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Environmental Assessment

For

**Adaptive Reuse Potential of Building 291
at Mountain Home Air Force Base, Idaho**



Prepared for:

**Department of the Air Force
366th Fighter Wing
Mountain Home Air Force Base, Idaho**

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1 **Cover Sheet**

2 **Responsible Agency:** 366th Fighter Wing, Mountain Home Air Force Base (AFB), Idaho.

3 **Proposed Action:** Building 291 and the accompanying 103 acres (referred to as the Alert
4 Complex) would be utilized for various training scenarios.

5 **Point of Contact:** Air Force Civil Engineer Center: Ms. Cynthia Pettit, AFCEC/CZN, 210-925-
6 3367; Mountain Home AFB: Sheri Robertson, 366 CES/CEIEA, COM 208-828-4247, DSN 728-
7 4247

8 **Report Designation:** Preliminary Draft Environmental Assessment (EA)

9 **Abstract:** Mountain Home AFB is preparing an EA addressing potential impacts of reuse options
10 for the Alert Complex. The purpose of this evaluation is to determine the most appropriate end
11 state of the Building 291 and the accompanying 103-acre that comprises the former Alert Complex
12 while considering both the *Sustainable Installations and Air Force 20/20 by 2020* memorandum
13 calling for reduction and consolidation of U. S. Air Force’s (USAF) real property, and *Executive*
14 *Order (EO) 13287: Preserve America*, which serves to protect cultural resources. This evaluation
15 is needed in order to most efficiently utilize available resources at Mountain Home AFB, while
16 also protecting valuable historic properties.

17 Building 291 and its 103-acre site at Mountain Home AFB is a National Register of Historic
18 Places-eligible facility while also being considered excess property by Mountain Home AFB. The
19 Alert Complex was constructed between 1957 and 1960 under the Strategic Air Command during
20 the Cold War. In 2015, a Programmatic Agreement between Mountain Home AFB, the Advisory
21 Council on Historic Preservation, and the Idaho State Historic Preservation Office was signed for
22 the “Cold War Alert Facility at Mountain Home AFB” (i.e. Alert Complex), which prescribes the
23 long-term management plan for the historic facility.

24 Under the Proposed Action, the Alert Complex would be utilized for various training scenarios.
25 Currently, the 366th Civil Engineer Squadron (CES) Readiness and Emergency Management
26 Flight and the 366th Fighter Wing (FW) are interested in utilizing the facility for training and
27 Building 291 would be renovated such that it could be used to support training operations.

28 The following resources were identified for study in this EA: noise, land use, hazardous materials
29 and wastes, biological resources, cultural resources, safety and occupational health, and utilities
30 and infrastructure.

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1 **DRAFT**
2 **FINDING OF NO SIGNIFICANT IMPACT**
3
4 **ENVIRONMENTAL ASSESSMENT**
5 **ADAPTIVE REUSE POTENTIAL OF BUILDING 291**
6 **MOUNTAIN HOME AIR FORCE BASE, IDAHO**

7 **AGENCY:** 366th Fighter Wing, Mountain Home Air Force Base (AFB), Idaho

8 **BACKGROUND:** The purpose of this evaluation is to determine the most appropriate end
9 state of Building 291 and the accompanying 103-acres that comprises the former Alert
10 Complex, while considering both the *Sustainable Installations and Air Force 20/20 by 2020*
11 memorandum calling for reduction and consolidation of United States Air Force’s (USAF) real
12 property, and *Executive Order (EO) 13287: Preserve America*, which serves to protect cultural
13 resources. This evaluation is needed in order to most efficiently utilize available resources at
14 Mountain Home AFB, while also protecting valuable historic properties.

15 Building 291 and its 103-acre site at Mountain Home AFB is a National Register of Historic
16 Places-eligible facility while also being considered excess property by Mountain Home AFB.
17 The Alert Complex was constructed between 1957 and 1960 under the Strategic Air Command
18 during the Cold War. The Alert Complex includes Building 291, three taxiways, two
19 herringbone alert aprons, access road system, secure fencing, and blast reflectors covering a
20 total area of 103 acres. The project site is located at the southeast corner of Mountain Home
21 AFB at the end of the main runway.

22 Building 291 is a two-level building that encompasses approximately 33,000 square feet. It
23 was vacated in 2007 and has not had routine maintenance since that time. In 2015, a
24 Programmatic Agreement between Mountain Home AFB, the Advisory Council on Historic
25 Preservation, and the Idaho State Historic Preservation Office (SHPO) was signed for the
26 “Cold War Alert Facility at Mountain Home AFB” (i.e. Alert Complex), which prescribes the
27 long-term management plan for the historic facility.

28 Pursuant to National Environmental Policy Act (NEPA), 32 Code of Federal Regulations 989,
29 *Air Force Environmental Impact Analysis Process*, and other applicable regulations, Mountain
30 Home AFB completed an Environmental Assessment (EA) of the potential environmental
31 consequences of various reuse options for the Alert Complex. Six action alternatives were
32 screened against the set of selection standards identified for potential reuse scenarios; however,
33 only the Proposed Action and the No-action Alternative satisfied the standards for comparison.
34 The attached EA evaluated the effects of the Proposed Action and the No-action Alternative,
35 and supports this Finding of No Significant Impact.

36 **Proposed Action:** Under the Proposed Action, the Alert Complex will be utilized for
37 various training scenarios. Currently, the 366th Civil Engineering Squadron (CES)
38 Readiness and Emergency Management Flight and the 366th Fighter Wing (FW) are
39 interested in utilizing the facility for training and Building 291 will be renovated such that
40 it could be used to support training operations.

1 **No-Action Alternative:** Under the No-action Alternative, the Alert Complex would be
2 managed according to the terms and conditions identified within the 2015 Programmatic
3 Agreement including, but not limited to:

- 4 • Preservation maintenance (housekeeping, routine and cyclic maintenance, and
5 stabilization) meeting the Secretary of the Interior’s Standards for the Treatment of
6 Historic Properties
- 7 • Routine grounds maintenance (e.g. grass cutting and tree trimming)
- 8 • Rehabilitation of existing parking pads, access roads, and sidewalks with in-kind
9 materials and features within previously disturbed areas
- 10 • Repaving of existing roads or existing parking areas within previously disturbed
11 areas
- 12 • Placement, maintenance, or replacement of below ground utility lines, transmission
13 lines, within previously disturbed areas
- 14 • Pest control, securing exterior envelope from moisture, and structurally stabilizing
15 building, where needed
- 16 • Maintenance of exterior berm
- 17 • Securing of building from vandals and break-ins
- 18 • Maintenance of interior ventilation per Secretary of Interior Standards
- 19 • Development of a routine maintenance and law enforcement monitoring plan and a
20 routine maintenance plan

21 **SUMMARY OF ENVIRONMENTAL EFFECTS FOR THE PROPOSED ACTION:**

22 **Noise** - Training activities anticipated under the Proposed Action are expected to be limited to
23 primarily office work and will not be expected to generate noise outside of Building 291.
24 Therefore, impacts for both Proposed Action are limited to construction noise. None of the
25 construction activities will produce noise levels at noise sensitive receptors above the
26 requisite level to protect health and welfare with an adequate margin of safety (i.e. 75
27 dBA). Therefore, impacts from noise are expected to be short-term and minor.

28 **Land Use** - The Proposed Action will not result in a change to the land use classifications of
29 the Alert Complex. Additionally, there would be no changes made to the existing Live
30 Ordnance Loading Areas (LOLAs) or their availability for aircraft parking. Although the Alert
31 Complex is located within Quantity Distance (QD) arcs, implementation of the Proposed
32 Action will include an emergency action plan to be implemented in the event that an
33 aircraft carrying explosive cargo must make an emergency landing at Mountain Home
34 AFB and must be parked on a LOLA.

35 **Hazardous Materials and Wastes** – Under the Proposed Action, hazardous waste would be
36 generated during building renovation activities including abatement of asbestos-containing
37 material (ACM) and lead based paint (LBP) and the removal of mercury and polychlorinated
38 biphenyl (PCB) containing materials. All ACM, LBP, mercury, and LBP activities will be
39 managed of in accordance with all federal, state, local, and USAF policies and regulations. In
40 addition, under the Proposed Action, pesticides will be used to control rodents currently
41 infesting the facility. Pesticides applications will follow all label cautions and instructions to

1 reduce hazards and be applied in accordance with all federal, state, and local regulations and
2 Department of Defense and USAF policies and requirements. No adverse impacts related to or
3 from hazardous materials and waste are anticipated as a result of implementation of the
4 Proposed Action.

5 **Biological Resources** – Implementation of the Proposed Action or the No-action Alternative
6 would not result in adverse impacts to biological resources.

7 **Cultural Resources** – Implementation of the Proposed Action or the No-action Alternative
8 would not result in adverse impacts to cultural resources.

9 **Safety and Occupational Health** – The potential presence of Hantavirus Pulmonary
10 Syndrome (HPS) within Building 291 due to the infestation of rodents is a safety concern for
11 any building occupants. Pest management at Mountain Home AFB applies pesticide quarterly
12 to the exterior of the facility in order to limit rodent activity within and around the building.
13 Implementation of pest management practices would minimize the risk of personnel
14 contracting HPS.

15 Since the Alert Complex is located within QD arcs associated with the LOLAs, exposure to
16 man-made hazards would be limited to potential damage or injury from nearby potential
17 explosion sites at the LOLAs. In the event of an emergency landing that must occupy the
18 LOLA, no non-mission essential personnel would occupy the area within the QD arcs. This
19 safety plan would be implemented to reduce the potential explosive hazard to personnel within
20 the Alert Complex.

21 Building 291 reportedly contains ACM, LBP, mercury, and PCBs, which would be removed
22 by a trained contractor. All ACM, LBP, mercury, and PCBs removed would be managed in
23 accordance with all federal, state, and local regulations and Department of Defense and USAF
24 policies and requirements. Removal of these hazardous materials from Building 291 would
25 result in a beneficial impact in that the materials would no longer present a hazard to building
26 occupants.

27 No adverse safety or occupational health impacts are expected as a result of the Proposed
28 Action.

29 **Utilities and Infrastructure** – Trenching for underground utility renovation and/or
30 replacement would result in short-term disturbance to previously disturbed soils. Fugitive dust
31 may be generated but would be minor and short-term, would fall off rapidly with distance
32 from the construction site, and would last only as long as the duration of soil disturbance.
33 Upgrades to utilities and infrastructure will result in beneficial impacts.

34 **SUMMARY OF MITIGATION MEASURES AND BEST MANAGEMENT**
35 **PRACTICES:** Mitigation is not needed, as the implementation of this proposal is not
36 anticipated to significantly impact the environment in any area. Additionally, unless otherwise
37 stated below, Best Management Practices (BMPs) are not recommended.

38 **Noise** - BMPs would include equipping noise-generating heavy equipment at the project site
39 with the manufacturer's standard noise control devices. All equipment should be properly
40 maintained to ensure that no additional noise from worn or improperly maintained equipment

1 parts is generated. Construction activities would occur between 0700 and 1900 hours (when
2 possible) and would be conducted according to Occupational Safety and Health Administration
3 regulations. These minimization measures shall be updated to reflect current practices at the
4 time of project execution.

5 **Land Use** – No measures to minimize impacts or BMPs would be necessary. Preparation and
6 implementation of an emergency action plan within the QD arcs would alleviate any land use
7 conflicts.

8 **Hazardous Materials and Wastes** – Hazardous materials and wastes would be managed in
9 accordance with all federal, state, and local regulations and Department of Defense and USAF
10 policies and requirements.

11 **Biological Resources** - Wildlife and conservation management practices would be followed in
12 order to ensure that the habitat necessary for protected species is not lost. To avoid any
13 adverse impacts to the burrowing owl, ground nesting surveys should be conducted prior to
14 any (currently unforeseen) ground disturbance that would occur during the nesting season from
15 approximately 1 April through 15 July. If nesting burrowing owls are reported during the
16 survey, then no ground disturbance should occur. To avoid adverse impacts to the long-eared
17 myotis, buildings should be inspected for roosting bats prior to the start of proposed building
18 renovation activities.

19 **Cultural Resources** – No measures to minimize impacts or BMPs would be necessary.
20 Consultations with the SHPO regarding the selected action and compliance with the
21 Programmatic Agreement was initiated in October 2015 and is in process.

22 **Safety and Occupational Health** – BMPs to limit safety hazards would include briefings with
23 personnel on HPS; signage posted to indicate parking areas and required traffic flow patterns;
24 signage and fencing to indicate construction areas; and personnel conducting LBP, and ACM,
25 mercury, and PCB removal doing so in accordance with regulations, policies, and
26 requirements. Implementation of pest management practices and a standard cleaning regime at
27 Building 291 would minimize worker’s and personnel’s risk of contracting HPS. Additionally,
28 preparation and implementation of an emergency action plan within the QD arcs would
29 minimize the risk of injury to workers due to unforeseen explosions.

30 **Utilities and Infrastructure** – BMPs to reduce fugitive dust would include spraying water
31 over the soil during trenching activities. Erosion control measures, such as silt fences or other
32 barricades may be necessary to prevent soil runoff and would be included as BMPs within a
33 Storm Water Pollution Prevention Plan. BMPs to minimize hazards to workers and base
34 personnel would include posting signage and erecting fencing around construction areas.

35 **SUMMARY OF FINDINGS FOR NO ACTION ALTERNATIVE:** Under the No-action
36 Alternative, training activities would not occur on the Alert Complex. Impacts resulting from
37 Programmatic Agreement compliance would be the same as those described for the Proposed
38 Action.

39
40 **SUMMARY OF CUMULATIVE EFFECTS:** Currently, there are no known projects
41 planned for the foreseeable future that would affect Building 291 and its accompanying 103
42 acres.

1 **FINDING OF NO SIGNIFICANT IMPACT:**

2 Based upon my review of the attached EA, I conclude that the Proposed Action will not have a
3 significant direct, indirect, or cumulative impact upon the environment. Accordingly, the
4 requirements of the NEPA, regulations promulgated by the President's Council on
5 Environmental Quality, and 32 CFR Part 989 are fulfilled and an Environmental Impact
6 Statement is not required at this time.

7

8 _____
9

Date

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1 **Privacy Advisory Notice**

2 Letters or other written comments provided may be published in the Final EA. As required by
3 law, comments will be addressed in the Final EA and made available to the public. Any personal
4 information provided will be kept confidential. Private addresses will be compiled to develop a
5 mailing list for those requesting copies of the Final EA. However, only the names of the
6 individuals making comments and their specific comments will be disclosed. Personal home
7 addresses and phone numbers will not be published in the Final EA.

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ACRONYMS AND ABBREVIATIONS

1		
2	AFB	Air Force Base
3	AFI	Air Force Instruction
4	AFM	Air Force Manual
5	AFOSH	Air Force Office of Safety and Health
6	AFSAS	Air Force Safety Automated System
7	AICUZ	Air Installation Compatible Use Zone
8	AP	Accumulation Points
9	APZ	Accident Potential Zone
10	BASH	Bird Air Strike Hazard
11	BMP	Best Management Practice
12	CAA	Clean Air Act
13	CDC	Center for Disease Control
14	CDP	Census Designated Place
15	CEQ	(The President's) Council on Environmental Quality
16	CERCLA	Comprehensive Environmental Response, Compensation, and Liability
17		Act of 1980
18	CES	Civil Engineer Squadron
19	CFR	<i>Code of Federal Regulations</i>
20	COC	Community of Comparison
21	CWA	Clean Water Act
22	dba	"A-weighted" decibels
23	DERP	Defense Environmental Restoration Program
24	DNL	Day-Night Average Sound Level
25	DoD	(U.S.) Department of Defense
26	EA	Environmental Assessment
27	EIAP	Environmental Impact Analysis Process
28	EO	Executive Order
29	EPCRA	Emergency Planning and Community Right-to-Know Act
30	ERP	Environmental Restoration Program
31	FEMA	Federal Emergency Management Agency
32	FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
33	FONSI	Finding of No Significant Impact
34	FW	Fighter Wing
35	FY	Fiscal Year

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ACRONYMS AND ABBREVIATIONS (CONTINUED)

1	HAP	High Accident Potential
2	HAZMART	Hazardous Materials Pharmacy
3	HPS	Hantavirus Pulmonary Syndrome
4	ICRMP	Integrated Cultural Resources Management Plan
5	INRMP	Integrated Natural Resources Management Plan
6	IPMP	Integrated Pest Management Plan
7	kg	Kilograms
8	LBP	Lead-Based Paint
9	Lmax	Maximum Sound Level
10	LOLA	Live Ordnance Loading Area
11	LQG	Large-Quantity Generator
12	MBTA	Migratory Bird Treaty Act
13	MC	Munitions Constituents
14	mg/cm ²	Milligrams per Centimeter Squared
15	MSW	Municipal Solid Waste
16	NEPA	National Environmental Policy Act
17	NHPA	National Historic Preservation Act
18	NPDES	National Pollutant Discharge Elimination System
19	NRHP	National Register of Historic Places
20	OSHA	Occupational Safety and Health Administration
21	PCBs	Polychlorinated Biphenyls
22	QD	Quantity-Distance
23	RCRA	Resource Conservation and Recovery Act
24	RFR	Laser or Radio Frequency
25	ROI	Region of Influence
26	RSAF	Republic of Singapore Air Force
27	SAC	Strategic Air Command
28	SHPO	State Historic Preservation Office
29	SPL	Sound Pressure Level
30	SWMP	Solid Waste Management Plan

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*Environmental Assessment
Acronyms and Abbreviations*

*Adaptive Reuse Potential of Building 291
Mountain Home Air Force Base, Idaho*

ACRONYMS AND ABBREVIATIONS (CONTINUED)

1	TSCA	Toxic Substance Control Act
2	U.S.	United States
3	USAF	U.S. Air Force
4	USDOT	U.S. Department of Transportation
5	USEPA	U.S. Environmental Protection Agency
6	USFWS	U.S. Fish and Wildlife Service
7	UU/UE	Unlimited Use/Unrestricted Exposure
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CHAPTER 1
PURPOSE OF AND NEED FOR ACTION

1.1 INTRODUCTION

Mountain Home Air Force Base (AFB) is home to the 366th Fighter Wing (FW), which consists of four groups and three squadrons. The FW has the firepower of approximately 50 F-15E Strike Eagle aircraft and 12 Republic of Singapore Air Force (RSAF) F-15SG aircraft. An active Air National Guard unit, the 266th Range Squadron, controls and maintains emitter sites within the 9,600-square mile operational training range located in southern Idaho. The mission of Mountain Home AFB is to prepare mission ready Gunfighters to fight and win today’s war and the next (MHAFB 2015a).

