatter previously recorded is still intact except for a large yellow to Julie was involved in the initial recording of this site in 2002 and rememble construction crew in the immediate area during recordation. The tea ket drawn and described in detail.	pered a road
Cultural Materials c If yes, describe:	collected? Yes No x	
General Comments	ş:	
Recommendations:		
Attach additional de lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.)	No x
Initials: HKG	Date: April 26, 2007	

Monitor Number:	HKG-08	
Monitor Name(s):	Hollie Gilbert, Julie Braun	
Monitor Date:	August 21, 2007	
Site Name/Numbe Reason for monito		
Findings:	Type 1 Type 2 x Type 3 Type 4	_
Impact Agent(s): Significance of Im	pact: Badger / rodent burrowing Does not affect sites eligibility	_
Did disturbance o If yes, describe:	r impact extend into undisturbed areas? Yes No x	
Work Halted? If yes, describe:	Yes No x	
Notifications:	N/A	
Primary contact(s		
Date contacted:	N/A	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
Cultural Materials If yes, describe:	observed? Yes x No Just south of the house foundation is a concentration of brick which potentially could have been a blacksmithing forge. The borrowing occurred in this area exposing buried bricks, large chunks of charcoal, and burned wood.	
Cultural Materials If yes, describe:	collected? Yes No x	
General Comment Recommendation		r
Attach additional (documentation, as warranted (photos, profiles, etc.) Yes X No	
Initials: HKG	Date: August 21, 2007	

Monitor Number:	HKG-10
Monitor Name(s):	Hollie Gilbert, Brenda Pace
Monitor Date:	September 27, 2007
Site Name/Number: Reason for monitori	Field # BEA-05-44-10 Fire reconnaissance, historic sites re-evaluation project
Findings:	Type 1 Type 2 x Type 3 Type 4
Impact Agent(s):	East Butte Fire (7/19/07)
Significance of Impa	ct: Does not affect sites eligibility
	mpact extend into undisturbed areas? Yes x No 715 acres burned in this wildlands fire.
Work Halted? If yes, describe:	Yes No x
Notifications:	N/A
Primary contact(s):	N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
р	oserved? Yes x No
Cultural Materials co If yes, describe:	ollected? Yes No x
General Comments:	Fire may have increased the fragility of individual artifacts but has not adversely affected the site as a whole.
Recommendations:	At this time, no further monitoring is necessary.
Attach additional do If yes, describe:	cumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: HKG	Date: September 27, 2007

Monitor Number:	HKG-11
Monitor Name(s):	Hollie Gilbert, Brenda Pace
Monitor Date: \('	September 27, 2007
•	
Site Name/Number:	Field # BEA-05-44-11
Reason for monitori	ing: Fire reconnaissance, historic sites re-evaluation project
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	East Butte Fire (7/19/07)
Significance of Impa	Does not affect sites eligibility
	mpact extend into undisturbed areas? Yes x No
If yes, describe: _8	3715 acres burned in this wildlands fire.
Work Halted?	Yes No x
If yes, describe:	
	A1/A
Notifications:	N/A
Primary contact(s):	N/A
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
t s e	hserved? Yes x No nitial recordation of this site occurred in 2005. Based on early 1918 survey maps, he location of this site was determined to be located west of the access road into the site. The 2005 survey concentrated only on the west side of the road. The 2007 fire exposed an extensive debris scatter on the east side of the road that was not initially ocated. Additional artifacts were also noted on the west side of the road. See recommendations below.
Cultural Materials co	ollected? Yes No x
If yes, describe:	
General Comments:	Fire may have increased the fragility of individual artifacts but has not adversely affected the site as a whole.
Recommendations:	It is recommended that this site be re-recorded since the lack of vegetation has
	exposed an extensive domestic debris scatter not previously recorded.
	Recordation should occur either in the fall of 2007 or early spring 2008 before
	the area re-vegetates.
Attach additional do lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes No x
	_ ,
Initials: HKG	Date: September 27, 2007

Monitor Number:	HKG-12
Monitor Name(s):	Hollie Gilbert, Brenda Pace
Monitor Date:	September 27, 2007
Site Name/Number Reason for monito	
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s): Significance of Imp	East Butte Fire (7/19/07) Does not affect sites eligibility
	impact extend into undisturbed areas? Yes x No 8715 acres burned in this wildlands fire.
Work Halted? If yes, describe: _	Yes No x
Notifications: Primary contact(s):	
Date contacted: Contact Method:	N/A E-mail Phone Official correspondence, CCN#:
Contact Method:	E-mail Phone Official correspondence, CCN#:
	Although the area is totally devoid of vegetation due to the fire, milled lumber is still present. Four additional cans were also located (for a total of six cans) as well as two distinct window pane glass scatters. One strand of bailing wire was also noted. Additionally, the fire exposed two linear basalt rock alignments (probable house foundation) that were not previously noted in 2005 recordation. A dense scatter of wire nails surrounds the foundation and roofing nails were also noted.
Cultural Materials of the control of	collected? Yes No x
General Comments	affected the site as a whole.
Recommendations	At this time, no further monitoring is necessary.
Attach additional d lf yes, describe:	ocumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: HKG	Date: September 27, 2007