Encompassing 6,844 acres, Mountain Home AFB is located within southwestern Idaho, approximately 40 miles southeast of Boise, in Elmore County (Figure 1-1). The installation is located at an elevation of 2,996 feet above sea level and is in the western portion of the geologic feature known as the Snake River Plain.

1.2 PURPOSE AND NEED

The purpose of this evaluation is to determine the most appropriate end state of the Building 291 and the accompanying 103-acre that comprises the former Alert Complex while considering both the *Sustainable Installations and Air Force 20/20 by 2020* memorandum calling for reduction and consolidation of U. S. Air Force’s (USAF) real property, and *Executive Order (EO) 13287: Preserve America*, which serves to protect cultural resources. This evaluation is needed in order to most efficiently utilize available resources at Mountain Home AFB, while also protecting valuable historic properties.

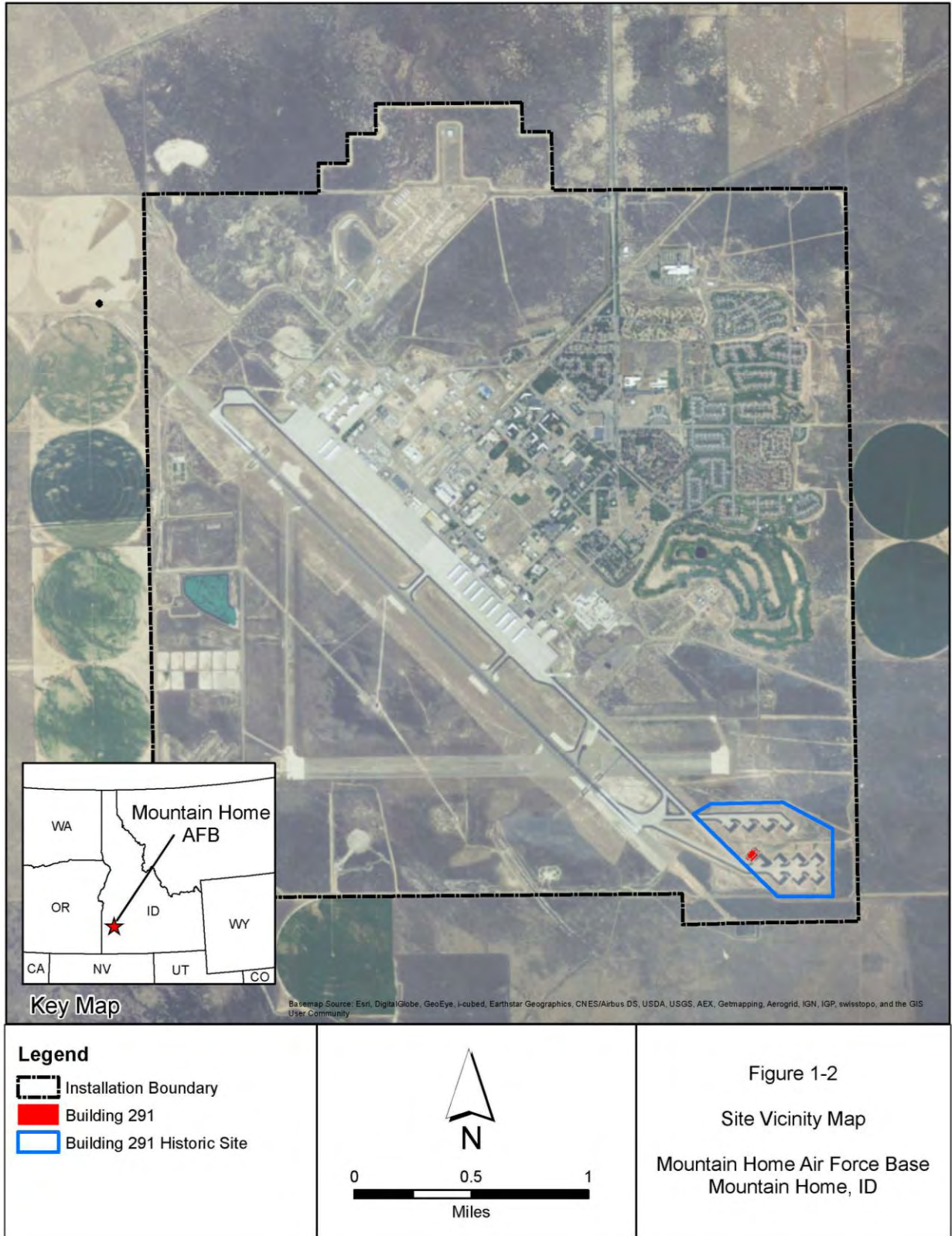
Building 291 and its 103-acre site (hereon called the Alert Complex) at Mountain Home AFB is a National Register of Historic Places (NRHP)-eligible facility while, with the exception of the Live Ordnance Loading Area (LOLA) ramps within the Alert Complex, it is also considered non-functional property by Mountain Home AFB. The Alert Complex was constructed between 1957 and 1960 under the Strategic Air Command (SAC) during the Cold War. The Alert Complex includes Building 291, three taxiways, two herringbone alert aprons, access road system, secure fencing, and blast reflectors covering a total area of 103 acres (MHAFB 2015b). The project site is located at the southeast corner of Mountain Home AFB at the end of the main runway (Figure 1-2).

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Figure 1-1 Project Location Map



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Figure 1-2 Site Vicinity Map

1 Building 291 is a two-level building that encompasses approximately 33,000 square feet that was
2 vacated in 2007 and has not had routine maintenance since that time. The building has been
3 vandalized and was previously infested with rodents. In 2013, a feasibility study was conducted
4 to determine the potential future usefulness of the facility with consideration to cost impacts
5 necessary for maintenance and upgrades for building occupancy. That study determined that the
6 building, although structurally sound, contains environmental hazards and poor conditions of most
7 infrastructure systems (e.g. mechanical, plumbing, fire protection) (ACC 2013; included as
8 Appendix B). In 2015, a Programmatic Agreement between Mountain Home AFB, the Advisory
9 Council on Historic Preservation, and the Idaho State Historic Preservation Office (SHPO) was
10 signed for the “Cold War Alert Facility at Mountain Home AFB” (i.e. Alert Complex), that
11 prescribes the long-term management plan for the historic facility (included as Appendix A)
12 (MHAFB 2015b).

13 In June 2010, a Presidential Memorandum was released titled *Disposing of Unneeded Federal*
14 *Real Estate* which charged all federal agencies with disposing of unneeded real estate, with a focus
15 on utilizing installations more efficiently by optimizing facility-space use, reducing energy and
16 water operating costs, and sustaining only those facilities needed to conduct the mission (POTUS
17 2010). The *Sustainable Installations and Air Force 20/20 by 2020* memorandum signed by the
18 Vice Chief of Staff on 14 February 2011 is the USAF initiative to comply with this Presidential
19 Memorandum by achieving efficiencies through reducing the owned, leased and USAF-led joint
20 base real property and associated operating costs by 20 percent by the year 2020. One component
21 of this initiative includes consolidating USAF operations into right-sized facilities and
22 demolishing those that do not meet space utilization criteria (USAF 2011).

23 In 2003, *EO 13287: Preserve America* was signed that served to actively advance the protection,
24 enhancement, and contemporary use of the historic properties owned by the Federal Government,
25 and promote intergovernmental cooperation and partnerships for the preservation and use of
26 historic properties (POTUS 2003). In 2004, the U.S. Department of Defense (DoD) released a
27 Response to EO 13287 wherein it summarizes the DoD’s policies regarding management and
28 conservation of cultural resources in conjunction with preserving the mission of the DoD and its
29 components (DoD 2004).

30 **1.3 DECISION TO BE MADE**

31 This Environmental Assessment (EA) evaluates the potential environmental consequences of six
32 options for the Alert Complex at Mountain Home AFB (i.e. demolition and adaptive re-use).
33 Based on the analysis in this EA, the USAF will make one of three decisions regarding the project
34 analyzed: 1) Choose the alternative action that best meets the purpose and need for this project
35 and sign a Finding of No Significant Impact (FONSI), allowing implementation of the selected
36 alternative; 2) initiate preparation of an Environmental Impact Statement if it is determined that
37 significant impacts would occur with implementation of the actions; or 3) select the No-action
38 Alternative, whereby none of the action alternatives would be implemented. As required by the
39 National Environmental Policy Act (NEPA) and its implementing regulations, preparation of an
40 environmental document must precede final decisions regarding the proposed project and be
41 available to inform decision-makers of the potential environmental impacts.

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1 **1.4 INTERGOVERNMENTAL COORDINATION/ CONSULTATIONS**

2 Through Interagency Coordination, requests have been made for information on planned actions
3 in the surrounding community. Federal, state, and local agencies with jurisdiction that could be
4 affected by the alternatives will be notified and consulted. A complete listing of the agencies
5 consulted may be found in Chapter 6 and interagency correspondence and responses are included
6 in Appendix C. This coordination fulfills the Interagency Coordination Act and EO 12372
7 *Intergovernmental Review of Federal Programs* (14 July 1982), which requires Federal agencies
8 to cooperate with and consider state and local views in implementing a Federal proposal.

9 If any concurrent actions are identified during the EA process, they will be examined only in the
10 context of potential cumulative impacts. A cumulative impact, as defined by The President's
11 Council on Environmental Quality (CEQ) (40 Code of Federal Regulations [CFR] 1508.7), is the
12 "impact on the environment which results from the incremental impact of the action when added
13 to other past, present, and reasonably foreseeable future actions regardless of which agency
14 (Federal or non-Federal) or person undertakes such actions. Cumulative impacts can result from
15 individually minor but collectively significant actions taking place over a period of time."

16 Based on review of the potential for adverse impacts, the Idaho SHPO and other interested parties
17 have been contacted to initiate the Section 106 consultation. This consultation fulfills 36 CFR Part
18 800, "Protection of Historic Properties." While Interagency Coordination letters serve as
19 notification of a proposed action and seek to determine an agency's interest, they do not substitute
20 for the Section 106 process. The Section 106 process is initiated through a Government-to-
21 Government letter that declares the intended purpose of initiating the Section 106 process, and
22 through the on-going consultation, seeks ways to avoid, minimize, or mitigate adverse impacts.

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*Environmental Assessment
Purpose of and Need for Action*

*Adaptive Reuse Potential of Building 291
Mountain Home Air Force Base, Idaho*

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**CHAPTER 2
DESCRIPTION OF THE PROPOSED ACTION
AND ALTERNATIVE**

2.1 PROPOSED ACTION

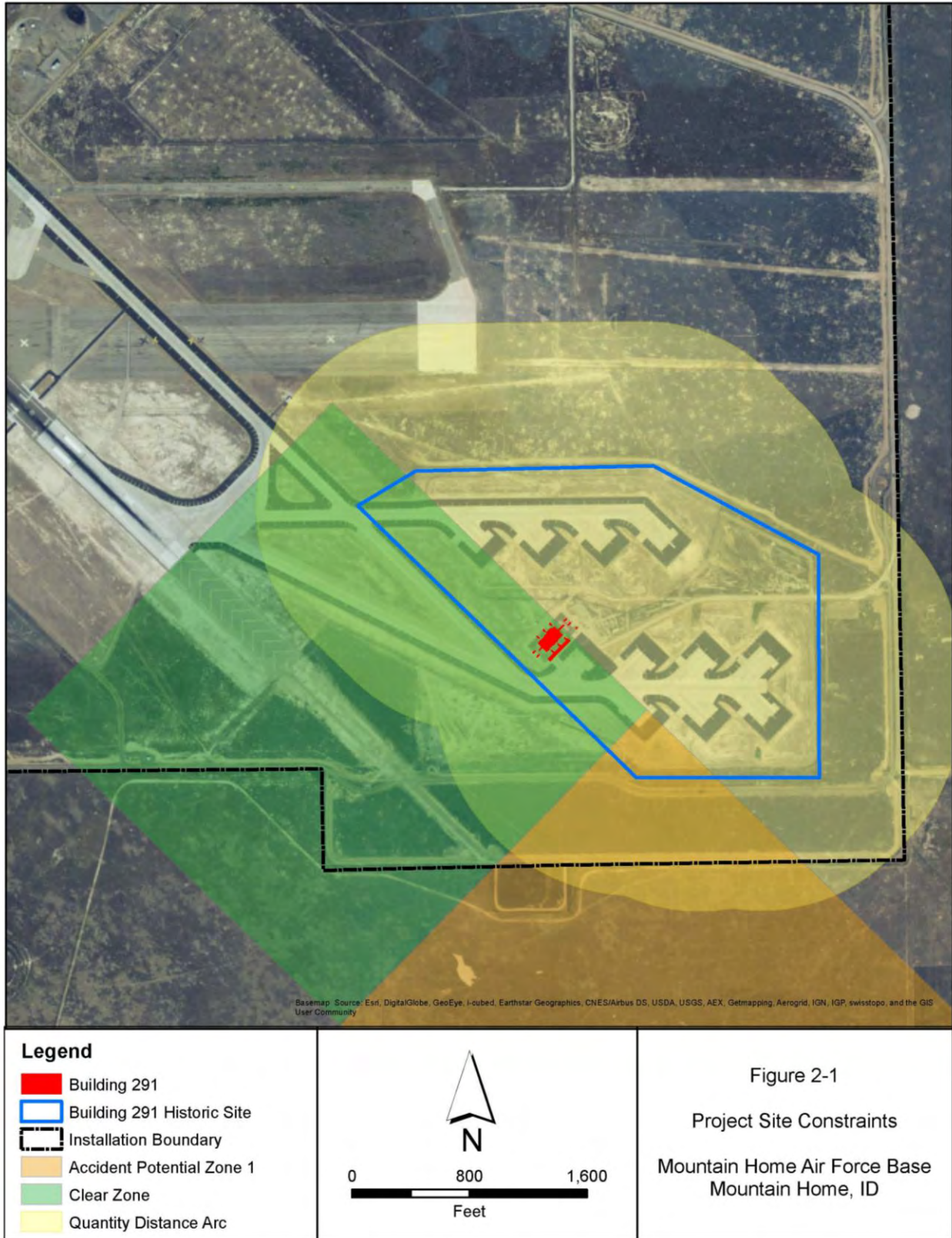
Under the Proposed Action, the Alert Complex would be utilized for various training scenarios. Currently, the 366th CES Readiness and Emergency Management Flight and the 366th FW are interested in utilizing the facility for training and Building 291 would be renovated such that it could be used to support training operations. 366 CES Readiness and Emergency Management would use the facility as a base of operations for Operations and Maintenance Groups when the rest of their units are operating out of the MOAB exercise site located approximately 1.5 miles west of Building 291.

2.2 SELECTION STANDARDS

Building 291 is located at the end of a runway and it falls within the runway clear zone. Runway clear zones are areas on the ground, located at the ends of runways. They possess a high potential for accidents and their use is restricted to be compatible with aircraft operations. Structures within runway clear zones are not normally compatible and are typically prohibited; however, Building 291 has received an exemption because the facility was constructed under a previous standard. Additionally, a portion of a LOLA associated with the 103-acre Alert Complex is located within the Accident Potential Zone (APZ) I. An APZ is an area that lies beyond the clear zone with lower, but still considerable accident potential. The current LOLA land use is compatible with the APZ I at Mountain Home AFB. The entire Alert Complex is also located within Quantity-Distance (QD) arcs. QD arcs represent an established distance around potential explosion sites to indicate the potential damage or injury radius of explosions from that site. In this case, the potential explosion sites are the LOLAs. When an aircraft carrying explosive cargo must make an emergency landing at Mountain Home AFB, the aircraft are parked on a LOLA until the emergency has been resolved. During this time, no non-mission essential personnel can occupy the area within the QD arcs. Figure 2-1 depicts the Alert Complex in relation to the Clear Zone, APZ I, and the QD Arcs.

Selection standards serve to assist Mountain Home AFB in defining the minimum standards that any alternative must meet. They help to identify a reasonable range of alternatives to be analyzed within the EA. Selection standards in this EA were developed based on USAF initiatives, EOs, and SHPO requirements.

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Figure 2-1 Possible Site Constraints

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1 All viable alternatives must:

- 2 • Comply with 20/20 by 2020 initiative by optimizing facility-space use, reducing energy
3 and water operating costs, and sustaining only those facilities needed to conduct the
4 mission,
- 5 • Comply with EO 13287 by advancing the protection, enhancement, and contemporary
6 use of the historic properties owned by the Federal Government,
- 7 • Address remediation of the existing environmental hazards,
- 8 • Maintain compliance with the Building 291 Programmatic Agreement, and
- 9 • For re-use options,
 - 10 ○ replace or restore to good condition the infrastructure systems within the building,
 - 11 ○ have interested party, and
 - 12 ○ maintain the building's façade such that it does not alter the architectural integrity of
13 the site.

14 **2.3 SCREENING OF ALTERNATIVES**

15 The following six action alternatives were reviewed against the selection standards:

16 Enhanced Use Lease of the Property – This alternative would require an USAF solicitation of the
17 Building 291 property to attract an outside entity who would be interested in leasing the property.

18 Relocation of the Entire Facility and Future Re-use – This alternative would include intact removal
19 of Building 291 and the other associated historic structures on the property and relocation to an
20 alternate location. After relocation of the facility, Mountain Home AFB would continue to
21 maintain the facility in accordance with the Programmatic Agreement for Building 291 until such
22 a time that a new facility use is identified. Infrastructure systems would not be updated until a
23 new facility use was identified.

24 Renovation and Mothballing of Facility – This alternative would include hazardous materials
25 remediation; roof replacement or renovation; and replacement/renovation of existing utilities at
26 Building 291; rehabilitation of existing parking pads, access roads, and sidewalks; and repaving
27 of existing roads or existing parking areas. After renovation activities are complete, the building
28 would remain vacant until a future use for the building was identified. Annual maintenance would
29 occur according to the terms and conditions set forth in the Programmatic Agreement for Building
30 291.

31 Demolition of Building 291 – This alternative would include hazardous materials remediation and
32 subsequent demolition of Building 291 and all associated structures within the 103-acre property.

33 Re-use of Building 291 for a Document Repository – This alternative would include hazardous
34 materials remediation, roof replacement or renovation, and replacement/renovation of existing
35 utilities at Building 291. A document repository (electronic or digital) would then be located
36 within Building 291. This repository could be exclusively for Mountain Home AFB, or could

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1 serve as a USAF-wide repository. The repository would comply with Air Force Manual (AFM)
2 33-363: Management of Records.

3 Re-use of Building 291 Site for Training – This alternative would include remediation of all
4 hazardous, replacement or renovation of the roof, and replacement or renovation of existing
5 utilities such that the facility could be used for training scenarios. None of the building’s exterior
6 features would be modified for re-use of the facility. Additionally, all management components
7 of the 2015 Programmatic Agreement would be followed by the training units. Training instructors
8 would coordinate training times with the Airfield Manager so as not to conflict with scheduled
9 LOLA occupation by an aircraft.

10 Table 2-1 below compares each alternative considered against the stated selection standards.
11 Alternatives which meet a given selection standard are indicated in green; whereas, alternatives
12 which do not meet a given selection standard are indicated in red.

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Table 2-1 Selection Standard Comparison Against Alternatives

		Alternatives					
		Enhanced Use Lease	Relocation and Future Re-use	Renovate and Mothballing	Demolition	Re-use for Document Repository	Re-use for Training
Selection Criteria	Compliance with 20/20 by 2020						
	Compliance with EO 13287						
	Address Remediation of Environmental Hazards						
	Compliance with B291 PA						
	Replace or Restore Infrastructure Systems*						
	Interested Party for Re-use *						
	Maintain Building Façade to Keep Architectural Integrity of Site*						

* Does not apply to demolition alternative.

- Indicates that the alternative meets the selection standard
- Indicates that the alternative does not meet the selection standard
- Indicates that the alternative is not applicable to be compared against the selection standard

2 Five of the alternatives in Table 2-1 fail to meet the selection standards and have been eliminated
 3 from detailed analysis as discussed in Section 2.6. The alternative that meets all of the selection
 4 standards is the re-use of the Alert Complex for training; therefore, this alternative is being carried
 5 forward for detailed analysis in the EA and is described further in Section 2.4 below as the
 6 Proposed Action. Additionally, as required by the NEPA, the No-action Alternative will also be
 7 examined in this EA and is described more fully in Section 2.5.

8 **2.4 DETAILED DESCRIPTION OF THE PROPOSED ACTION**

9 Under the Proposed Action, Building 291 and the accompanying 103 acres comprising the Alert
 10 Complex would be utilized for various training scenarios. Building 291 is a two-level building
 11 that encompasses approximately 33,000 square feet that has been previously used for training

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1 scenarios prior to 2007. The Alert Complex is in close proximity to the southern apron along the
2 principal runway for Mountain Home AFB with road access to the facility. The lower level of the
3 facility is subterranean and previously accommodated areas that served as temporary living
4 quarters during the occupancy of the facility from 1960 to 2007. The second level of the building
5 has no windows and accommodated partitioned offices, meeting areas, and restroom facilities
6 (ACC 2013).

7 The 366 CES Readiness and Emergency Management Flight and the 366 FW are interested in
8 utilizing the facility for training and Building 291 would be renovated such that it could be used
9 for either or both scenarios. 366 CES Readiness and Emergency Management Flight would use
10 the facility as a base of operations for Operations and Maintenance Groups when the rest of their
11 units are operating out of the MOAB exercise site located approximately 1.5 miles west of Building
12 291. The 366 FW would use the facility as a deployed operations center for those visiting units
13 who come to Mountain Home AFB to use the Mountain Home Range Complexes. Both the 366
14 CES Readiness and Emergency Management Flight and the 366 FW would coordinate with each
15 other and with the Airfield Manager to schedule and coordinate training.

16 Each training class sizes would vary between a few dozen to a few hundred and could potentially
17 involve 24-hour operations, which would require using some of the building as living quarters.
18 Re-use of the facility would allow the units to train in a currently underutilized facility, thereby
19 optimizing facility-space use and complying with the 20/20 by 2020 initiative. Additionally, the
20 Proposed Action would comply with EO 13287 by assisting Mountain Home AFB in protecting
21 and using a historic property.

22 Prior to conducting any training, Mountain Home AFB would install communication ports for
23 computer and phone work stations, renovate or create dormitory space (including installation of
24 smoke detectors), install emergency lighting, replace exit signage, repair or replace egress/fire
25 doors, replace fire alarm system (including wiring), remediate all hazardous materials located
26 within Building 291, replace or renovate the existing Building 291 roof, and replace/renovate
27 existing utilities at Building 291. None of the building's exterior features would be modified for
28 re-use of the facility. Additionally, all components of the 2015 Programmatic Agreement would
29 be followed by the training units. Training instructors would coordinate training times with the
30 Airfield Manager so as not to conflict with scheduled LOLA occupation by an aircraft. In the
31 event that an aircraft carrying explosive cargo must make an emergency landing at Mountain Home
32 AFB, the Airfield Manager would immediately notify the training instructor, wherein the instructor
33 would begin an immediate evacuation of the property such that all personnel would relocate
34 outside the QD Arcs for that aircraft's location on the LOLA. No new personnel would be
35 employed or utilized under the Proposed Action.

36 **2.5 NO-ACTION ALTERNATIVE**

37 Under the No-action Alternative, the Alert Complex would be managed according to the terms and
38 conditions identified within the 2015 Programmatic Agreement (MHAFB 2015b) including, but
39 not limited to:

- 40 • Preservation maintenance meeting standards and guidelines

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- 1 • Routine grounds maintenance (e.g. grass cutting and tree trimming)
- 2 • Rehabilitation of existing parking pads, access roads, and sidewalks with in-kind
- 3 materials and features within previously disturbed areas
- 4 • Repaving of existing roads or existing parking areas within previously disturbed areas
- 5 • Placement, maintenance, or replacement of below ground utility lines, transmission lines,
- 6 within previously disturbed areas
- 7 • Pest control, securing exterior envelope from moisture, and structurally stabilizing
- 8 building, where needed
- 9 • Maintenance of exterior berm
- 10 • Securing of building from vandals and break-ins
- 11 • Maintenance of interior ventilation per Secretary of Interior Standards
- 12 • Development of a routine maintenance and law enforcement monitoring plan and a
- 13 routine maintenance plan.

14 **2.6 ALTERNATIVES ELIMINATED FROM DETAILED ANALYSIS**

15 The alternatives identified in Table 2-1 that do not meet the selection standards were not carried
16 forward for detailed analysis. Additional details on why each alternative was eliminated is
17 provided below.

18 Enhanced Use Lease (EUL) of the Property – A lease of the facility would require the leasing
19 entity’s use of the property to be compatible with airfield operations as well as maintaining
20 compliance with the Programmatic Agreement. Issues regarding the existing LOLA would need
21 to be addressed either through relocation of the LOLA, or real-time emergency management
22 procedures. Additionally, any leasing entity would have to address existing environmental hazards
23 and degraded infrastructure systems as conditions of a lease. Based on current environmental
24 hazards, degraded infrastructure conditions, and facility use restrictions the building has not been
25 solicited for EUL.

26 Relocation of the Entire Facility and Future Re-use – This alternative could potentially damage the
27 existing historic resources. The setting of the 103 acres and all associated structures are important
28 to the NRHP eligibility. Additionally, areas of the Alert Complex are needed for parking of aircraft
29 and therefore could not be re-located. Would be a significant impact, unable to mitigate for the
30 total loss of the historic property. In addition, there are currently no entities who have expressed
31 interest in this property for re-use at an alternate location.

32 Renovation and Mothballing of Facility – Other than that described in the Proposed Action, no
33 other entities have expressed interest in this property for other future reuses.

34 Demolition of Building 291 – Demolition of Building 291 would not comply with EO 13287 or
35 the Programmatic Agreement for the building. Demolition would result in a significant impact,
36 unable to mitigate for the total loss of the 103-acre historic property.

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1 Re-use of Building 291 for a Document Repository – Currently no need exists for an installation-
2 or USAF-wide repository and no parties have expressed interest in this specific re-use.

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- | | | | |
|---|------------------------------------|---|----------------------------------|
| 1 | • Noise | 6 | • Cultural Resources |
| 2 | • Land Use | 7 | • Safety and Occupational Health |
| 3 | • Hazardous Materials and Waste | 8 | • Utilities and Infrastructure |
| 4 | • Biological and Natural Resources | 9 | • Transportation |
| 5 | • Visual Resources | | |

10 3.2.2 Resource Topics Eliminated from Detailed Analysis

11 As part of the analysis process, all resource areas that have the potential to impact or be impacted
12 by the Proposed Action are considered during the preliminary assessment phase of the analysis.

13 Water Resources. Water resources include groundwater, surface water, floodplains, and wetlands.
14 Because both the Proposed Action and the No-action alternative would have no impact on
15 groundwater resources, groundwater has been eliminated from detailed analysis in this EA. Since
16 there are no jurisdiction wetlands or waters of the United States located at Mountain Home AFB,
17 a detailed analysis of wetlands and surface waters have been eliminated from the EA (MHAFB
18 2007). Additionally, there are no 100- or 500-year floodplains within the Mountain Home AFB
19 boundaries; therefore floodplains have also been eliminated from detailed analysis in this EA
20 (FEMA 1989).

21 Earth Resources. The Proposed Action activities would be limited to actions within the 103-acre
22 Alert Complex and would not impact soils or geology. Any temporary infrastructure (e.g. tents)
23 erected under the Proposed Action would not result in intrusive ground disturbance; therefore,
24 soils and geology would not be affected. Utility upgrades and replacement within the 103-acre
25 site could potentially impact soils and/or geology but will be further discussed below in Chapter 4
26 within the Utilities and Infrastructure section. Aside from impacts related to utilities, earth
27 resources has been eliminated from detailed analysis.

28 Air Quality. The Proposed Action activities would not require limited use of heavy construction
29 equipment, which would be the primary source of pollutant emissions. Generally speaking, the
30 Proposed Action activities would be completed with the use of hand tools that do not create
31 emissions. Heavy equipment (such as a boom lift for roof renovations or trenchers used during
32 underground utility upgrades and replacements) would be used minimally. There would be
33 negligible emissions from the vehicles involved in the few material deliveries that would be
34 required and the minimal privately owned contractor vehicles during their commute to the job site.
35 The renovation of Building 291 would not result in significant ambient air impacts. There would
36 be no long term emissions increase from the use of the Alert Complex by base personnel. The
37 conversion to electric heating and air conditioning would not create any new stationary long term
38 operational emission sources.

39 Repaving, asphalt rehabilitation and other maintenance activities under the Programmatic
40 Agreement would require temporary use of mobile emission sources such as pavers and rollers.
41 The emissions from these sources would be temporary and eliminated after completion of the
42 activity. There would be minimal ambient air impacts from these localized short-term emissions

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1 that would quickly dissipate with distance from the activity source. The emission of minor amounts
2 of air pollution would be unavoidable; however, the individual and cumulative impacts during the
3 Programmatic Agreement activities would have little impact on the local emissions. Therefore, Air
4 Quality has been eliminated from detailed analysis.

5 Visual Resources. Under the Proposed Action, there would be no change in the natural and man-
6 made features on or within the vicinity of the Alert Complex. Therefore, Visual Resources has
7 been eliminated from detailed analysis.

8 Socioeconomics. Under the Proposed Action, there would be no increase in permanent base
9 population and therefore, no increase in housing or education requirements. However, it is likely
10 that the local economy would benefit from expenditures incurred from the environmental
11 remediation and renovation of Building 291. Construction materials and goods (e.g., gasoline for
12 equipment and trucks) would be expected to be purchased from the local area. It should be noted
13 that employment in the area would not increase since it is expected that the remediation and
14 construction companies would utilize their current employees. Since socioeconomic impacts are
15 not expected beyond what are described here, socioeconomic as a resource topic has been
16 eliminated from further analysis in this document.

17 Environmental Justice. EO 12898, *Federal Actions to Address Environmental Justice in Minority*
18 *Populations and Low-Income Populations*, was issued by the President on 11 February 1994. In
19 the EO, the President instructed each Federal agency to make “achieving environmental justice
20 part of its mission by identifying and addressing, as appropriate, disproportionately high and
21 adverse human health or environmental effects of its programs, policies, and activities on minority
22 populations and low-income populations.” ‘Adverse’ is defined by the Federal Interagency
23 Working Group on Environmental Justice as “having a deleterious effect on human health or the
24 environment that is significant, unacceptable, or above generally accepted norms.”

25 In order to determine if minority and low-income populations would be disproportionately
26 impacted by the Proposed Action, two areas of comparison must first be determined:

- 27
- The area potentially affected by the action (i.e., Region of Influence [ROI]); and
 - The larger regional community that includes the affected area and serves as a Community
28 of Comparison (COC).
29

30 For this analysis, the Mountain Home AFB Census Designated Place (CDP) is considered the ROI,
31 and Elmore County is considered the COC. Table 3-1 shows the percent minority and low-income
32 populations for the ROI and COC.

33 At least one criteria listed below must be met to determine if an environmental justice population
34 is present:

- If the affected area’s percentage of minority or low-income population is greater than that
35 of the general population, the affected area is considered to be a minority or low-income
36 population.
37

- If the minority population (including Hispanics or Latinos) or low-income population is greater than 50 percent, it is considered a majority-minority or majority low-income population.

Table 3-1 Percent Minority Population and Low-Income Population

Demographic Area	Total Population	Total Hispanic/Latino Population	Percent Hispanic/Latino	Total Minority Race Population	Percent Minority Race ^a	Total Low-Income Population	Percent Low Income
Region of Influence							
Mountain Home AFB CDP	3,238	234	7.2	779	24	198	6.1
Community of Comparison							
Elmore County, ID	27,038	4,186	15.5	4,767	17.6	4,597	17

Source: USCB 2015

Notes:

^a Minority Race includes Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; and some other race.

Bold text notates the presence of an Environmental Justice population

AFB – Air Force Base

CDP – Census Designated Place

ID – Idaho

Based on the criteria above, there is a minority population present within the Mountain Home AFB CDP. However, all of the impacts associated with the Proposed Action would be localized, both spatially and temporally, to the vicinity of the proposed project site and would not be expected to create disproportionate and adverse impacts to the minority population. Therefore, no impacts to environmental justice would be anticipated under the Proposed Action and no further environmental justice analysis is warranted or included in this EA.

3.3 NOISE

3.3.1 Definition of the Resource

Noise is sound that, if loud enough, can induce hearing loss and can be undesirable if it annoys people due to interference with ordinary daily activities, such as communication or sleep. A person’s reaction to noise varies according to the duration, type, and characteristics of the source, distance between the source and receiver, receiver’s sensitivity, background noise level and time of day.

Sound is a series of vibrations (energy) transmitted through a medium that are perceived by a receiver. Sound varies in intensity and frequency. It is measured by accounting for the energy level represented by the amplitude (volume) and frequency (pitch) of those vibrations and comparing that to a baseline standard. Sound pressure level (SPL) described in decibels (dB) is used to quantify sound intensity. It is a measure of the maximum sound pressure at a given instant and known distance. The dB is a logarithmic unit that expresses the ratio of the SPL to a standard reference level. When using decibels to depict airborne SPLs, zero dB is the threshold of human

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1 hearing and exponential increases occur every ten dB. An event that generates 60 dB of sound is
2 twice as loud as one that generates 50 dB.. It is important to note that due to the logarithmic nature
3 of the decibel, individual events cannot simply be added directly.

4 The Day-Night Average Sound Level (DNL) is one of the most common ways to describe ambient
5 noise exposure over an extended period of time. DNL is the metric recognized by the US
6 government for measuring noise and its impacts on humans. It describes a receiver's cumulative
7 noise exposure from all events occurring during a 24-hour period; events occurring between 10:00
8 p.m. and 7:00 a.m. ("environmental night") are increased by 10 dB to account for greater nighttime
9 sensitivity to noise events. The SPL represented by a given decibel value is usually adjusted to
10 make it more relevant to sound that the human ear hears especially well; for example, an "A-
11 weighted" decibel (dBA) is derived from emphasizing mid-range frequencies to which the human
12 ear responds especially well and de-emphasizing the lower and higher range frequencies.

13 The Maximum Sound Level (Lmax) is the peak value of all the A-Weighted Sound Levels that
14 occur during a noise event. The limitation of this metric for noise (annoyance) analysis is that
15 peak sound level without a context of duration or time of day does not adequately address
16 annoyance. For example, most would agree that a single 140 dB Lmax event lasting 3 seconds
17 (i.e., an aircraft flyover) that occurs once per day around 1:00 p.m. is less annoying than a 95 dB
18 Lmax event (a jackhammer in a construction site) that lasts for 6 hours, every day and occurs at
19 11:00 p.m.

20 Federal and local governments have established noise guidelines and regulations for the purpose
21 of protecting citizens from potential hearing damage and from various other adverse physiological,
22 psychological, and social effects associated with noise.

23 Hearing Loss. The potential for permanent hearing loss arises from direct exposure to noise on a
24 regular, continuing long-term basis to levels about 75 dBA DNL. Hearing loss is not expected in
25 people exposed to 75 dBA DNL or less for eight hours per day, as long as noise exposure over the
26 remaining 16 hours per day is low enough to not substantially contribute to the 24-hour average
27 (USEPA 1974).

28 Construction Noise. Building construction and demolition work can cause an increase in sound
29 that is well above the ambient level. Table 3-2 lists noise levels associated with the types of
30 construction equipment expected to be utilized during demolition, site preparation, construction,
31 and finishing work associated with the Proposed Action. As shown in Table 3-2 the construction
32 equipment produces peak SPLs ranging from 75 to 89 dBA at 50 feet (ft) from the source; which
33 decreases by six dBA with every doubling of the distance from the source. It should also be noted
34 that this table includes the level generated, but does not account for the ability of sound to be
35 reflected/absorbed by nearby objects, which could increase or further reduce noise levels.