Monitor Number: $_B$	BRP-10	
Monitor Name(s): B	Brenda R. Pace, Wendy Savkranz	
Monitor Date: A	August 6, 2007	
Site Name/Number: Reason for monitoring	10-BT-269 Confirmation of site location in relation to proposed project activities	es
Findings:	Type 1 X Type 2 Type 3	Type 4
Impact Agent(s): Significance of Impact	None None	
Did disturbance or imp	pact extend into undisturbed areas? Yes No	o X
Work Halted? If yes, describe: N/A	Yes No X	
Notifications:	None	
Primary contact(s):	N/A	
Date contacted:	N/A	
Contact Method:	E-mail Phone Official correspondence, CCN#:	
	e includes rusted cans, purpled glass, other glass, china fragments, sto	
	np parts, a foundation made of basalt, depressions that may mark other	· cultural
_feat	tures, and a ditch. Old aerial photos show field scars as well.	
Cultural Materials colle		
General Comments:	Site has not been directly impacted by nearby projects, including the	
	concrete batch plant. A wire fence placed around the site during con of the nearby stormwater ponds is in disrepair but the posts are still s	
Docommondations:	Continue monitoring at this location given plans for intensive activities	
Recommendations:	area. Repair fence and install signs.	s iii iiie
	aroa. Ropan tortoc and install signs.	
Attach additional docu If yes, describe:	umentation, as warranted (photos, profiles, etc.)	No X
Initials: BRP	Date: August 6, 2007	

Monitor Number:	BRP-05
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun
Monitor Date: `´	March 22 – July 31, 2007
O't No o Maria	L MIT 00 00 40
Site Name/Number	
Reason for monito	6-Wheeler and a lightweight cart offroad to identify buried UXO and flag it for
	future remediation. These project activities are being monitored to
	determine if the offroad activity results in impacts to known historic and
	prehistoric archaeological sites.
Findings:	Type 1 X Type 2 Type 3 Type 4
L., (A (/ a)	O Miller de Verde III de effecte de velocit de la Constantidad de la C
Impact Agent(s):	6-Wheeler/cart driving offroad, animal activity
Significance of Imp	
	impact harder gravel deposits. Impacts to ground surfaces appear to be
	minimal, not much greater than intensive pedestrian activity. All surface soils
	in this area are heavily impacted by gophers, ground squirrels, and badgers.
Did diatombassas as	Singuist sector distance distance distance and sector distance and
	impact extend into undisturbed areas? Yes X No
If yes, describe:	At the present time, 6-Wheeler/cart surveys are restricted to areas previously
-	surveyed for archaeological resources to assess impact and suitability for limited
-	future deployment in unsurveyed areas. These areas are largely undisturbed.
Work Halted?	Yes No X
If yes, describe:	N/A
yes, acsoribe	
Notifications:	None
Primary contact(s)	
Date contacted:	N/A
Contact Method:	E-mail Phone Official correspondence, CCN#:
Cultural Materials	observed? Yes X No
If yes, describe:	Extensive concentration of cans, glass, ceramics, and other metal artifacts. Features
_	(foundations, cellar, etc.) are indicated by basalt cobbles and depressions.
Cultural Materials	collected? Yes No X
lf yes, describe: _	N/A
0	On the fleedule in demonstrate and NODA offered one of the CAMbacker and earth
General Comments	
	does not appear to adversely impact historic or prehistoric archaeological sites.
	Faint tracks are visible through softer soils, but not on flood gravels. No surface
	artifacts were displaced or broken. Impacts are comparable to intensive foot traffic. Geophysical data collected from the site area may be valuable in
Dagammandatiana	identifying additional hidden cultural features at this site.
Recommendations	
	remediation inside the boundaries of this site. Analyze geophysical data
	(magnetometer) collected from this location during the survey.
Attach additional a	locumentation as warranted (photos profiles etc.)
	locumentation, as warranted (photos, profiles, etc.) Yes X No photographs
If yes, describe:	priotograpiio
Initials: BRP	Date: June 10, 2007