36 Air Installation Compatible Use Zones (AICUZ). The AICUZ program was established to protect
37 the public health, safety, and welfare, while ensuring sustainability of the USAF's operational
38 capability. An AICUZ study assists local, regional, state, and federal officials by providing
39 compatible land use recommendations for areas exposed to noise resulting from aircraft operational
40 and maintenance activities, and for areas where the risk of an aircraft accident occurring is greatest.

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1 Land use comprises the natural conditions and/or human-modified activities occurring at a
2 particular location. Management plans and zoning regulations determine the type and extent of
3 land use allowable in specific areas and are often intended to protect specially designated or
4 environmentally sensitive areas and sensitive noise receptors.

5 **Table 3-2 Construction Equipment Peak Sound Pressure Levels**

Equipment	Generated Noise ¹ dBA				
	50 ft	100 ft	200 ft	400 ft	800 ft
Backhoe	78	72	66	60	54
Compactor	83	77	71	65	59
Crane	81	75	69	63	57
Dump Truck	76	70	64	58	52
Excavator	81	75	69	63	57
Front-end Loader	79	73	67	61	55
Grader	85	79	73	67	61
Jackhammer	89	83	77	71	65
Paver	77	71	65	59	53
Pickup Truck	75	69	63	57	51
Roller	80	74	68	62	56
Scraper	84	78	72	66	60

Source: USDOT 2006

Notes:

¹ Noise from a single source.
dBA - "A-weighted" decibel
ft - feet

6 3.3.2 Existing Conditions

7 The primary source of noise in the area surrounding the Alert Complex is associated with aircraft
8 operations. Aircraft stationed at Mountain Home AFB include the USAF's F-15E Strike Eagle and
9 the RSAF F-15SG. Additionally, the base is the location for flight line and equipment maintenance
10 for the F-15E/SE aircraft stationed at the base (MHAFB 1998). Other transient aircraft do also
11 occasionally utilize the airfield at Mountain Home AFB. Aircraft flight operations include
12 departures, arrivals, and pattern work in the local area. Aircraft maintenance operations are
13 associated with pre-flight and post-flight engine runs and when aircraft require maintenance.

14 The noise contours (Figure 3-1) are primarily driven by flight operations from aircraft stationed at
15 Mountain Home AFB. Noise levels at Building 291 are between 70 and 75 dB DNL and could
16 approach 80 dB(A) near the LOLAs and surrounding land parcels..



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Figure 3-1 AICUZ Noise Contours

1 **3.4 LAND USE**

2 **3.4.1 Definition of the Resource**

3 Land use generally refers to any human modification of land, and land dedicated for preservation
4 or protection of natural resources. A major part of land use planning at Mountain Home AFB is
5 analyzing compatible land uses and ensuring that future land use does not result in an incompatible
6 land use. The evaluation of existing and future land use is important to establish and to identify
7 any potential conflicts with future land-use plans. This section describes the land-use resources
8 that could potentially be affected by the Proposed Action or No-action Alternative. For this
9 analysis, the ROI includes the Alert Complex, as well as APZ I and the Clear Zone.

10 Mountain Home AFB is located in the state of Idaho approximately 40 miles southeast of Boise
11 and approximately 10 miles southwest of the town of Mountain Home. The installation is located
12 within Elmore County and is surrounded by rural land primarily used for agriculture. Highway 67
13 runs northeast-southwest just a few miles north of the base and Highway 51 runs north-south
14 approximately 6 miles east of the base. The CJ Strike Reservoir is located approximately 4 miles
15 south of the installation. In total, the AFB encompasses approximately 6,844 acres of land that is
16 all base-owned property.

17 **3.4.2 Existing Conditions**

18 **3.4.2.1 Existing Land Use**

19 Historically, Building 291, or the Strategic Air Command’s Alert Complex was used at the height
20 of the Cold War to provide quarters for air crews on 24-hour alert. The crew’s bombers and tankers
21 were strategically parked adjacent to Building 291 on 45-degree parking aprons with a 45-degree
22 entry to the runway for take-off. This configuration of aircraft and crew vastly improved the Air
23 Force’s response time (MHAFB 2015c).

24 The 103-acre Alert Complex is comprised of two land use classifications – approximately 10 acres
25 of Open Buffer Zone at the north of the complex and approximately 90 acres of Air Operations
26 and Maintenance south of the Open Buffer Zone area.

27 **3.4.2.2 Restricted Land Use**

28 Building 291 is located at the end of a runway and it falls within the runway clear zone. Runway
29 clear zones are areas on the ground, located at the ends of runways. They possess a high potential
30 for accidents and their use is restricted to be compatible with aircraft operations. Structures within
31 runway clear zones are not normally compatible and are typically prohibited; however, Building
32 291 has received an exemption because the facility was constructed under a previous standard.

33 A portion of a LOLA located near the Alert Complex is located within the APZ I, as shown on
34 Figure 2-1; however, the current LOLA land use, Air Operations and Maintenance, is compatible
35 with this APZ. Due to the presence of LOLAs at the Alert Complex, the entire 103-acre site is
36 also located within QD arcs indicating the potential damage or injury radius of explosions from

1 the LOLA sites. When an aircraft carrying explosive cargo must make an emergency landing at
2 Mountain Home AFB, the aircraft are parked on one of the Alert Complex’s LOLAs until the
3 emergency has been resolved. During this time, no non-mission essential personnel can occupy
4 the area within the QD arcs. In other words, Building 291 and the entire 103-acre site must be
5 vacant any time potentially explosive materials are located at the LOLAs.

6 **3.5 HAZARDOUS MATERIALS AND WASTES**

7 The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA),
8 defines a hazardous substance as: “(A) any substance designated pursuant to section 1321
9 (b)(2)(A) of Title 33; (B) any element, compound, mixture, solution, or substance designated
10 pursuant to section 9602 of this title; (C) any hazardous waste having the characteristics identified
11 under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act (RCRA)
12 of the 1976, as amended, (42 U.S.C. §6921); (D) any toxic pollutant listed under section 1317(a)
13 of Title 33; (E) any hazardous air pollutants listed under section 112 of the Clean Air Act (CAA)
14 (42 U.S.C. §7412); and (F) any imminently hazardous chemical substance or mixture with respect
15 to which the Administrator of the U.S. Environmental Protection Agency (USEPA) has taken
16 action pursuant to section 2606 of Title 15.”

17 Hazardous waste is defined by RCRA in 42 U.S.C. §6903 as “a solid waste, or combination of
18 solid wastes, which because of its quantity, concentration or physical, chemical, or infectious
19 characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase
20 in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or
21 potential hazard to human health or the environment when improperly treated, stored, transported,
22 or disposed of, or otherwise managed.”

23 **3.5.1 Existing Conditions**

24 Hazardous material use and management at Mountain Home AFB are regulated under the Air
25 Force Occupational Safety and Health Standards 127-43, the Emergency Planning and Community
26 Right-to-Know Act (EPCRA), the 40 CFR Part 158, Federal Insecticide, Fungicide, and
27 Rodenticide Act (FIFRA), 7 U.S.C. 136, et seq, the RCRA, and the Toxic Substances Control Act
28 (TSCA). The U.S. Department of Transportation (USDOT) regulates the transport of hazardous
29 materials in 49 CFR Parts 105-180.

30 Management of hazardous materials at Mountain Home AFB is established by Air Force
31 Instruction (AFI) 32-7086 Hazardous Materials Management, which incorporates the federal
32 regulations, DoD directives, and other AFIs for the reduction of hazardous material uses and
33 purchases. Guidance for the management of hazardous materials is found in the 3209-CY,
34 Hazardous Materials Emergency Planning and Response Plan and the 3209-CY, and the Pollution
35 Prevention Management Plan (MHAFFB 2010a).

36 Current operations at Mountain Home AFB require the use of hazardous materials in varying
37 quantities. Hazardous materials such as flammable and combustible liquids, acids, corrosives,
38 caustics, anti-icing chemicals, compressed gases, solvents, paints, paint thinners, and pesticides
39 are used throughout the Base. The Base operates a hazardous materials pharmacy (HAZMART)

1 program. The HAZMART is responsible for purchasing hazardous materials, maintaining an
2 inventory database, and maintaining Safety Data Sheets (SDS) for hazardous material (MHAFB
3 2015). Hazardous materials are also used by military and contractors. The location of hazardous
4 materials, the procedures and equipment at Mountain Home AFB to prevent and clean up a release,
5 and the actions to take in the event of a release are located in the Mountain Home AFB Hazardous
6 Waste Management Plan (MHAFB 2015d). The regulations require personnel using hazardous
7 materials to be aware of the possible dangers, to know the locations of SDS for all hazardous
8 materials that they are using on base, to understand safe storage procedures, and to wear the correct
9 personal protective equipment (PPE) required for the materials that are being used.

10 **3.5.1.1 Asbestos**

11 Asbestos management at Air Force installations is established in AFI 32-1052, Facility Asbestos
12 Management, which requires the development of an asbestos management plan for the purpose of
13 maintaining a permanent record of the current status and condition of all asbestos-containing
14 materials (ACM) in the installation’s inventory of facilities and documenting all asbestos
15 management efforts. In addition, installations are required to develop an asbestos operation plan
16 that details how the installation conducts asbestos-related projects. The USEPA regulates Asbestos
17 under Occupational Safety and Health Administration (OSHA), 29 USC §669, *et seq.* Emissions
18 of asbestos fibers to ambient air are regulated under Section 112 of the CAA.

19 Mountain Home AFB maintains an Asbestos Operations Management Plan that is designed to
20 establish operations and management organizational responsibilities and procedures for ensuring
21 that personnel in USAF facilities are not exposed to excessive levels of airborne asbestos fibers.
22 The plan provides the foundation for maintaining a record on the current status and conditions of
23 ACM, and guidelines for dealing with ACM removal and control operations (MHAFB 2015e).

24 Building 291 was constructed when ACMs were commonly used. An ACM survey was conducted
25 in the facility in 2012. The survey revealed nine different ACM existing in varying concentrations
26 from 2% to 23% ACM. Approximately 18,750 square feet (ft²) of the tile with black mastic is
27 present on the first floor and approximately 6,400 ft² of tile and black mastic is present on the
28 second floor. Approximately half of the floor tiles on the second floor were reportedly abated
29 during a facility renovation (CH2M Hill 2012). Table 3-3 summarizes the results of the 2012
30 ACM survey at Building 291.

1 **Table 3-3 2012 ACM Survey Findings – Building 291**

Sample Location	Sample Result	Friable (Yes or No)	Estimated Quantity
Roof Tar Paper	5%	Yes	19,200 ft ²
White Floor tile	2%	No	9,300 ft ²
Black Mastic 1 st floor*	4-5%		
Brown Floor Tile	3-5%	No	9,300 ft ²
Black Mastic 1 st floor*	3%		
Red Floor Tile	5%	No	100 ft ²
Black Mastic 1 st floor	3%		
Green Floor Tile	2%	No	50 ft ²
Black Mastic 1 st floor	4%		
Boiler Insulation* Boiler Room	20-23%	Yes	500 ft ²
Boiler Water Tank Insulation	22%	Yes	200 ft ²
Grey Floor Tile	5%	No	3,200 ft ²
Black Mastic 2 nd floor*	2-4%		
Brown Floor Tile	2%	No	3,200 ft ²
Black Mastic	5%		

2 * More than one sample was collected for this sample location.
3 ft²-square feet

4 **3.5.1.2 Lead-Based Paint**

5 The U.S. Department of Housing and Urban Development has defined lead-based paint (LBP) as
6 any paint, varnish, shellac or other coating that contains lead equal to or greater than 10 milligrams
7 per centimeter squared (mg/cm²) as measured by x-ray fluorescence or laboratory analysis, or 0.5
8 percent by weight (5,000 milligrams per kilogram [mg/kg]) as measured by laboratory analysis.
9 The Residential Lead-Based Paint Hazard Reduction Act of 1992 regulates the use and disposal of
10 LBP at federal facilities. Federal agencies are required to obey all applicable federal, state,
11 interstate, and local laws relating to LBP hazards (MHAFB 2010b).

12 The Air Force policy and guidance on LBP in facilities establishes the management of LBP at Air
13 Force installations by requiring each installation to develop and implement a facility management
14 plan for identifying, evaluating, managing, and abating LBP hazards (MHAFB 2015f).

15 Building 291 was constructed when LBP was commonly used. Building 291 was surveyed for
16 LBP in 2012. Fifty-two physical samples of each homogeneous sampling area were collected.
17 Seven different colors of LBP were identified during the survey covering over 900 ft². The exact
18 quantity of LBP was not calculated during the survey (CH2M Hill 2012). Table 3-4 summarizes
19 the results of the 2012 LBP survey at Building 291.

Table 3-4 LBP Survey Results

Sample Location	Sample Result (mg/kg)	Estimated Quantity
1 st floor hallway Red electrical box	102,000	None Provided
Blue metal stairs Stairwell to the 2 nd floor	14,600	None Provided
Grey metal handrail in boiler room	9,730	30 ft.
Grey metal door inside boiler room	11,400	1 door
Grey cement wall in boiler room	6,280	Entire wall
Green pipe wrap in boiler room	13,400	300 ft.
Gray electrical boxes in boiler room	5,230	100 ft ²
Grey metal boiler	8,250	500 ft ²
2 nd floor blue metal door	34,400	Up to 8 doors (not provided)
Orange metal ladder leading to roof hatch in stairwell	207,000	15 ft
Metal exterior brown handrail leading from 2 nd floor to ground level	23,100	6 sets of handrails

Source: (CH2M Hill 2012)

3.5.1.3 Pesticides/Herbicides

Mountain Home AFB maintains an Integrated Pest Management Plan (IPMP) which describes how the installation will comply with the requirements of DoD Instruction 4150.07, “DoD Pest Management Program.” Under AFI 32-1053, installation Pest Management coordinator works in civil engineering and is responsible for installation’s pest management program. All Base installation pest management personnel are required to be DoD certified to ensure that pesticides are applied according to the directions for the product. The FIFRA provides framework for the sale, distribution, and use of pesticides. FIFRA applies to all types of pesticides, including insecticides, herbicides, fungicides, rodenticides, and antimicrobials. Pest management at Mountain Home AFB includes inspection and control of public health related pests, stored product pests, structural pests, noxious or invasive plants and animals and undesirable vegetation (MHAFB 2012a).

Pest control services for Building 291 include rodent control inclusive of the quarterly application of rodenticide to the exterior of the facility; placement of rodent traps within the facility, and refilling the rodent bait boxes with the rodenticide Contrac bait blox. Approximately 160 ounces of Contrac bait blox are used annually in Building 291. Insecticide treatment includes applying insecticide to venomous arthropods when discovered. The typical application would occur three times a year in the spring, summer, and fall. Approximately 7.5 ounces of insecticide are applied around the exterior of Building 291 annually (Ash 2015).

Herbicide application varies depending on weather conditions. Wet conditions support weed growth and require increased herbicide application. Under typical weather conditions one application of herbicide in the spring will control vegetation for up to eight weeks. Approximately two gallons of RoundUp and two gallons of Weedar 64 herbicide are applied to the vegetation around Building 291 annually (Ash 2015). Alternate methods to control undesirable vegetation include burning or mechanical ground application of herbicide. Aerial application of herbicide is

1 often implemented for large control areas when ground control techniques are not successful or
2 are too time consuming (MHAFB 2012a).

3 Pesticide use is of particular concern for Building 291 due to the infestation of rodents and their
4 ability to be a vector for the diseases such as Hantavirus pulmonary syndrome (HPS), leptospirosis,
5 rat-bite fever, and salmonella (ACC 2013; Center for Disease Control [CDC] No Date [ND];
6 MHAFB 2012a). HPS is a potentially fatal disease to humans carried by the following rodents in
7 North America: the deer mouse, the white-footed mouse, the rice rat, and the cotton rat. Humans
8 can become exposed to the HPS when they breathe in aerosolized rodent urine or droppings (e.g.
9 sweeping) or when they touch rodent droppings, urine, or nesting material that could contain the
10 virus and subsequently touch their eyes, nose or mouth (CDC ND).

11 **3.5.1.4 Mercury and Polychlorinated Biphenyl Containing Electronics**

12 A room by room inspection of Building 291 was conducted for Mercury and Polychlorinated
13 biphenyls (PCBs) containing materials. PCBs from fluorescent light ballasts and mercury from
14 thermostats or fluorescent light tubes were identified. The survey identified mercury in a
15 thermostat and fluorescent light ballasts with labels that did not indicate if they contained PCBs
16 (CH2M Hill 2012).

17 **3.5.1.5 Hazardous Waste**

18 Hazardous wastes are defined by the Solid Waste Disposal Act as amended by RCRA, which was
19 further amended by the Hazardous and Solid Waste Amendments, RCRA subtitle C (40 CFR, Parts
20 260 through 270). Hazardous waste management at Mountain Home AFB is also regulated under
21 AFI 32-7042, *Hazardous Waste Compliance*. Mountain Home AFB maintains a Hazardous Waste
22 Management program, as directed by AFI 32-7042.

23 Mountain Home AFB is considered a Large-Quantity Generator (LQG) of hazardous waste. A
24 LQG generates more than 1,000 kilograms (kg) of hazardous waste per month or more than 1 kg
25 of acutely hazardous waste per month (USEPA 2015). Hazardous wastes are collected at
26 approximately 155 accumulation points (AP). A contractor transports hazardous waste from the
27 APs to a 90-day central collection facility (Building 1296). The AP is an area near the point of
28 waste generation where the user accumulates small quantities of “regulated hazardous waste” up
29 to 55 gallons or up to 1 quart of “acutely hazardous waste.” An AP can also accumulate universal
30 wastes. Universal waste generators are allowed to accumulate universal waste at their location for
31 no more than 6 months from the accumulation start date. Once the 6-month time limit has been
32 reached, the universal waste must be turned in to the central collection facility for disposal
33 (MHAFB 2015d). Idaho includes the following as universal waste:

- 34 • Batteries, including nickel-cadmium and small sealed lead-acid batteries;
- 35 • Agricultural pesticides, including those that have been recalled or banned from use;
- 36 • Mercury-containing devices, including thermostats, barometers, manometers, temperature
37 and pressure gauges, and mercury switches; and

- 1 • Spent lamps, including fluorescent tubes, and high-intensity discharge, neon mercury
2 vapor, high-pressure sodium, mercury vapor, and metal halide lamps (Idaho Department
3 of Environmental Quality [IDEQ] 2013).