Appendix A: World War II Sites

Monitor Number: Monitor Name(s):	JBB-02 Julie Braun, Hollie Gilbert, Tom Wheeler
Monitor Date:	November 16, 2007
Site Name/Number: Reason for monitori	CFA-607/Commanding Officers Quarters Routine check
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s): Significance of Impa	See attached Table See attached Table
Did disturbance or in If yes, describe:	mpact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	Yes No X
Notifications:	BEA Facility Management
Primary contact(s):	Tom Wheeler
Date contacted: Contact Method:	November 16, 2006 E-mail X with Phone Official correspondence,
Contact Method:	E-mail X with Phone Official correspondence, CCN#:
	attached
b H e fo r v s d r	nitially constructed as the base commander's residence, Building CF-607 appears to be either a wood framed or clay tile one story structure with a brick veneer supported by a concrete foundation. There is a partial basement for mechanical and utilities. Historic Fabric: The majority of this building's exterior appears to be original, with the exception of alterations to the entry steps and entry way. The brick, concrete boundation, wood-framed gables and associated trim, wood windows and doors etain a high degree of original character and design. The alterations of the entry way appear inconsistent with the scale and texture of the building. Interior wall surfaces appear to have been overbuilt with later materials, losing definition and letail around many windows. It is unknown whether the original wall covering was etained under the alteration. Many other interior elements, like wood trim, built-in abinets, and fixtures, reflect original construction. Minor partition additions and leletions have occurred from changing use.
Cultural Materials co If yes, describe:	ollected? Yes No X
General Comments:	No new impacts have occurred and the eligibility is not affected; however, a lack of routine maintenance continues to add to cumulative impacts.
Recommendations:	See attached table for recommended treatments.
	cumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: JBB	Date: November 16, 2007

Problem	Probable Cause	Testing and Investigation	Impact on the Structure	Treatment	Priority
Extreme temperature fluctuations	All utilities disconnected	Visual	Deterioration of historic fabric (i.e., bulging ceiling tiles)	nistoric fabric temperatures i.e., bulging	
Cobwebs, animal droppings, bird, hornet nests near entry	Minimal maintenance over past several years	Visual	Bird droppings cause deterioration, shabby appearance	Clean, remove nests, exterminate	Medium
Roof shingles are cracking	Lack of oil	Visual	Could cause roof deterioration and leaking	Oil shingles/ replace broken shingles	High
Leaking window pane in front door	Loss of seal around window	Visual/touch/smell	Water on floor/wet carpet and hardwood	Caulk window or replace nonoriginal door	Medium
Cracked window pane room 103, eastside of basement	Water intrusion/Lack of maintenance	Visual	Deterioration of window sash	Replace and reglaze pane	High
Cracked and peeling walls	Water intrusion	Visual/touch	Deterioration of original fabric	Install/repair water gutter drainage system, install window well covers	High
Tree growing in west window well	Vegetation too close to foundation/lack of maintenance	Visual	Deterioration of original fabric	Remove tree, cutback plants to 2 ft. from foundation	High
Dangling light fixture	Lack of maintenance	Visual	Safety	Remove light fixture	High
Efflorescence noted on exterior brick	Water, leaching salt from brick	Visual/touch	Deteriorating masonry	Repair/replace drainage system	High

Monitor Number:	JBB-03	
Monitor Name(s):	Julie Braun, Hollie Gilbert, Tom Wheeler	
Monitor Date:	November 16, 2007	_
Site Name/Number: Reason for monitor		
Findings:	Type 1 Type 2 X Type 3 Type 4	_
Impact Agent(s): Significance of Imp	See attached Table See attached Table	_
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X	
Work Halted? If yes, describe: _	Yes No X	
Notifications: Primary contact(s): Date contacted: Contact Method:	BEA Facility Management Tom Wheeler November 16, 2006 E-mail X with report attached CCN#:	_
	The CF-632 garage is directly associated with CF-607 and is constructed with similar materials. It is a single story, gable roof structure. Historic Fabric: This structure has a high degree of original historic fabric. The brick, concrete foundation, wood-framed gables and associated trim, wood windows and doors retain a high degree of original character and design.	
Cultural Materials c If yes, describe:	collected? Yes No X	
General Comments	No new impacts have occurred and the eligibility is not affected; however, a lack of routine maintenance continues to add to cumulative impacts.	
Recommendations:	See attached table for recommended treatments.	
	ocumentation, as warranted (photos, profiles, etc.) Yes X No photos	
Initials: JBB	Date: November 16, 2007	