4 **3.5.1.6 Environmental Restoration Program**

5 The Environmental Restoration Program (ERP) is a DoD program which requires each installation
6 to identify, investigate, and clean up hazardous waste disposal or release sites. The objective of
7 the ERP is to identify and evaluate any areas suspected to be contaminated with hazardous
8 materials caused by past USAF operations and to eliminate or control any hazards to the public
9 health, welfare, or the environment. The ERP is a subcomponent of the Defense Environmental
10 Restoration Program (DERP) that became law under the Superfund Amendments and
11 Reauthorization Act.

12 There are 32 ERP sites at Mountain Home AFB, four have land use controls; four are in the
13 Remedial Action-Operations stage and are included in the Long Term Monitoring Program; and
14 the remaining 24 have unlimited use/unrestricted exposure (UU/UE) status and do not have
15 restrictions on the use of the land or other natural resources (MHAFB 2010c; MHAFB 2011a).
16 Site DP-9 was a waste oil disposal area and is the only ERP site is within 0.5 miles of Building
17 291. Site DP-09 underwent evaluation and the potential land use is UU/UE. Additionally, the site
18 is not considered a threat to regional groundwater (MHAFB 2010c).

19 **3.6 BIOLOGICAL AND NATURAL RESOURCES**

20 **3.6.1 Definition of the Resource**

21 Biological resources are all the living components of an ecosystem and at Mountain Home AFB
22 include various wildlife and plant species. Natural resources as defined in the Code of Regulations
23 encompass land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other
24 such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled
25 by the United States, any State or local government, or any foreign government. The 2012
26 Integrated Natural Resource Management Plan (INRMP) identifies specific natural resources
27 within the Mountain Home AFB ROI including controlling invasive species, maintaining and
28 restoring vegetative communities, reducing the risk of wildfire, managing threatened and
29 endangered and special status species, and applying livestock grazing practices (MHAFB 2012b).

30 Site-specific descriptions of the affected environment for biological and natural resources are more
31 appropriately limited to the Alert Complex. Resources that are not likely to be present in the Alert
32 Complex (wetland and deep water habitats and livestock grazing practices) are not included in the
33 descriptions below.

1 **3.6.2 Existing Conditions**

2 **3.6.2.1 Vegetation**

3 **Local Flora.** Historically, Mountain Home AFB was predominantly covered with Wyoming big
4 sagebrush communities with an understory of native forbs and grasses. The greater ROI of
5 Mountain Home AFB lies within the regional landform and vegetation classification known as the
6 Intermountain Sagebrush Province/Sagebrush Steppe Ecosystem (Bailey and Kuckler 1996),
7 which is widespread over much of southern Idaho, eastern Oregon, eastern Washington, and
8 portions of northern Nevada, California, and Utah. This ecosystem contains a large diversity of
9 landforms and vegetation types, ranging from vast expanses of flat sagebrush covered plateaus to
10 rugged mountains blanketed with juniper woodlands and grasslands.

11 Currently most of Mountain Home AFB is
12 occupied by buildings, residences, training-
13 related facilities, runways, streets, sewage
14 ponds, landfills, and rubble piles. Besides
15 planted urban forests, the condition of
16 vegetation communities within the ROI of
17 Mountain Home AFB is fair to poor.
18 Undeveloped open areas, are dominated by
19 exotic annual weed species when they used to
20 be covered with sagebrush. Most open space
21 on the Base is covered by a mix of weedy
22 annual grasses and invasive species, such as
23 annual kochia (*Bassia scoparia*), Russian
24 thistle (*Salsola kali*), and bur buttercup
25 (*Ceratocephala testiculata*). This mix forms
26 a blanket of fine fuels over large areas of
27 open spaces on the Base. A few remnant
28 patches of sagebrush still exist and most have
29 a weedy understory. A list of flora at Mountain Home AFB is found in the INRMP (MHAFB
30 2012b).



Photo 3.6-1. Vegetation adjacent to Building 291 at Mountain Home AFB showing semi-improved grounds with short dry grasses and invasive species.

31 The vegetated areas of the Alert Complex are maintained as “semi-improved” or undeveloped
32 (unimproved) “natural areas” grounds maintenance categories. Semi-improved grounds (Photo
33 3.6-1) are where personnel perform periodic maintenance primarily for operational and aesthetic
34 reasons (such as erosion and dust control, weed control, bird control, and visual clear zones).
35 Undeveloped (unimproved) usually do not requiring maintenance more than once a year, if
36 maintenance occurs at all (MHAFB 2012b).

37 **3.6.2.2 Wildlife**

38 General Wildlife Species. Undeveloped natural areas are primarily found around the perimeter of
39 Mountain Home AFB, including the Alert Complex. Natural areas are dominated by cheat grass
40 (*Bromus tectorum*) with some areas containing sagebrush and cheat grass. The Alert Complex

1 provides habitat for birds and rodents, which may be potential prey for birds of prey. The area
2 would likely not be preferred by birds of prey due to the lack of high nesting sites and perches
3 (trees, fences, canyons) and bird airstrike management that uses frequent scare tactics (e.g., making
4 loud noise) to reduce the numbers of birds around the flight line. In addition, Mountain Home AFB
5 avoids attracting birds and producing habitat in areas such as the Alert Complex by controlling
6 high vegetation, such as high grass and shrubs.

7 Long-billed curlews can be found in the annual grasslands. Western burrowing owls nest in
8 burrows abandoned by other species, typically in areas dominated by short vegetation. Northern
9 harriers and rough-legged hawks are frequently observed foraging in the natural areas. Reptiles
10 that have been reported in these areas include gopher snakes, western rattle snakes, and sagebrush
11 lizards. Other reptile species likely exist in these areas. European starlings, common ravens,
12 western meadowlarks, mourning doves, and Piute ground squirrels are the most common species
13 in these areas. Black-tailed jack rabbits, American badgers, and coyotes are also common.

14 In general, the natural areas dominated by cheat grass provide habitat for fewer wildlife species
15 and are considered less desirable. Areas with sagebrush provide a richer species abundance,
16 habitat for sagebrush obligate species, and are very desirable for wildlife species conservation.
17 Unfortunately, sagebrush is regularly being lost on the base which makes it a priority for
18 conservation (MHAFB 2006a).

19 More details on general wildlife species and a list of fauna found at Mountain Home AFB can be
20 found in the 2012 INRMP and 2006 Mountain Home AFB Wildlife Data Summary Report
21 (MHAFB 2012b, MHAFB 2006a).

22 Pest Management Concerns. Rodent infestation is readily apparent in every aspect of the building
23 (i.e. droppings on the floor, under the floor boards, inside cabinets and in the restroom), which
24 presents a health concern for HPS when personnel enter the building or are exposed to
25 contaminants from the building. HPS is endemic to Idaho and is spread from wild rodents to
26 people, and in January 2001, a case of HPS was diagnosed in active duty male living on Mountain
27 Home AFB. The virus is found in saliva, urine, and feces. Breathing the virus is the most common
28 way for becoming infected; the virus can enter the air as mist from urine or saliva or as a dust from
29 feces (MHAFB 2012c).

30 Pest rodents are controlled with both mechanical and chemical methods at Mountain Home AFB.
31 Mechanical methods include glue boards and snap traps are usually the most effective devices for
32 controlling small numbers of rodents. Chemical control of pests, including rodents, is initiated
33 when non-chemical treatments fail to eliminated rodent infestations.

34 **3.6.2.3 Threatened, Endangered and other Protected Species**

35 There is one threatened species on Air Force land in Idaho. Slickspot peppergrass (hereinafter
36 abbreviated LEPA) was listed as threatened on December 7, 2009 (USFWS 2009). According to
37 the 2012 INRMP, LEPA is not known to occur on the Alert Complex. LEPA grows primarily
38 within bare areas that temporarily pool water known as slickspots, and the Alert Complex is mainly
39 comprised of pavement or dry grasslands and lacks this habitat.

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1
2 Species of concern generally include those federally listed as threatened or endangered, those listed
3 as species of greatest conservation need in Idaho by the Idaho Fish and Game (IDFG), DoD
4 Partners in Flight (DoD PIF 2010) birds of conservation concern, and/or the Bureau of Land
5 Management (BLM) Sensitive species (DoD PIF 2010, ICDC 2009). Laws protecting wildlife
6 include, but are not limited to, the Bald and Golden Eagle Protection Act of 1940, which protects
7 eagles, the Migratory Bird Treaty Act (MBTA) of 1918, which protects all migrant birds including
8 neo-tropical migrant birds, and the Endangered Species Act. Many birds that are protected by the
9 MBTA reside or migrate through the Base.

10 Species with special status found on Mountain Home AFB are listed in Table 3-5 below.

11 **Table 3-5 Species of Concern that Occur at Mountain Home AFB**

Common Name	Scientific Name	Species With Potential for Occurrence at Alert Complex
Sage sparrow	<i>Amphispiza belli</i>	
Golden Eagle	<i>Aquila chrysaetos</i>	
Western burrowing owl	<i>Athene cunicularia</i>	X
Bald Eagle	<i>Haliaeetus leucocephalus</i>	
Loggerhead shrike	<i>Lanius ludovicianus</i>	
California gull	<i>Larus californicus</i>	
Long-eared myotis	<i>Myotis evotis</i>	X
Yuma myotis	<i>Myotis yumanensis</i>	
Long-billed curlew	<i>Numenius americanus</i>	
Sage thrasher	<i>Oreoscoptes montanus</i>	X
American white pelican	<i>Pelecanus erythrorhynchos</i>	
White-faced ibis	<i>Plegadis chihi</i>	

12 **Sage sparrow** is a bird that prefers semi-open habitats with evenly spaced shrubs that are
13 approximately one to two meters tall (Chase and Carlson 2002). This species is commonly found
14 in hot, dry areas with mature sagebrush stands. While the bird may be found at the greater ROI of
15 Mountain Home AFB, the bird is not likely present at the Alert Complex, since the site is mainly
16 comprised of pavement or dry grasslands and lacks this shrub habitat.

17 **Golden eagles** are large raptors that are typically found in open country, in prairies, arctic and
18 alpine tundra, open wooded country, and barren areas, especially in hilly or mountainous regions.
19 While the bird may be found at the greater ROI of Mountain Home AFB year-round, the bird is
20 not likely present at the Alert Complex, since the site is mainly comprised of pavement or dry
21 grasslands and lacks the open sagebrush plain habitat with which this species is most often
22 associated.

23 **Western burrowing owl** inhabits dry, open grasslands, sometimes in areas of high human density,
24 such as in cities, golf courses, airports, and similar areas. This owl nests in burrows excavated by
25 mammals, usually badger (*Taxidea taxus*), ground squirrel, or coyote (*Canis latrans*).

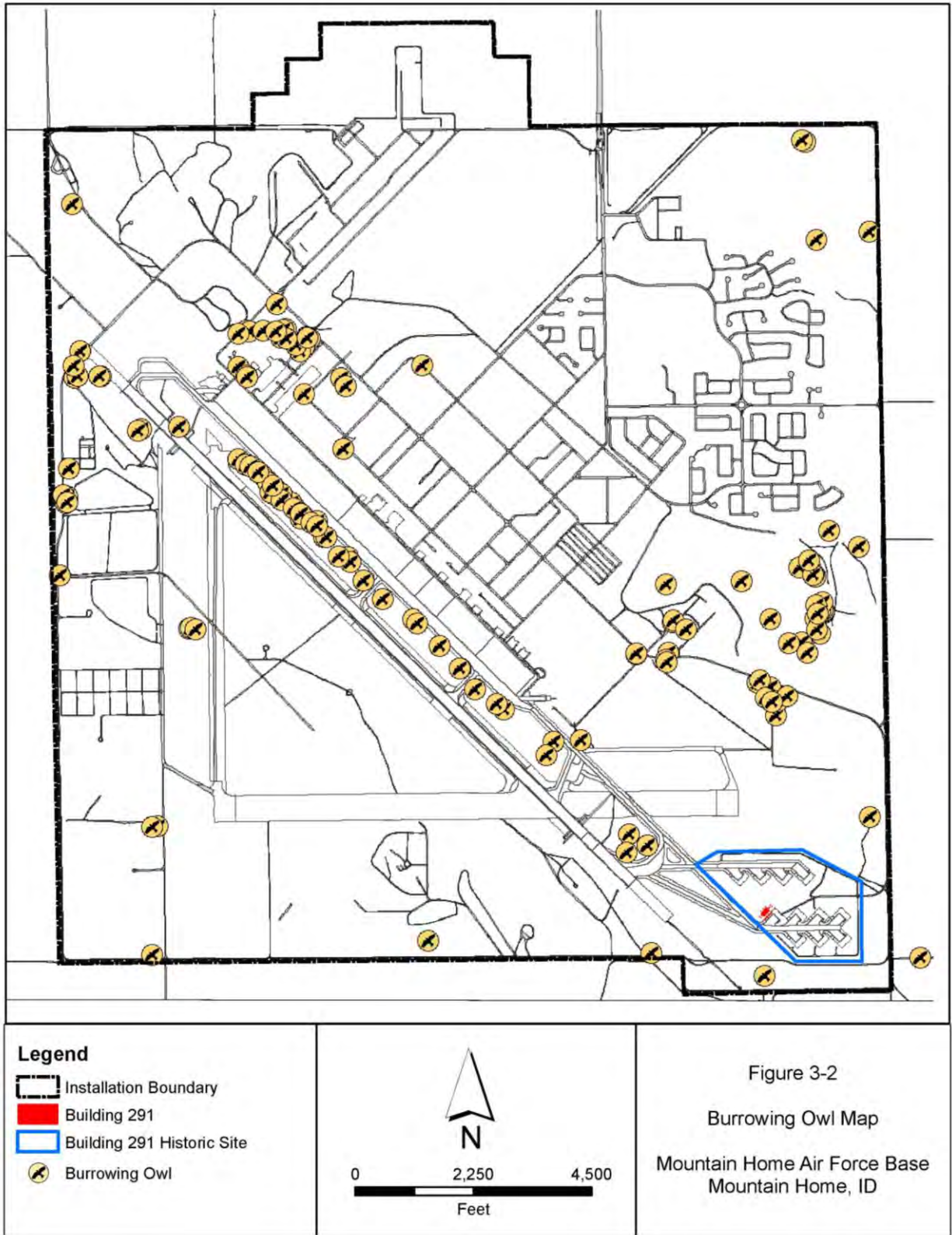
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1 Burrowing owls are a U.S. Fish and Wildlife Service (USFWS) Trust Species, a BLM Type 5
2 Sensitive Species, DoD PIF Priority Species, and an Idaho Protected Nongame Species (DoD PIF
3 2010, ICDC 2009; NatureServe 2015). Type 5 Sensitive Species under the BLM are species that
4 are currently on the watch list. Watch list species include species that may be added to the sensitive
5 species list depending on new information concerning threats, species' biology, or statewide
6 trends. The watch list includes species with insufficient data on population or habitat trends or the
7 threats are poorly understood.

8 Burrowing owls pose a small potential for bird airstrike hazard (BASH) because they fly at low
9 levels during foraging. This owl can hunt at all times of the day and night; however, most prey is
10 captured at dawn and dusk. They frequently hover a short distance above ground, foraging for
11 insects, amphibians, small mammals, and birds. Burrowing owls acquire abandoned badger or
12 rodent burrows within their habitat for nesting and roosting, and prefer to nest in open grassland
13 areas without shrubs.

14 The natural grassland along the edge of the Alert Complex is dry, open grassland commonly
15 inhabited by burrowing mammals, such as ground squirrels, rodents, black-tailed jackrabbits, and
16 badgers, whose abandoned burrows can be taken over by burrowing owls (MHAFB 2012b). Since
17 burrowing owls are not deterred by human disturbance, the vegetated portions of the Alert
18 Complex can likely be considered burrowing owl habitat. Although maps in the Mountain Home
19 AFB Wildlife Data Summary Report did locate a few burrows in the greater ROI of Mountain
20 Home AFB, results of a more recent 2015 survey of Mountain Home AFB found numerous owl
21 burrows with several within 1,000 feet of the Alert Complex (MHAFB 2006a, MHAFB 2015g).
22 However, none have been observed on the site. Locations of burrowing owl burrows from the
23 2015 survey of Mountain Home AFB are shown in Figure 3-2.

24 **Bald eagles** winter in deciduous and coniferous trees or other sheltered sites. Wintering areas are
25 commonly associated with open water, though in some areas these eagles use habitats with little
26 or no open water if other food resources are readily available. The species was observed for the
27 first time on Mountain Home AFB in March 2010 on the golf course at Mountain Home AFB,
28 presumably hunting ground squirrels. While the bird may be found at the greater ROI of Mountain
29 Home AFB, the bird is not likely present at the Alert Complex, although suitable food sources
30 (burrowing rodents) may be present, since the site is at the end of a runway with frequent human
31 disturbance and contains no trees or open water. Maps in the Mountain Home AFB Wildlife Data
32 Summary Report did not show any bald eagle habitat on base (MHAFB 2006a).



1
2

Figure 3-2 Burrowing Owl Map

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1 **Loggerhead shrike** is a robin-sized bird that prefers habitats consisting of grasslands and open,
2 agricultural areas characterized by short vegetation and scattered trees, shrubs, or hedgerows (Bent
3 1950; Evers 1994). Habitats of this type provide for nesting cover as well as for hunting and
4 lookout perches. Loggerhead shrikes are a USFWS Trust Species, DoD PIF Priority Species, and
5 a Special Status Species in Owyhee and Elmore Counties, Idaho (DoD PIF 2010, ICDC 2009,
6 NatureServe 2015). They are found in the greater Mountain Home AFB ROI, but have not been
7 recorded at the Alert Complex (MHAFB 2006a). They are seldom seen in habitats without
8 sagebrush or lookout perches; therefore, the bird is not likely present at the Alert Complex, since
9 the site is mainly comprised lacks this shrub habitat.