Problem	Probable Cause	Testing and Investigation	Impact on the Structure	Treatment	Priority
Extreme temperature fluctuations	All utilities disconnected	Visual	Deterioration of historic fabric (i.e., bulging ceiling tiles)	Regulate temperatures	High
Bird, hornet nests near entry	Minimal maintenance over past several years	Visual	Bird droppings cause deterioration, shabby appearance	Remove nests	Medium
Peeling wooden garage door	Water adsorption/poor drainage	Visual/touch	Loss of historic fabric	Seal with plywood/fix water drainage problem	High
Peeling paint on exterior trim	Lack of maintenance	Visual	Deterioration of historic fabric	Scrape and paint with historic colors	Medium
Broken window	Lack of maintenance	Visual	Appearance/water intrusion	Replace/reglaze window	High
Support post is loose	Lack of maintenance	Touch/visual	Appearance/safety	Straighten and tighten bolt	High

Monitor Number:	JBB-04							
Monitor Name(s):Julie Braun, Hollie Gilbert, Tom Wheeler								
Monitor Date:	November 16, 2007							
Site Name/Number Reason for monito		A-606/Mari utine check		ks				
Findings:	Type 1		Type 2	X	Type 3		Туре	4
Impact Agent(s):	Se	e attached	Table					
Significance of Imp	oact: Se	e attached	Table					
Did disturbance or If yes, describe:	impact ex	tend into u	ndisturbe	d areas?	Y	es	No	X
Work Halted? If yes, describe: _	Ye	s	No	Х				
Notifications:	BEA F	acility Mana	agement					
Primary contact(s)	: Tom W	/heeler						
Date contacted:		ber 16, 200						
Contact Method:	∣ E- mail	X with report attached	Phone	Officia CCN#:	l correspor	idence,		
Cultural Materials	observed?	Yes	X	No				
If yes, describe:	Building Cl original por roof and w of the front veneer. Hi linear façae the visual a exterior stil wood wind	F-606 is a solution, the column, the colum	ingle story increte bases. A single 1969. The c: Origina 69 addition I integrity ain a high trim, and r	e structure or sement supp le story mode addition app ally, this build in to the front of the historic degree of his	orts solid briern addition bears to be cling was des elevation had character. Storic materialist solid brierior has	aised full baser ick walls with a was added to concrete block igned with a s as severely con Those areas al integrity thro undergone ex	a simple the east and bric ymmetric mpromis of the orough the	gable half k cal, sed iginal
Cultural Materials of If yes, describe:	collected?	Yes		No	X			
General Comments Recommendations								
Attach additional d	locumentate photos	tion, as wa	rranted (p	hotos, prof	iles, etc.)	Yes X	N	lo
-	•			_	4. NI.			
Initials: JBB				Da	te: Nove	mber 16, 2007		

Problem	Probable Cause	Testing and Investigation	Impact on the Structure	Treatment	Priority
Extreme temperature fluctuations	All utilities disconnected	Visual	Deterioration of historic fabric (i.e., bulging ceiling tiles)	Regulate temperatures	High
Bird, hornet nests near entry	Minimal maintenance over past several years	Visual	Bird droppings cause deterioration, shabby appearance	Remove nests	Medium
Spalling concrete in entryway	Water, clogged and missing drainage gutters	Visual	Loss of fabric (likely nonoriginal)	Replace concrete Clean gutters regularly	High
Packrat middens in interior	Minimal maintenance	Visual/smell	Entry/exit holes	Remove and plug entry holes with steel wool or aluminum	High
Sawdust on basement floor	Insects, rodents	Visual	Deterioration of historic fabric	Exterminate	High
Water stains in basement	Leaking faucet, clogged, backed up drains	Visual	Deterioration of historic fabric	Clean drains	Low
Crack in foundation	Tree growing in stairwell	Visual	Water/pest intrusion	Remove tree, repair concrete	High, Medium

Monitor Number:	JBB-05
Monitor Name(s):	Julie Braun, Hollie Gilbert, Tom Wheeler
Monitor Date: `	November 16, 2007
Site Name/Number:	CFA-613/Caretakers Residence
Reason for monitori	
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	See attached Table
Significance of Impa	act: See attached Table
Did disturbance or i If yes, describe:	mpact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe:	Yes No X
Notifications:	BEA Facility Management
Primary contact(s):	Tom Wheeler
Date contacted:	November 16, 2006
Contact Method:	E-mail X with Phone Official correspondence,
	report CCN#:
	diadirod
r s v 1 ii v e ii k t	Building CF-613 is a single story, concrete and brick structure of residential scale. It has a full basement with concrete walls and a two wythe, 8" brick walls at the ground story, including brick walls at the roof gables. Internal partitions and roof framing are wood. The hand-split cedar shingle roof with associated ridge trim was installed ca. 1996. Historic Fabric: This structure has a high degree of original historic fabric, both interior and exterior. The exterior envelope of concrete foundation, brick exterior walls, exterior wood trim, and wood windows, along with the chimney and roof, have a high degree of integrity. The interior also has a high degree of historic fabric integrity in the form of wood trim, knotty pine paneling, period decorative cellotex wall board, and trim accessories. Alterations have affected some of the interior material hrough surface mounted electrical installations, painting, interior partitions (i.e., partition through the fireplace mantel)
Cultural Materials co	ollected? Yes No X
General Comments:	No new impacts have occurred and the eligibility is not affected; however, a lack of routine maintenance continues to add to cumulative impacts.
Recommendations:	See attached table for recommended treatments.
	ocumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: JBB	Date: November 16, 2007

Problem	Probable Cause	Testing and Investigation	Impact on the Structure	Treatment	Priority
Extreme temperature fluctuations	All utilities disconnected	Visual	Deterioration of historic fabric	Regulate temperatures	High
Peeling paint, interior and exterior	Minimal maintenance over past several years	Visual	Deterioration of underlying fabric	Scrap and repaint with historic colors	Medium
Bowing and collapsing ceiling tiles	Pest intrusion/freeze and thaw	Visual/smell	Acoustic tile ceiling is collapsing	Remove pests, fill entry holes with steel wool/remove ceiling tiles	High
Wet exterior masonry	Clogged drainage gutters	Visual	Deteriorating masonry	Clean gutters regularly	High
Cracks in foundation/west basement wall	Plants too close to foundation, watering foundation	Visual	Allows water entry into basement	Remove plants, fill cracks with like concrete, not Portland Cement	Medium

Monitor Number:	CFM-08
Monitor Name(s):	Clayton Marler, Robert Gallegos, Julie Braun
Monitor Date:	5/31/07
Site Name/Number: Reason for monitorir	WW II dump site (BEA-08-05-CFM-01) Routine
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	ct:
Did disturbance or in If yes, describe:	mpact extend into undisturbed areas? Yes No
Work Halted? If yes, describe:	Yes No
Notifications: Primary contact(s): Date contacted: Contact Method:	E-mail
Cultural Materials ob If yes, describe: _E	xtensive and dense WW II-era trash scatter
Cultural Materials co If yes, describe:	ellected? Yes No x
General Comments:	This is the little formally and the Outline with the contract of the contract
Recommendations:	This site should be formally recorded. Continue monitoring once per year.
	cumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: CFM	Date: 5/31/07

Appendix A: Experimental Breeder Reactor-I

Monitor Number:	JBB-01
Monitor Name(s):	Julie Braun
Monitor Date:	May 10, 2007
Site Name/Number Reason for monito	_
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Imp	No additional impacts to historic fabric have occurred. Technical problems do exist with the educational displays installed in 2005.
Did disturbance or If yes, describe:	impact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe: _	Yes No X
Notifications: Primary contact(s): Date contacted: Contact Method:	BEA Facility Management, BEA Communications, Atomic Heritage Foundation Dan Goulding, Don Miley, Cynthia Kelly Summer 2007 (various dates) E-mail X Phone Official correspondence, CCN#:
Cultural Materials of the control of	EBR I is a historic landmark and contains many historic features. It is a functional, multi-level industrial steel-frame structure in the Industrial Vernacular architectural style. It consists of a basement, ground floor, and mezzanine and is approximately 122 feet long by 77 feet wide. The height of the building above ground is approximately 50 feet and underground levels extend 30 feet below the surface. Two small rooms extend from the building's southern wall (see INL/EXT-06-11909 for further information).
Cultural Materials of the control of	
General Comments	: The building's interior and exterior were inspected using the "EBR-I Preservation Plan" (INL/EXT-06-11909) as the basis for determining if direct or further cumulative impacts have occurred. No impacts have occurred that would affect EBR I's National Historic Landmark status.
Recommendations	
Attach additional d If yes, describe: _	ocumentation, as warranted (photos, profiles, etc.) Yes No X
Initials: JBB	Date: May 10, 2007