10 **California gull** is an inland breeding bird that inhabits lakes, farms, and marshes during its
11 breeding season. This bird forages along lakes, bogs, farm fields, lawns, pastures, sagebrush,
12 garbage dumps, feedlots, parking lots, ocean beaches, and in the open ocean. The California gull
13 is a USFWS Trust Species and an Idaho Protected Nongame Species (ICDC 2009, NatureServe
14 2015). While the bird may be found at the greater ROI of Mountain Home AFB associated with
15 the landfill, the bird is not likely present at the Alert Complex, since the site is mainly comprised
16 of pavement or dry grasslands and lacks suitable habitat (MHAFB 2006a).

17 **Long-eared myotis** is a bat that is found in a wide range of habitats, often associated with forests.
18 The long-eared myotis is a Special Status Species in Owyhee County, Idaho (ICDC 2009). This
19 species inhabits coniferous forests and woodlands, including areas containing ponderosa pine,
20 juniper, and spruce-fir (Manning and Jones 1989). This species may roost in buildings and trees
21 within the base and is likely to forage around lights. A long-eared myotis was found in Building
22 1100 at Mountain Home AFB behind some equipment during the winter of 2008 (MHAFB 2012b).
23 Given that the building at the Alert Complex has received infrequent use by humans since 2007
24 and is infested by rodents, the long-eared myotis could potentially use the building as a roost,
25 although no previous sightings at the Alert Complex have been reported.

26 **Yuma myotis** is a bat that is a Special Status Species in both Elmore and Owyhee Counties, Idaho
27 (ICDC 2009). A desiccated Yuma myotis carcass was found in Building 1296 on Mountain Home
28 AFB within the vicinity of non-jurisdictional wetlands (MHAFB 2006a, MHAFB 2012b). This
29 species occurs in a variety of western lowland habitats in areas of abundant water. In these areas,
30 the bat forages for insects just above the surface of slack water. Yuma myotis is an important
31 riparian species that roosts within crevices in cliffs, old buildings, mines, caves, bridges, and
32 abandoned cliff swallow nests. While the bird may be found at the greater ROI of Mountain Home
33 AFB, the bat is not likely present at the Alert Complex, since the site is mainly comprised of
34 pavement or dry grasslands and lacks riparian habitat.

35 **Long-billed curlew** inhabits prairies, open shrub-steppe, and grassy wet meadows. The long-
36 billed curlew is a large “shorebird” with a very long, curved bill. It is cinnamon brown on top and
37 buff colored on its underside. In Idaho, this species prefers open, recently grazed grasslands
38 containing short vegetation for nesting. Long-billed curlew is a USFWS Trust Species, a BLM
39 Type 5 Sensitive Species, DoD PIF Priority Species, and an Idaho Protected Non-Game species
40 (DoD PIF 2010, ICDC 2009, NatureServe, 2015). These birds breed on the dry, native grasslands
41 of the arid West, where they use their long, curved bills to feed on grasshoppers, beetles, and

1 caterpillars. Although normally associated with wet areas, during breeding these birds do breed
2 feed on the insects in short grassland vegetation, which is typical of the undeveloped natural areas
3 around the edge of Mountain Home AFB and the Alert Complex. The bird has been found in the
4 greater ROI of Mountain Home AFB, and the entire base is predicted habitat for the bird; therefore,
5 it is possible that the long-billed curlew might use the non-paved portions dry grasslands of the
6 Alert Complex (MHAFB 2006a).

7 **Sage thrasher** is a medium-sized passerine bird that highly depends on healthy shrub-steppe
8 communities comprised of tall, dense sagebrush (Rich 1980). In Idaho, sage thrashers use sites
9 that are characterized with high sagebrush cover within large blocks of shrub-steppe (Knick and
10 Rotenberry 1995). Sage thrashers are a USFWS Trust Species, DoD PIF Priority Species, and a
11 Special Status Species in Owyhee County, Idaho (DoD PIF 2010, ICDC 2009, NatureServe 2015).
12 These birds are found on MHAFB and have been recorded in the southeast corner of the base near
13 the Alert Complex (MHAFB 2006a). Although the Alert Complex does not possess the preferred
14 sagebrush habitat for these birds it is possible that they could stop at the area on their way to more
15 suitable habitat in adjacent natural areas.

16 **American white pelicans** are large, white bird that have black wing tips and a long, wide, orange
17 bill. In Idaho, this species is found on large inland reservoirs and island nests. The American white
18 pelican is a USFWS Trust Species, a Type 2 BLM Sensitive Species, and an Idaho Protected
19 Nongame Species (ICDC 2009, NatureServe 2015). While the bird may be found at the greater
20 ROI of Mountain Home AFB associated with water features on the golf course, the bird is not
21 likely present at the Alert Complex, since the site is mainly comprised of pavement or dry
22 grasslands and lacks suitable habitat (MHAFB 2006a).

23 **White-faced ibis** is a wading bird that breeds colonially in marshes, usually nesting in bushes or
24 low trees (Sibley 2000). The white-faced ibis is an USFWS Trust Species, a Type 4 BLM Sensitive
25 Species, and an Idaho Protected Nongame Species (ICDC 2009, NatureServe 2015). The species
26 was recorded in the greater Mountain Home AFB ROI in 2010 when four white-faced ibis landed
27 near the golf course pond, but immediately left due to the presence of golfers (MHAFB 2006a).
28 White-faced ibis are not typical for the habitat present on Mountain Home AFB, and it is unlikely
29 that the birds would use the Alert Complex, since the site is mainly comprised of pavement or dry
30 grasslands and lacks suitable habitat.

31 **3.7 CULTURAL RESOURCES**

32 **3.7.1 Definition of the Resource**

33 Cultural resources are prehistoric and historic sites, buildings, districts, or objects that are
34 important to a culture or community. Cultural resources are generally divided into three categories:
35 archaeological resources, architectural resources, and traditional cultural resources.

36 Archaeological resources occur in places where people altered the ground surface or left artifacts
37 or other physical remains (e.g., arrowheads, glass bottles, pottery). Archaeological resources can
38 be classified as either sites or isolates. Isolates generally cover a small area and often contain only

1 one or two artifacts, while sites are usually larger in size, contain more artifacts, and sometimes
2 contain features or structures. Archaeological resources can be either prehistoric or historic.

3 Architectural resources are standing buildings, dams, canals, bridges, windmills, oil wells, and
4 other such structures. They are generally historic in affiliation.

5 Traditional cultural resources are resources associated with the cultural practices or beliefs of a
6 living community that link the community to its past and help maintain its cultural identity. Most
7 traditional cultural resources in Idaho are associated with American Indians. Traditional cultural
8 resources can include archaeological resources, locations of prehistoric or historic events, sacred
9 areas, sources of raw materials used in the manufacture of tools and/or sacred objects, certain
10 plants, or traditional hunting and gathering areas.

11 Under the National Historic Preservation Act (NHPA) and various federal regulations, only
12 significant cultural resources are considered when assessing the possible impacts of a federal
13 undertaking or action. Significant archaeological, architectural, and traditional cultural resources
14 include those that are eligible or recommended eligible for inclusion on the NRHP. The
15 significance of archaeological and architectural resources is usually determined by using specific
16 criteria (listed in 36 CFR 60.4), including: association with important events, association with a
17 famous individual, embodiment of the characteristics of a period, and ability to contribute to
18 scientific research. Cultural resources are generally at least 50 years old to be considered eligible
19 for listing in the NRHP. However, more recent resources, such as Cold War-era buildings, may
20 warrant protection if they manifest “exceptional significance.” Traditional cultural resources can
21 be evaluated for National Register-eligibility, as well. However, even if a traditional cultural
22 resource is determined not eligible to the National Register, it may still be significant to a particular
23 American Indian tribe. In this case, such resources may be protected under the Native American
24 Graves Protection and Repatriation Act, the American Indian Religious Freedom Act, and EO
25 13007, which address Indian sacred sites. The significance of American Indian traditional cultural
26 resources is determined by consulting with the appropriate American Indian tribe(s).

27 **3.7.2 Existing Conditions**

28 For this EA the affected environment includes the Alert Complex, which consists of Building 291
29 and its associated 103 acres.

30 **3.7.2.1 Mountain Home AFB Archaeological Resources**

31 The Alert Complex was surveyed in 1990. No prehistoric or historic archaeological NRHP-
32 eligible sites were recorded within this area (MHAFB 2011b).

33 **3.7.2.2 Historic Resources**

34 The Alert Complex was previously surveyed in 1995 for Cold War era facilities located at MHAFB
35 (MHAFB 2011b). The Facility was then recorded in 2006 as part of the historic building inventory
36 and evaluations project (MHAFB 2006b). During this survey, 97 buildings were surveyed and
37 evaluated meeting the requirements of Section 110 of the NHPA (MHAFB 2006b). In 2009, the
38 Alert Complex was included in the Cold War-era historic property survey (MHAFB 2009). A

1 Historic American Building Survey (HABS) of the Alert Complex was completed in 2013
2 (MHAFB 2013) per the goals outlined in the MHAFB Integrated Cultural Resources Management
3 Plan (ICRMP) (2011) regarding NRHP evaluations of historic buildings. The HABS
4 documentation included black and white photographs, historical information, descriptive data of
5 the facility, and drawings (MHAFB 2013).

6 **History of Alert Complex**

7 Under the SAC during the Cold War, the
8 mission was to deter the Soviet Union
9 through sustainability, durability, and
10 survivability. Beginning in 1951, SAC
11 began to organize their installations in
12 concentric circles based on their distance
13 from Moscow. In 1956, SAC activated
14 numerous 24-hour bomber alert facilities
15 that included both permanent and
16 temporary buildings along primary
17 runways (MHAFB 2012d).

18 A total of 66 alert crew facilities were
19 constructed including, 150-man, 100-
20 man, and 70-man facilities. Eleven of
21 these 66 were the 150-man facilities
22 planned for installations in Georgia,
23 Idaho, Indiana, Kansas, Missouri,
24 Montana, Nebraska, New Hampshire, New York, Ohio, and Wisconsin. However, the alert facility
25 planned for Wisconsin was never constructed (MHAFB 2012d).



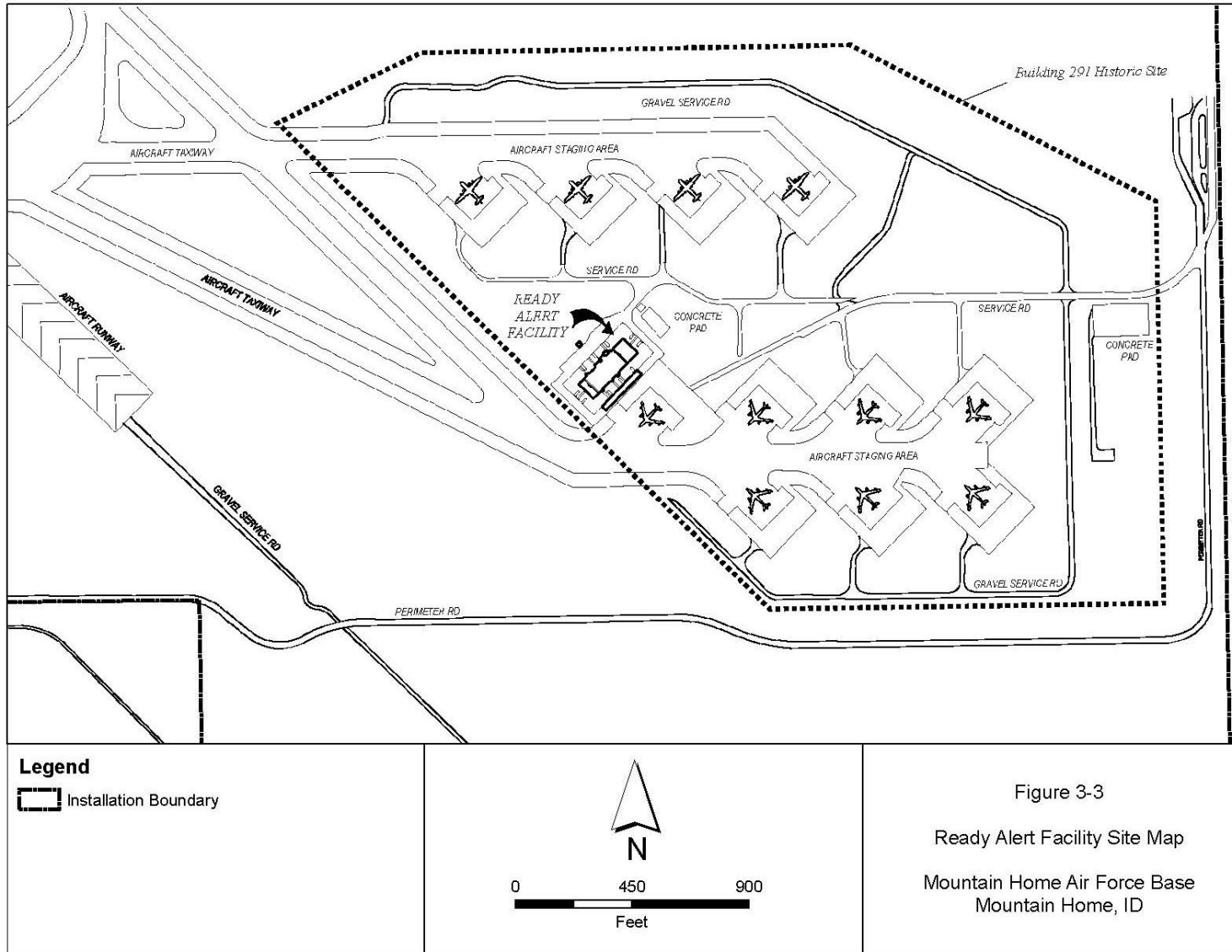
Photo 3.7-1. General Overview of Building 291,
Facing North (Taken from MHAFB 2013).

26 The Alert Complex includes approximately 103 acres and is comprised of one contributing
27 building and four contributing structures. The contributing building is the alert crew building
28 (Building 291) (Photo 3.7-1) also known as the “molehole”, two Christmas-tree alert aprons
29 (Buildings 31020 and 31021), and the road system and security fence (Figure 3-3). There are also
30 four non-contributing buildings within the Alert Facility including a 1969 traffic check house,
31 1985 carport, 1980s era tennis pavilion, and a post-1987 metal building. One non-contributing
32 structure, 1970s era tennis court, is also present within the Alert Facility. These original resources
33 have survived and represent the Cold War-era mission of the U.S. Department of the Air Force
34 under the SAC between 1957 and 1966 (MHAFB 2012d).

35 Building 291 at Mountain Home AFB was constructed between 1958 and 1959 as a permanent
36 alert crew quarters that could accommodate 150 airmen. The building was used to support three
37 man flight crews for the B-47. Building 291 had two levels and was self-sustaining with its own

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2

Figure 3-3 Ready Alert Facility Site Map



Photo 3.7-2. View of the Exterior of the Ramped Entrances.

utilities (MHAFB 2013). The first story was subterranean with access through eight ramped entrances located on all four sides of the structure which lead down to the first story (Photos 3.7-2 and 3.7-3). This type of alert crew quarter was designed by architect, Leo A. Daly in 1958, as part of the permanent readiness alert facilities. A sloped exterior earthen berm was also constructed to hide the subterranean level. Because these quarters were semi-subterranean, they were known as “moleholes” (MHAFB 2011b). The subterranean level consisted of living quarters and two sets of bathrooms. The upper level included operation support offices, a briefing room, training and

18

19 operations rooms, a cafeteria, lounge, library, and recreational space. More than one flight crew
20 was present during each shift and typically two men shared one room. Members of the same flight
21 crew were assigned to a group of rooms adjacent to one another. The airmen were on duty for 24
22 hours each day and always wearing their flight suits in case the alert was signaled (MHAFB 2013).

23 Buildings 31020 and 31021, the two
24 Christmas tree aprons, were also
25 constructed during the same time as
26 Building 291. These alert facilities
27 needed to achieve rapid response,
28 therefore, the taxiways were positioned
29 at 45 degree angles towards the
30 primary runway. SAC also positioned
31 the aprons at 45 degree angles to the
32 taxiways. The aircraft parking stubs
33 were placed at 45 degree angles to the
34 apron which created a herringbone
35 pattern, also known as Christmas trees.
36 This configuration increased the
37 number of bomber aircraft on the alert
38 apron and they could be in flight within
39 one minute of each other. This
40 arrangement also reduced the total
41 takeoff time from one hour to fifteen minutes (MHAFB 2012d).



Photo 3.7-3. View of the Interior of the Ramped Entrances.

42 Building 291 has remained intact through the years with minor alterations and additions. In 1958,
43 exhaust grilles and drains were added to the interior; rotating beacons, door frames, doors, and a
44 circulating pump were installed in 1961 as well as the flood lights were removed and the security

1 fence and lights were relocated that same year. In 1966, a counter was installed in flight planning,
2 new partitions were added to subdivide the dining rooms, and eleven emergency lights were
3 mounted. The heat plant was upgraded to a 5,040 gallon tank in 1969. That same year, numerous
4 updates to the electrical system were made and the traffic check house (Building 289) was
5 constructed to support SAC satellite activity. In 1970, a platform was installed adjacent to the
6 building for a high-gain log-periodic antennae. The dormitory capacity was reduced to 40 from
7 150 in 1971. The living quarters and latrines were modified in 1973 and a few of the subterranean
8 interior doors were sealed in 1974. In 1977, the exhaust grilles were moved, an interior wall was
9 removed, and a hall along with three rooms were modified. The kitchen was removed in 1978, the
10 air conditioning unit was replaced with a 55-ton York unit in 1980, and a platform was installed
11 in a room within the subterranean level in 1984. In 1987, the fire detection system was automated
12 and a separate underground irrigation sprinkler system was installed. During this year, an interior
13 wall was constructed to separate the latrine from the laundry room. The HVAC systems were
14 replaced in 1989. The last renovations occurred in 2004 when a pivoting surveillance camera was
15 placed at the northeast corner of the chimney stack (MHAFB 2013).

16 The Alert Complex was used for Professional Military Education between 1976 and 1994; the
17 following three years (1994-1997) the Alert Complex was vacant. Between 1997 and 2007, the
18 Alert Complex was used quarterly for FW training exercises. The Alert Complex has been vacant
19 since 2007 (Jackson 2016).