Appendix A: Projects

Monitor Number:	HKG-07
Monitor Name(s):	Hollie Gilbert
Monitor Date:	May 14, 2007
Site Name/Number: Reason for monitori	National Security Large Scale Explosive Test Range Road Improvements Surveillance of road grading to avoid impacts to known archaeological sites
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	Vehicle traffic, road grading and leveling, equipment turnaround No grading was conducted within the boundaries of identified archaeological sites, so no impacts occurred.
If yes, describe: E	mpact extend into undisturbed areas? Sased on visual examination, road T-25 has been graded in the past, possibly during ire-fighting efforts or powerline maintenance
Work Halted? If yes, describe:N	Yes No X
Notifications:	None
Primary contact(s):	N/A
Date contacted: Contact Method:	N/A E-mail Phone Official correspondence, CCN#:
Contact Wethou.	L-mail Frione Official correspondence, Con.
N F	bserved? Yes X No Prehistoric lithic scatters are numerous along the powerline road (T-25) between the Materials and Fuels Complex (MFC) facility and the new National Security Test Range. They include: 10-BM-123, 10-BM-124, BEA-2006-20-7, 10-JF-77, 10-JF-78, 10-JF-80, 10-JF-83, 10-JF-84, and 10-JF-85.
Cultural Materials co	ollected? Yes No X
General Comments:	now very obvious where these sensitive resources are located. Gravel should be scattered in road along its entire length to camouflage their locations and help prevent unauthorized visitation and artifact collection. Additional monitoring should be conducted when gravel is added.
Recommendations:	Conduct additional monitoring when road is graveled. Remind Test Range personnel of cultural resource training requirements. Obtain project funding for these efforts.
	ocumentation, as warranted (photos, profiles, etc.) Yes X No
Initials: HKG	Date: May 14, 2007
iiiiuais. IING	Date. Way 14, 2007

Monitor Number: Monitor Name(s): Monitor Date:	BRP-01 Brenda R. Pace, Caroline Smith October 17, 2006
Site Name/Number: Reason for monitorii	Wireless Test Bed projects near CITRC/PBF Surprise check on project compliance with cultural resource recommendations
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impa	None None
	mpact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe: _N	Yes No X
Notifications: Primary contact(s): Date contacted: Contact Method:	None N/A N/A E-mail Phone Official correspondence, CCN#:
Cultural Materials ob If yes, describe: N	oserved? Yes No X
Cultural Materials co	ollected? Yes No X
General Comments:	Project is in compliance with cultural resource recommendations for installation of new cell tower and the new Drive-By Test Facility, both adjacent to Filmore Blvd.
Recommendations:	Continue sporadic monitoring of activities in and around the CITRC/PBF area.
Attach additional do	cumentation, as warranted (photos, profiles, etc.) Yes No X
Initials: BRP	Date: October 17, 2006

Monitor Number:	BRP-03					
Monitor Name(s):	Brenda R. Pace, Hollie Gilbert, Julie Braun					
Monitor Date:	March 22 – July 31, 2007					
Site Name/Numbe						
	(NODA)					
Reason for monito						
	6-Wheeler and a lightweight cart offroad to identify buried UXO and flag it for					
	future remediation. These project activities are being monitored to					
	determine if the offroad activity results in impacts to known historic and					
	prehistoric archaeological sites.					
Findings:	Type 1 X Type 2 Type 3 Type 4					
_						
Impact Agent(s):	6-Wheeler/cart driving offroad					
Significance of Im						
	impact harder gravel deposits. Impacts to ground surfaces appear to be					
	minimal, not much greater than intensive pedestrian activity.					
-						
	r impact extend into undisturbed areas? Yes X No					
If yes, describe:	At the present time, 6-Wheeler/cart surveys are restricted to areas previously					
-	surveyed for archaeological resources to assess impact and suitability for limited					
-	future deployment in unsurveyed areas. These areas are largely undisturbed.					
Work Halted?	Yes No X					
	N/A					
If yes, describe:	N/A					
Notifications:	None					
Primary contact(s)						
Date contacted:	N/A					
Contact Method: E-mail Phone Official correspondence, CCN#:						
Contact Method.	L-man i none ometai correspondence, con#.					
Cultural Materials	observed? Yes X No					
If yes, describe:	6-Wheeler/cart survey passed through the boundaries of two known archaeological					
_	sites with no appreciable negative impacts (10-BT-1974 and LMIT-99-08-12)					
Cultural Materials	collected? Yes No X					
If yes, describe:	N/A					
0	On the flee below to the control NODA office be a fill of Miller because the					
General Comment						
	does not appear to adversely impact historic or prehistoric archaeological sites.					
	Faint tracks are visible through softer soils, but not on flood gravels. No surface					
	artifacts were displaced or broken. Impacts are comparable to intensive foot					
December detien	traffic.					
Recommendations						
	any proposals to expand offroad surveys to other settings and soils as impacts					
	may be higher where soils are sandier and less consolidated. Complete					
	intensive archaeological surveys in advance of any proposed cleanup or					
	remediation resulting from these surveys. Directly monitor any proposed					
	removal inside the boundaries of known cultural resources.					
Attach additional	decumentation as warranted (photos profiles ata)					
Attacn additional (If ves describe:	documentation, as warranted (photos, profiles, etc.) Yes X No					

Initials:	BRP	Date:	March 22, 2007
	BRP		April 6, 18, 19, 2007
	BRP		May 2, 9, 21, 22, 29, 31, 2007
	BRP		June 5, 6, 10, 2007
	BRP		July 23, 25, 26, 31, 2007

Monitor Number:	BRP-07
Monitor Name(s):	Brenda R. Pace
Monitor Date: `´	August 16, 2007
Site Name/Number	r: National Security Large Scale Explosive Test Range
Reason for monito	
Findings:	Type 1 Type 2 X Type 3 Type 4
Impact Agent(s):	Vehicle traffic and equipment storage, explosive testing, cable installation
Significance of Im	pact: Unknown – expanded archaeological surveys must be completed to assess
	impacts along T-25, at original laydown area, along new access road, and at
	the test bed. Seismic data must be obtained and evaluated to assess
	impacts from testing.
Did disturbance or	r impact extend into undisturbed areas?
lf yes, describe:	Original survey of project laydown area extends only to the south of the new access
ii yes, describe.	road. Project activities are now occurring to the north of the laydown area into
-	unsurveyed lands. Project activities are extending beyond the 450' radius test bed
-	and out to the widest limits of cultural resource survey coverage. Numerous vehicle
-	turnarounds have been established along T-25, some inside the boundaries of
-	known archaeological sites. Cables are laying on the surface of the ground outside
-	the surveyed area along the new access road.
-	the surveyed area along the new access road.
Work Halted?	Yes No X
If yes, describe:	N/A
N - 4:6:4:	DEA National and Hamaland Consuits DEA Environmental Consuling
Notifications:	BEA National and Homeland Security, BEA Environmental Compliance
Primary contact(s)	
Date contacted:	August 16, 2007, September 26, 2007
Contact Method:	E-mail X Phone X Official correspondence, CCN#:
Cultural Materials	observed? Yes No X
If yes, describe:	Project activities are extending into unsurveyed areas and may be impacting
_	cultural materials.
O 16 1 M - 6 - 2 - 1 -	N. V
Cultural Materials If yes, describe:	collected? Yes No X N/A
ii yes, aeseribe	
General Comment	
	activities are extending into unsurveyed areas. Project has also failed to pro-
	vide seismic monitoring data for 10-JF-88 from initial large tests. Support for
	ongoing cultural resource monitoring has also not been provided. Test Range
	personnel have not been trained in archaeological awareness and protection.
Recommendations	
	survey to north of original laydown area if project plans to continue storing
	equipment there. Install fence around all laydown areas and test bed,
	including any necessary fire protection zones. Expand survey along new
	access road for cable installation. Formally request seismic data collected from
	initial large test and clarify location and frequency of future seismic monitoring.
	Remind Test Range personnel of cultural resource training requirements.
	Continue monitoring project compliance with all cultural resource recommendations as provided in the FA and FC. Obtain project funding for these efforts

Attach additional documentation, as warranted (phot lf yes, describe:		documentation, as warranted (photos, pr	rofiles, e	etc.) \	es _	No	X
Initials:	BRP		Date:	August 16,	2007		

Monitor Number: <u>E</u>	RP-11
Monitor Name(s): E	Brenda R. Pace, Wendy Savkranz
Monitor Date:	August 6, 2007
Site Name/Number: Reason for monitoring	CWI Concrete Crusher near INTEC Project surveillance to confirm compliance with cultural resource recommendations.
Findings:	Type 1 X Type 2 Type 3 Type 4
Impact Agent(s): Significance of Impac	None None
Did disturbance or im If yes, describe: No	pact extend into undisturbed areas? Yes No X
Work Halted? If yes, describe: N/A	Yes No X
Primary contact(s): Date contacted:	None N/A N/A E-mail Phone Official correspondence, CCN#:
Cultural Materials obs	
Cultural Materials coll If yes, describe: <u>N/</u>	
General Comments:	Project is in compliance with cultural resource recommendations and no adverse impacts have occurred or are anticipated. BEA Facilities and Site Services personnel provided incorrect information on cultural resource concerns to CWI and project.
Recommendations:	Continue monitoring at this location given plans for intensive activities in the area. Repair fence and install signs. Discuss protocol for cultural resource information transmittal with BEA Facilities and Site Services and CWI to clarify that only the INL CRM Office can provide reliable information and recommendations.
Attach additional doc	umentation, as warranted (photos, profiles, etc.) Yes No X
Initials: BRP	Date: _August 6, 2007