20 **National Register Eligibility**

21 Of the actual ten 150-man alert crew facilities that were constructed, Mountain Home AFB's
22 bomber facility appears to be the most intact. Three of these facilities have been demolished and
23 the other six have been greatly altered both on the interior and exterior (MHAFB 2012d).

24 The Alert Complex represents the best extant example of its type on a national level. The five
25 contributing resources retain their integrity of location, setting, design, materials, workmanship,
26 feeling, and association to a very high level. The resources associated with the Alert Complex
27 have remained in their original locations. The view shed has not been altered with new
28 construction and the facility was constructed near the end of the primary runway. The original
29 taxiways, aprons, and parking stubs are present along with the original roadway system and
30 security fence. The parking stubs are situated at 45-degree angles creating a herringbone or
31 Christmas-tree pattern. Building 291 is located in its original location and retains its original
32 footprint. The at-grade level has remained windowless and the vestibules, tunnels, and ramps
33 remain *in situ*. The roof configuration has remained intact and in-kind materials have been used to
34 repair the building (MHAFB 2012d). Because of these, the Alert Complex is eligible for the
35 National Register under Criterion A for its contributions to the Cold War air combat training and
36 defense mission under SAC. It is also eligible under Criteria C for the innovative design of the
37 alert crew building and the Christmas-tree aprons. The Alert Complex is more than 50 years old,
38 however, its period of significance extends to 1966 with SAC's association to the resources, which
39 meet Criterion Consideration G, as exceptionally significant (MHAFB 2012d). The Idaho SHPO
40 concurred with Mountain Home AFB's determination of eligibility in 2004 (Neitzel 2004).

41 In the fall of 2013, MHAFB and the Idaho SHPO in coordination with the ACHP, began
42 developing a Programmatic Agreement regarding Building 291 (included as Appendix A). The

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1 primary goal of the Programmatic Agreement was to outline steps that Mountain Home AFB
2 would take to avoid the adverse effects of the on-going deterioration of the Alert Complex due to
3 rodents and vandalism (ISHS 2014). The Programmatic Agreement was signed in June 2015
4 between the Mountain Home AFB, Idaho SHPO, and ACHP regarding the long term management
5 of the Alert Complex (MHAFB 2015b).

6 The Programmatic Agreement stipulated the plans to carry out the treatment plan for cleanup and
7 stabilization of Building 291.

8 Mountain Home AFB completed treatments in the Programmatic Agreement, including:

- 9 • Stabilizing to correct deficiencies including pest control, securing the exterior envelope
10 from moisture, and stabilizing the structure where needed.
- 11 • Maintaining the exterior berm.
- 12 • Securing the building from vandals and break-ins including securing the roof access
13 panels with locks and boarding up egress tunnel windows to protect the corrugated
14 material.
- 15 • Maintaining the interior ventilation per the Secretary of Interior Standards.
- 16 • Developing a routine maintenance and law enforcement monitoring plans. These were
17 documented in the annual report to the Idaho SHPO.

18 Mountain Home AFB and the Idaho SHPO also have a Programmatic Agreement regarding the
19 management of all historic properties on the base that was signed in June 2015 (MHAFB 2015g).
20 This Programmatic Agreement covers typical and routine activities that may occur on historic
21 properties located at Mountain Home AFB. According to this Programmatic Agreement the
22 following routine activities do not pose a threat to historic properties:

- 23 • Utility and telecommunication infrastructure construction, maintenance, upgrade, and
24 demolition
- 25 • Minor repairs such as interior and exterior painting, replacement of mirrors, and
26 replacement of materials using the same composition and application
- 27 • Minor modifications to interior spaces that do not include portions of the building that
28 contribute to the historical integrity or uniqueness to buildings considered eligible to the
29 NRHP
- 30 • Modifications to heating, ventilating, air conditioning, plumbing or electrical systems
31 limited to mechanical spaces, concealed ducts, plenums, or shaft space.
- 32 • Installation of security devices including dead bolts, door locks, window latches, door
33 peepholes, and electronic security systems
- 34 • Installation of fire, smoke, or carbon monoxide detectors as long as their installation does
35 not permanently damage a historic feature or surface treatment

36 Proposals for these types of activities may be screened by the base Cultural Resources Manager.
37 If the Cultural Resources Manager determines that the activities would not have a potential effect
38 on a historic property, then no consultation under Section 106 with the SHPO is required.

1 **3.8 SAFETY AND OCCUPATIONAL HEALTH**

2 **3.8.1 Definition of the Resource**

3 A safe environment is one in which there is no, or an optimally reduced, potential for death, serious
4 bodily injury or illness, or property damage. The elements of an accident-prone environment
5 include the presence of hazards and an exposed population at risk of encountering a hazard.
6 Numerous approaches are available to manage the operational environment to improve safety,
7 including reducing the magnitude of a hazard through engineering and administrative controls as
8 well as proper use of personal protective equipment (PPE).

9 The USAF categorizes incidents that occur while on the job as one of five classes. These
10 classifications begin with the most severe and conclude with general mishaps that are used to help
11 identify prevention methods. Within the fifth classification of incidents the Air Force also has
12 identified three other sub classifications, none of which were recorded at the 341 TRS. The USAF
13 classification according to the Department of the Air Forces Standard No. A2, Mishap
14 Investigation and Reporting are as follows:

- 15 • Class A – Total cost of \$2,000,000 or more for property damage, or a permanent total
16 disability or fatality. Property damage includes all government equipment, vehicles, or
17 munitions.
- 18 • Class B – Total cost of \$500,000 or more but less than \$2,000,000 for property damage.
19 Permanent partial disability or hospitalization of three or more people.
- 20 • Class C – Total cost of \$50,000 or more but less than \$500,000 for property damage. Minor
21 injury, minor occupational illness. An injury resulting in a lost workday case, or an
22 occupational illness that causes loss of time from work at any time. An occupational injury
23 or illness resulting in permanent change of job.
- 24 • Class D – Any non-fatal injury or occupational illness that does not meet the definition of
25 lost workdays (lost time). These are cases where, because of injury or occupational illness,
26 the employee only works partial days, has restricted duties, or is transferred to another job,
27 lost consciousness, required medical treatment greater than first aid, or incurred a
28 significant injury or illness diagnosed by a physician or other health care professional.
- 29 • Class E Events – These occurrences do not meet reportable mishap classification criteria,
30 but are deemed important to investigate/report for mishap prevention. Class E reports
31 provide an expeditious way to disseminate valuable mishap prevention information. These
32 events also include the following:
 - 33 ○ Property Damage Events – Mishaps that do not have an injury or illness and the direct
34 cost totals \$2,000 or more but less than \$50,000.
 - 35 ○ High Accident Potential (HAP) Events – Any hazardous occurrence that has a high
36 potential for becoming a mishap.
 - 37 ○ Laser or Radio Frequency (RFR) incidents or accidents. All incidents or accidents
38 involving alleged or suspected exposures of laser radiation need to be investigated
39 according to Air Force Office of Safety and Health (AFOSH) Std 48-139 Laser
40 Radiation Protection Program Paragraph 2.6, immediately reported via the Laser Injury

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1 Hotline (1-800-473-3549 or DSN 240-4784) and reported in Air Force Safety
2 Automated System (AFSAS). Similarly, alleged or suspected RFR exposures in excess
3 of exposure limits will be investigated and reported as prescribed in AFOSH 48-9, and
4 reported in AFSAS (USAF 2010e).

5 The primary safety categories discussed in this analysis include Ground, Aircraft and Traffic, and
6 Construction Safety.

7 Ground Safety. Both natural and man-made environmental hazards may be present at Mountain
8 Home AFB at any time due to the varied activities that take place on the installation. Naturally-
9 occurring potential health and safety hazards include insects, snakes, fire, and climactic conditions.
10 Potential man made health and safety hazards include aircraft noise exposure, fire/explosions,
11 ground traffic (i.e. driving to get to the work site) and general injuries due to motor vehicle
12 accidents. Traffic safety is discussed further below. Potential explosion sites at Air Force Bases
13 are designated with QD arcs which indicate the potential damage or injury radius of explosions
14 from that site.

15 Aircraft and Ground Traffic Safety. Clear Zones and APZs are areas off the end of DoD runways
16 that were developed based on past Air Force aircraft accidents and reflect land areas at greater risk
17 of an aircraft accident. The Clear Zone and APZs represent areas where an accident is most likely
18 to occur, if one were to occur. The Clear Zone begins at the end of the runway and is the area of
19 highest accident potential. The two APZs lie beyond the Clear Zone and have increasingly less
20 accident potential, but still enough to warrant land use restrictions.

21 Mishaps related to ground traffic result from the use of roads and public thoroughfares and may
22 increase during periods of heavy traffic or traffic delays due to congestion. Additionally, higher
23 speeds tend to increase the severity of accidents that do occur.

24 Construction Safety. Construction site safety is largely a matter of adherence to regulatory
25 requirements imposed for the benefit of employees, and implementation of operational practices
26 that reduce risk of illness, injury, death, and property damage. The health and safety of
27 construction contractors are safeguarded by OSHA regulations. These standards specify the
28 amount and type of training required for industrial workers, the use of protective equipment and
29 clothing, engineering controls, and maximum exposure limits for workplace stressors.
30 Construction related hazards that are typical for construction activities include biological hazards,
31 slips trips and falls, use of hand and power tools, repetitive motion injuries, proper lifting and
32 material handling, heavy equipment, heat or/and cold stress, noise exposure, proper PPE, and using
33 the proper tool for the job. Additionally, contractors must maintain cleanliness at the construction
34 site. Construction debris which can be blown around a construction site can also pose a hazard to
35 those working and driving in the area of the construction.

36 **3.8.2 Existing Conditions**

37 Ground Safety. The Wing Safety office collects safety-related mishap data for mishap prevention
38 purposes. This information is not released to the public; therefore, it will not be included in this
39 EA. The entire 103-acre Alert Complex site is located within QD arcs due to the presence of

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1 LOLAs. Additionally, rodent droppings, potentially containing HPS, have been identified at
2 Building 291.

3 Aircraft and Ground Traffic Safety. An 8.9-acre portion of the Alert Complex's 103 acres is
4 located within the Clear Zone, while a 2.12-acre portion falls within APZ I. The current land use
5 classification of the area within the Clear Zone is Open Buffer Zone and Air Operations and
6 Maintenance which are considered compatible land uses with the airfield. The majority of
7 Building 291 falls within the Clear Zone and is not considered compatible; however, Building 291
8 has received an exemption because the facility was constructed under a previous standard. The
9 land use within APZ I is classified as Air Operations and Maintenance which is considered
10 compatible with the APZ.

11 Traffic at Mountain Home AFB is highest during mornings and evenings as Base employees and
12 military personnel travel to and from work. However, traffic at the Alert Complex is minimal due
13 to the restricted nature of the site. Access to the site is generally prevented through the use of
14 gates.

15 Construction Safety. All contractors at Mountain Home AFB who are conducting construction or
16 demolition activities must follow all ground safety regulations and must perform their duties in a
17 way that protects the health and safety of their co-workers, military personnel, and civilians.
18 Contractors must be aware of site conditions prior to and during construction activities and must
19 manage hazards as they are identified, to include identifying appropriate personal protective
20 equipment for construction workers encountering the hazard. Within Building 291, the Feasibility
21 Study identified the presence of ACM, LBP, mercury, and PCBs as described in Section 3.5,
22 Hazardous Materials and Wastes. Additionally, rodent droppings are visible within the building
23 which could increase the potential for construction worker's exposure to HPS.

24 **3.9 UTILITIES AND INFRASTRUCTURE**

25 **3.9.1 Definition of the Resource**

26 In 2013 a Feasibility Study was conducted at Building 291 which identified the existing conditions
27 of various utility systems present at the facility (included as Appendix B). These systems included
28 electrical/fire alarm, plumbing, and mechanical systems. The findings of the Feasibility Study are
29 summarized below. Also, in 2014, the installation's stormwater system was evaluated and the
30 conditions of the system at the Alert Complex are discussed below. Information related to solid
31 waste management practices was collected from the 2014 Solid Waste Management Plan and
32 current disposal and recycling rates were obtained from the Base. Information presented related to
33 transportation includes major and minor roadways, the security gates, and parking areas on Alert
34 Complex.

1 **3.9.2 Existing Conditions**

2 **3.9.2.1 Electrical/Fire Alarm Systems**

3 Building 291 is served by a simple radial power distribution system. An outdoor, oil-filled, pad-
4 mounted transformer provides power to the building. This transformer appeared to be recently
5 installed and in working condition. The Feasibility Study rated its condition as average and stated
6 that it may continue serving the building.

7 There are two installed service disconnects – one for the outside chiller unit and one, seven-
8 breaker, main distribution panelboard in the basement which serves the remaining loads. Another
9 distribution panelboard serves approximately 12 branch circuit panelboards which are located
10 throughout the building corridors in recessed areas along the walls. The main switchgear, controls,
11 disconnect switches, and distribution and branch circuit panelboards appear to have been installed
12 in the 1950s and are generally at the end of their life. Some of the breakers show signs of water
13 intrusion damage and are recommended for removal. Associated electrical wiring and conduits
14 could be recycled once removed. Branch panel recessed steel boxes could be reused in future
15 renovations of the electrical system. The distribution, power, and branch circuit panelboards were
16 rated as being in poor to average condition in the 2013 Feasibility Study (ACC 2013).

17 Lighting and emergency lighting systems in the building appear to be of 1970s and 1960s-70s
18 vintage, respectively. Generally they are all considered to be in end of life condition. The lighting
19 fixtures are damaged or worn to the point where demolition is the recommended course of action.
20 The fixture’s steel housings could be recycled. The lighting systems were given a condition rating
21 of poor to average (ACC 2013).

22 The Building’s fire alarm system appears to have been installed in the 1990s and is controlled by
23 a four-zone panel. At the time of the inspection, the panel appeared to be in working condition;
24 however, that could not be confirmed. It could be re-used for limited fire protection if the building
25 were to undergo selective demolition. However, a new addressable fire alarm/mass notification
26 system (with smoke detectors and visual devices and speakers) should be installed if future
27 building occupation is planned. The fire system appears to have been monitored by the Base Fire
28 Department. Heat detectors are located in most of the corridors and many of the rooms; however,
29 they are in end of life condition and should be replaced. The installed radio transmitter could be
30 re-used onsite or relocated and re-used at another location. The fire alarm system was rated as
31 being in poor to average condition (ACC 2013).

32 **3.9.2.2 Plumbing Systems**

33 Plumbing at Building 291 was installed primarily to provide domestic hot and cold water to
34 restroom and kitchen areas, but also provided water for various wall hydrants located on the
35 exterior of the building. The plumbing system used a 4-inch water main to supply water to the
36 building and an 8-inch sewer line to remove sewage from the building. A 650-gallon hot water
37 heater (heated using a fuel oil system) provided domestic hot water to the facility via a hot water
38 pump. The current hot water heater shows signs of bacterial contamination due to the lack of
39 maintenance, usage, and surrounding conditions. Attempts to disinfect the tank have the potential

1 of compromising the structural integrity of the tank and the potable water system. Therefore, the
2 water heater has no future usefulness (ACC 2013).

3 Copper and galvanized piping were installed for the water system and lead-based solder was used
4 during installation. According to the Feasibility Study, the domestic water pipes have no future
5 life usefulness and are considered to be in failed condition.

6 Plumbing fixtures in Building 291 appear to remain mounted in their original locations. Restrooms
7 are heavily infested with rodent droppings and evidence indicates that rodents may be accessing
8 the building through sewer lines. Plumbing fixtures do not comply with present-day Americans
9 with Disabilities Act standards. Plumbing fixtures were rated as being in poor to average condition
10 (ACC 2013).

11 Vent and waste piping used in the plumbing system includes cast iron piping with lead oakum
12 joints. When this piping system is disturbed, it is highly susceptible to leaks. Lead piping is not
13 prohibited for use under current plumbing codes as long as it is used for waste purposes and is
14 located within concrete which is not subject to vibration. The Feasibility Study indicates that the
15 waste piping in the slab can be utilized in the future after the lines have been purged and plugged;
16 however, vent piping should be removed and replaced. The overall condition rating for piping is
17 failed to poor (ACC 2013).

18 **3.9.2.3 Mechanical Systems**

19 Mechanical systems within Building 291 were designed to be self-sustaining. The Building has
20 historically used a steam circulation system for heating. A fuel oil system produced heat in three
21 zones of the building, while air was circulated through the building by means of two air handling
22 units, fan coil units, and insulated ductwork. In the 1960s a boiler was installed in the basement,
23 but has since been decommissioned. In the 1990s, the heating system was renovated and two oil-
24 fired boilers were added. When the building was no longer in use, water was left in the system
25 which led to system corrosion and rust. The heating system is considered in poor condition (ACC
26 2013).

27 The air handling units, fan coil units, and insulated ductwork show excessive particulate debris
28 and microbiological growth contamination due to mold and rodent droppings. Insulation within
29 the supply system has also deteriorated and corrosion was found on the air handling and fan coil
30 units. These systems were rated to be in a failed condition (ACC 2013).

31 The building uses a chilled water system for cooling and it is unknown when the system was
32 installed; however, it shows signs of deterioration. Physical damage includes missing and bare
33 wiring, deteriorating insulation, corrosion, microbiological growth from rodent droppings, and
34 rust. Pipe corrosion can result in air and moisture leaking into the system. Currently, the system
35 is not operating at peak efficiency due to the system damage and is considered to be in poor
36 condition.

1 Exhaust fan systems are found throughout the facility and were used for restroom, kitchen, and
2 mechanical room exhaust. Fan equipment showed deterioration from rust and lack of regular
3 maintenance. The fan system is in poor condition (ACC 2013).

4 **3.9.2.4 Stormwater Drainage Systems**

5 The stormwater system at Mountain Home AFB consists of curb-line grates, runoff collectors,
6 drainage ditches, road culverts, and underground distribution lines. The installation operates
7 under an National Pollutant Discharge Elimination System (NPDES) Multi-Sector General
8 Permit for Storm Water Discharges Associated with Industrial Activity. Stormwater is
9 discharged via one permitted outfall (Outfall 001) to a tributary of Canyon Creek. As long as the
10 stormwater meets the conditions and quality of the NPDES stormwater permit, there are no
11 limitations on the volume of stormwater that may be discharged (MHAFB 2011c).