Monitor Number:	_BRP-12										
Monitor Name(s):	Brenda R. Pace										
Monitor Date: \ \	October 17, 2006 – September 6, 2007										
Site Name/Number	: Big Lost River Trenches										
Reason for monito											
iteason for monito	the Shoshone-Bannock Tribes										
	the Shoshone-Dannock Thises										
-											
Findings:	Type 1 X Type 2 Type 3 Type 4										
Impact Agent(s):	Heavy equipment										
Significance of Imp	No impacts beyond original disturbed area										
Did disturbance or	impact extend into undisturbed areas? Yes No X										
If yes, describe:	filling operations carefully designed to prevent disturbance outside the original										
_	area of potential effect.										
_	area or peterniar enect.										
Work Halted?	Yes No X										
lf yes, describe: _	N/A										
Notifications:	Shoshone-Bannock Tribes										
Primary contact(s)	: Caroline Smith										
Date contacted:	Multiple communications										
Contact Method:	E-mail X Phone X Official correspondence, CCN#: DOE-ID										
Cultural Materials	observed? Yes X No										
If yes, describe: Trenches were originally placed inside the boundaries of prehistoric lithic scatters as											
	well as the historic Powell Stage Station. Artifacts and cultural features occur in all										
-	areas and were observed during the backfilling operations in undisturbed areas										
-											
_	around the trenches. See forms for 10-BT-2194, 10-BT-2189, 10-BT-2193, and										
_	10-BT-2192.										
Cultural Materials	collected? Yes No X										
lf yes, describe: _	N/A										
General Comments	Backfilling activities began on August 28 and finished on September 6, 2007.										
	Heritage Tribal Office monitors were present each day. Project personnel were										
	cooperative and concerned about cultural resource protection, minimizing										
	impact as much as possible. No new impacts occurred and no new artifacts										
	were observed in the backdirt.										
5											
Recommendations	: Monitor revegetation efforts in October.										
Attach additional d	ocumentation, as warranted (photos, profiles, etc.) Yes X No										
If yes, describe:	photographs										
-											
Initials: BRP	Date: August 28 - 30, 2007										
BRP	September 4 - 6, 2007										

Monitor N	lumber:	BRP-	18										
Monitor N	lame(s):	Brenda R. Pace, Caroline Smith, Hollie Gilbert											
Monitor D	٠,,												
	-												
Site Name	e/Number:		Critical Infrastructure Test Range Complex (CITRC, formerly Power Burst										
-		_	Facility)										
Reason for monitoring:		ng:	Routine monitoring of ground disturbing activities within the CITRC/PBF area										
		•	particularly in the vicinity of PER-632 and the Waste Experimental Reduction										
		_							ve been d				
		-							ontexts an				
		-		ind MCI		iai (10 B		10) 0	ontoxto an	<u>u uo 100</u>	1an oa by		
		_	0000 a	ilia ivioi	-0400.								
Findings:	[Туре	1 X		Type 2			Ту	/pe 3]	Ту	pe 4	
Impost A	nont/o\		None										
Impact Agent(s): Significance of Impact:			None N/A										
Significar	ice of impa	ict:	IN/A										
Did dist				l !	. مان د ۱۰ مان د				Vaa		NI.		<u></u>
	rbance or i	•	extend	i into u	naisturbe	ed areas	6 7		Yes		No		X
If yes, des	scribe: N	I/A											
Work Half			Yes		No	X							
If yes, des	scribe: <u>N</u>	1/A											
Notification			<u>e requir</u>	ed unde	er Type 1	finding							
Primary c	ontact(s):	N/A											
Date cont	acted:	N/A											
Contact Method: E-n			ail	Pho	ne	Officia	corre	espo	ondence, (CCN#:			
													-
Cultural N	/laterials of	bserve	d?	Yes			No	X					
If yes, des	scribe: N	√A/A							-				
• ,													
Cultural N	/laterials co	ollecte	d?	Yes			No	Х	7				
If yes, des		1/A							_				
ii yos, ac.	<u> </u>	4 // 1											
General C	comments:	No) artifac	ts or hu	man rema	aine ohe	havra	in nr	roject exca	vations	(tank rei	mova	ı
Octional C	omments.								ng lot grad				<u> </u>
Dagamma	andations.												
Recomme	endations:								ojects in th				ne_
			•		-WP-800C), MCP-3	3480, 8	ana	the wishes	or the	Snosnon	<u>e-</u>	
		_Ba	annock T	I ribes.									
	lditional do	cume	ntation	, as wa	rranted (photos,	profil	es, e	etc.)	Yes		No	X
If yes, des	scribe:												
							_				_		
Initials:	BRP						Date	e: _	October '		3		
	BRP						_	_	July 23, 2				
	BRP						_	_	August 1	6, 2007			