12 At Building 291 there is a stormwater main line which runs adjacent to the building on the
13 northwest side. That line also branches twice – once running southeast to northwest, perpendicular
14 to the main line, and once running east to west between the two LOLAs. Another storm service
15 line runs east to west on the south side of the southernmost LOLA. All of the stormwater lines
16 within the 103-acre facility have been determined to be in average to good condition (MHAFB
17 2014). Nine stormwater catch basins and one stormwater curb inlet are located within the 103-
18 acre footprint. With the exception of one basin located furthest southeast, all of the basins and
19 inlets have good surface condition and average to good interior condition (MHAFB 2014). The
20 stormwater infrastructure is generally in average to good condition and is adequate to support
21 stormwater runoff at the Alert Complex.

22 Section 402(p) of the Clean Water Act (CWA) states that stormwater discharges associated with
23 industrial activity to waters of the United States must be authorized by an NPDES permit.
24 Mountain Home AFB currently operates under an NPDES Multi-Sector General Permit for
25 Stormwater Discharges Associated with Industrial Activity (Permit No. IDR050000). The permit
26 authorizes the discharge of stormwater associated with industrial activity to surface waters, in
27 accordance with effluent limitations, monitoring requirements, and other conditions (USEPA
28 2008).

29 **3.9.2.5 Solid Waste**

30 Mountain Home AFB has a Solid Waste Management Plan (SWMP) in accordance with AFI 32-
31 7042, Solid and Hazardous Waste Compliance. The SWMP provides the guidelines for
32 organizing, managing, planning, and implementing the installation’s Solid Waste Management
33 Program. The SWMP also describes previous, current, and future solid waste management actions
34 at Mountain Home AFB. The 366 CES is responsible for managing the collection and disposal of
35 all municipal solid waste (MSW) and for the tracking and reporting of recycled materials (MHAFB
36 2014).

37 The Mountain Home AFB MSW landfill was closed in March 2009, and a post-closure plan for
38 continued monitoring and reporting is in place. The installation currently uses a contractor to
39 collect MSW generated on-installation and dispose of it at Simco Regional Landfill Operated by

1 Idaho Waste Systems (Jackson 2015). In 2015, Mountain Home AFB disposed of 1,000.52 tons
2 of solid waste (Jackson 2015). According to the 2014 Solid Waste Management Plan,
3 approximately 42,000 tons of construction and demolition waste are generated at Mountain Home
4 AFB annually and disposed at a permitted off-base landfill (MHAFB 2014).

5 Mountain Home AFB has a goal of reducing solid waste generated and increasing percentage of
6 solid waste that is recycled and reused. As part of its Pollution Prevention program, Mountain
7 Home AFB recycles materials such as aluminum, paper, tin, cardboard, wood, and plastic. All
8 industrial recycling containers are collected and transported to the Recycling Center (MHAFB
9 2014). In 2015, Mountain Home AFB recycled 514.18 tons of material (Jackson 2015).

10 **3.9.2.6 Transportation**

11 Mountain Home AFB is approximately 10 miles southwest of Interstate 84. Primary access to
12 Mountain Home AFB is via Airbase Road (Idaho State Route 67) through the Main Gate. The
13 Alert Complex is accessible via Bomber Road. Access is restricted by a locked gate. Currently,
14 the site is only accessible by contacting the 366th Security Forces Squadron to request personnel
15 to unlock the gate. A minor asphalt roadway leads the remaining approximate one-half mile to the
16 facility. The roadway and parking areas are composed of asphalt and concrete which are in poor
17 condition and are in need of resurfacing and crack repair (ACC 2013). Bomber Road is also the
18 access route for personnel participating in the 366 CES Readiness and Emergency Management
19 Flight training exercises at the MOAB site.

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CHAPTER 4
ENVIRONMENTAL CONSEQUENCES

4.1 INTRODUCTION

This chapter describes the potential environmental consequences that are likely to occur as a result of implementation of the Proposed Action. The No-action Alternative provides a baseline against which the impacts of the proposed and alternative actions can be compared. Discussion of measures that could be implemented to minimized potential impacts are included as necessary. If the actions result in irreversible or irretrievable results, it is noted within the sections below. Criteria and assumptions used to evaluate potential impacts are discussed at the beginning of each section.

4.2 NOISE

Training activities anticipated under the Proposed Action are expected to be limited to primarily office work and would not be expected to generate noise outside of Building 291. Therefore, impacts analysis in this EA will be limited to construction noise. Impacts from noise would be considered significant if the Alternatives resulted in noise levels at noise sensitive receptors above 75 dBA, the requisite level to protect health and welfare with an adequate margin of safety (USEPA 1974).

4.2.1 Proposed Action

Under the Proposed Action, the majority of construction or renovation activities would occur within Building 291 and would produce temporary increases in noise inside the building. Since exterior walls are 12-inch thick reinforced concrete, it is expected that interior construction noise would be barely audible outside the building. Additionally, all building renovations would occur prior to occupation and use of the building for training. Construction activities outside of Building 291 would include roof renovations and utilities replacement/renovation. However, it is assumed that no heavy construction equipment would be utilized for these activities but would rather be completed with hand tools that do not create significant levels of noise. Other outdoor construction activities would include routine grounds maintenance; rehabilitation of existing parking pads, access roads, and sidewalks; and repaving of existing roads and parking areas. Routine grounds maintenance would utilize lawn mowing equipment which produces average noise levels of 85-90 dB at the source. Even at the upper end of the noise range, noise generated from the source would contribute approximately 17dBA to the baseline noise levels at the closest noise sensitive receptor; however, since decibels are a logarithmic unit, the additional noise would not add to the existing levels. Grounds maintenance personnel should wear protective devices such as ear plugs or ear muffs during mowing activities to reduce noise exposure.

Pavement and asphalt rehabilitation and repaving would utilize jackhammers, pavers, and rollers, the loudest of which would be jackhammers with average noise levels of 89 dBA at 50 feet from the source. It is not expected that any of the paving equipment would be used concurrently. Maintenance and construction workers should wear protective devices such as ear plugs or ear

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1 muffs during mowing and construction/renovation activities to reduce noise exposure.
2 Construction equipment noise levels would contribute approximately 50 dBA to the baseline noise
3 levels at the closest noise sensitive receptor; however, since decibels are a logarithmic unit, the
4 additional noise would result in a negligible increase in existing levels.

5 All of the noise-producing maintenance activities described in the Programmatic Agreement would
6 occur periodically and would be temporary. None of the activities proposed would produce noise
7 levels at noise sensitive receptors above the requisite level to protect health and welfare with an
8 adequate margin of safety (i.e. 75 dBA). Therefore, impacts from noise would be expected to be
9 short-term and minor.

10 **4.2.2 No-action Alternative**

11 Under the No-action Alternative, impacts from noise-producing activities identified within the
12 2015 Programmatic Agreement would be similar to those described for the Proposed Action. None
13 of the other activities under the No-action Alternative would be expected to produce increases in
14 ambient noise levels. Therefore, impacts from noise would be expected to be short-term and minor.

15 **4.2.3 Measures to Reduce Impacts**

16 No mitigation measures would be necessary under the alternatives. Under the both the Proposed
17 Action and the No-action Alternative, best management practices (BMPs) would include
18 equipping noise-generating heavy equipment at the project site with the manufacturer's standard
19 noise control devices (i.e., mufflers, baffling, and/or engine enclosures). All equipment should be
20 properly maintained to ensure that no additional noise from worn or improperly maintained
21 equipment parts is generated. Construction activities would occur between 0700 and 1900 hours
22 (when possible) and would be conducted according to OSHA regulations 29 CFR 1910.95 and 29
23 CFR 1926.52. DoD personnel present within hazardous noise areas as stated in Air Force
24 Occupational Safety and Health Administration Standard 48-20 should follow the applicable
25 hearing protection measures. Non-DoD civilian personnel should comply with applicable federal
26 and state regulations. Occupational exposure to the noise from heavy equipment could be reduced
27 by requiring workers to wear appropriate hearing protection. Hearing protective devices such as
28 ear plugs or ear muffs should be worn at all locations where workers may be exposed to high noise
29 levels. These minimization measures shall be updated to reflect current practices at the time of
30 project execution.

31 **4.3 LAND USE**

32 The following factors were considered in evaluating potential land use: (1) the degree to which the
33 action would interfere with the activities or functions of adjacent existing or proposed land uses
34 and (2) the degree to which any physical changes in land use would affect surrounding uses and
35 compatibility with land use plans. The alternatives could have a significant effect if they conflict
36 in substantial fashion with existing land uses and master planning efforts undertaken by the
37 installation.

1 **4.3.1 Proposed Action**

2 Under the Proposed Action, the land use classifications of the Alert Complex would not be
3 expected to change. Additionally, there would be no changes made to the existing LOLAs or their
4 availability for aircraft parking.

5 Although the Alert Complex is located within QD arcs, the Proposed Action includes an
6 emergency action plan that would be implemented when an aircraft carrying explosive cargo must
7 make an emergency landing at Mountain Home AFB and must be parked on a LOLA. During this
8 time, no non-mission essential personnel can occupy the area within the QD arcs. In cases of
9 emergency landings the Airfield Manager would immediately notify the training instructor,
10 wherein the instructor would begin an immediate evacuation of the property such that all personnel
11 would relocate outside the QD Arcs for that aircraft's location on the LOLA. Implementation of
12 this emergency plan would alleviate any land use conflicts between the QD arcs and occupation
13 of the Alert Complex. Training instructors would also coordinate training times with the Airfield
14 Manager so as not to conflict with scheduled LOLA occupation by an aircraft.

15 The runway clear zone is not typically compatible with structures; however, Building 291, located
16 within the clear zone, has received an exemption because the facility was constructed under a
17 previous standard.

18 The 2015 Programmatic Agreement between Mountain Home AFB, the Advisory Council on
19 Historic Preservation, and the Idaho SHPO for the Alert Complex prescribes the long-term
20 management plan for the historic facility (MHAFB 2015a). The Proposed Action would include
21 implementation by the training units of all the management components of the 2015 Programmatic
22 Agreement.

23 The Proposed Action would not be expected to conflict in substantial fashion with existing land
24 uses and master planning efforts undertaken by the installation.

25 **4.3.2 No-action Alternative**

26 Under the No-action Alternative, there would be no change to the existing land use classifications
27 and Building 291 would continue to operate under the clear zone exemption. There would be no
28 conflicts with the QD arcs, as the building would not be occupied. All management components
29 of the 2015 Programmatic Agreement would be implemented. No impacts to land use or
30 installation master planning efforts would be expected as a result of the No-action alternative.

31 **4.3.3 Measures to Reduce Impacts**

32 No mitigation measures would be required and no BMPs would be recommended. Preparation
33 and implementation of an emergency action plan within the QD arcs would alleviate any land use
34 conflicts.

1 **4.4 HAZARDOUS MATERIALS AND WASTES**

2 The degree to which the Proposed Action and the No-action Alternatives could affect the existing
3 environmental management practices was considered in evaluating potential from hazardous
4 materials and wastes. Significant impacts could result if hazardous or regulated materials/wastes
5 were collected, stored or disposed of improperly.

6 **4.4.1 Hazardous Materials**

7 **4.4.1.1 Proposed Action**

8 During the proposed renovation of Building 291 products containing hazardous materials would
9 be procured and used. The contractors conducting the work will use the products containing
10 hazardous materials for equipment operation (e.g. fuels, oils, hydraulic fluid) during demolition as
11 well as during construction (e.g. adhesives, sealants, roofing materials). These materials must be
12 properly contained and managed in accordance with federal and state regulations. The Civil
13 Engineering Office will coordinate and approve any hazardous materials to be used or maintained
14 on base (MHAFB 2010b). Therefore, no impacts related to or from hazardous materials would be
15 expected under the Proposed Action.

16 Pesticides. Under the Proposed Action there is the potential for increases in preventative exposure
17 methods to minimize the possibility for human contact with HPS, including an increase of pesticide
18 application within Building 291. Pesticides applications would follow all label cautions and
19 instructions to reduce hazards. All applications of pesticide would meet all federal, state, and local
20 requirements and would comply with FIFRA, AFI32-1053 Integrated Pest Management Program
21 (implemented at Mountain Home AFB through the IPMP), DoDI 4150.7 Integrated Pest
22 Management, and DoDI 4715.4 DoD Pest Management Program, and as such would impact the
23 target species only. Therefore, adverse impacts from pesticides are not expected under the
24 Proposed Action.

25 Should pesticides be spilled, the MHAFB Fire Department will be notified and the Spill Response
26 team will be activated to control any further contamination. Once the spill is contained the cleanup
27 materials will be disposed of properly (MHAFB 2012a).

28 Environmental Restoration Program. None of the Mountain Home AFB ERP sites are located
29 within the proposed project footprint. As such, they would not affect or be affected by construction
30 activities associated with the Proposed Action.

31 **4.4.2 Asbestos, LBP, Mercury, and PCBs**

32 Asbestos. The demolition contractor would be responsible for all ACM removal prior to
33 demolition. All friable ACM would be removed by a licensed asbestos abatement contractor and
34 all non-friable ACM would be disposed as solid waste along with other construction debris as long
35 as the landfill is permitted to accept non-friable ACM. All debris mixed with ACM would need to
36 be kept wet to minimize airborne fibers and would need to be sent to an asbestos approved landfill
37 (MHAFB 2015e). Beneficial impacts of the Proposed Action would be the removal of ACM within

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1 Building 291 during the renovation. ACM would be managed in accordance with all federal, state,
2 and local regulations and DoD and USAF policies and requirements; therefore, adverse impacts
3 from ACM are not expected under the Proposed Action.

4 LBP. For surfaces where LBP was identified during the LBP survey (CH2M Hill 2012), the waste
5 generated from demolition must be handled, accumulated, and disposed of in accordance with all
6 federal, state, and local regulations and would be the responsibility of the contractor. Construction
7 activities would not include use of LBP. Beneficial impacts of the Proposed Action include
8 removal of LBP from Building 291. LBP would be managed in accordance with all federal, state,
9 and local regulations and DoD and USAF policies and requirements; therefore, adverse impacts
10 from LBP are not expected under the Proposed Action.

11 Mercury and PCBs. The mercury and potential PCB containing fluorescent light ballasts identified
12 in Building 291 would be removed and disposed of in accordance with all federal, state, and local
13 regulations including RCRA requirements for waste management and USDOT requirements for
14 waste transport; therefore, adverse impacts from mercury and PCBs are not expected under the
15 Proposed Action. In addition, removal of the mercury and potential PCB-containing materials
16 would result in a beneficial impact as a result of the Proposed Action.

17 **4.4.2.1 No-action Alternative**

18 During the No Action Alternative at Building 291 products containing hazardous materials would
19 be procured and used. The contractors conducting the work could use the products containing
20 hazardous materials for equipment operation (e.g. fuels, oils, hydraulic fluid) during the
21 rehabilitation of parking pads, access roads and sidewalks as well as during construction (e.g.
22 adhesives, sealants, moisture control). These materials would be properly contained and managed
23 in accordance with federal and state regulations. The Civil Engineering Office would coordinate
24 and approve any hazardous materials to be used or maintained on base (MHAFB 2010b).
25 Therefore, no impacts related to or from hazardous materials would be expected under the No-
26 action alternative.

27 Asbestos, Lead Based Paint, Environmental Restoration Program. Under the No-action Alternative
28 for Building 291, there would be no impact to the baseline conditions for asbestos, LBP, or ERP
29 described in Sections 3.5.2.

30 Pesticides. Under the No-action Alternative there would be no change to the baseline conditions
31 related to the pesticide use in Building as described in section 3.5.1.3. Pest control services for
32 Building 291 would continue including the quarterly application of rodenticide to the exterior of
33 the facility; placement of rodent traps within the facility, and refilling the rodent bait boxes with
34 the rodenticide Confrac bait blox.

1 **4.4.3 Hazardous Waste**

2 **4.4.3.1 Proposed Action**

3 Implementation of the Proposed Action would include renovation to the existing infrastructure
4 which would result in the generation of regulated hazardous wastes. In the event of a spill of any
5 amount of hazardous waste or hazardous material (petroleum products included), the contractors
6 would take immediate action to contain and clean up the spill, in accordance with the Base Spill
7 Prevention Control and Countermeasures Plan (MHAFB 2010b). The contractor would be
8 responsible for proper characterization and disposal of any waste and cleanup materials generated.
9 All waste and associated cleanup material would be removed from the project site and transported
10 and/or stored in accordance with regulations until final disposal. The Proposed Action is not
11 anticipated to cause noncompliance with environmental regulations or generate waste that could
12 not be accommodated by current base hazardous materials and waste management capacities.

13 **4.4.3.2 No-action Alternative**

14 Under the No Action Alternative, there would be no impact to the baseline conditions described
15 in Section 3.5.1.4. Installation activities would continue as is; no hazardous waste would be
16 generated or disposed of.

17 **4.4.4 Measures to Reduce Impacts**

18 All hazardous materials and wastes would be managed according to state, federal, and local
19 regulations.

20 **4.5 BIOLOGICAL AND NATURAL RESOURCES**

21 Evaluation of impacts is based upon 1) the importance (legal, commercial, recreational, ecological,
22 or scientific) of the resource, 2) the rarity of a species or habitat regionally, 3) the sensitivity of the
23 resource to proposed activities, and 4) the duration of the impact. Impacts to biological resources
24 would be considered significant if priority species or habitats are adversely affected over relatively
25 large areas and/or disturbances cause reductions in population size or distribution of a priority
26 species.

27 **4.5.1 Vegetation**

28 **4.5.1.1 Proposed Action**

29 Implementation of the Proposed Action would not require the disturbance of any currently
30 vegetated areas. Training at the facility would likely occur within Building 291 or on paved
31 surfaces within the 103-acre Alert Complex. None of the building’s exterior features would be
32 modified during the renovation of Building 291 and no ground disturbing activities are anticipated
33 under the Proposed Action. The grounds could possibly be used to stage equipment or erect tents
34 in support of training activities, which would have temporary minimal effects on vegetation
35 resources. Following implementation of the Proposed Action, the project sites would be

1 maintained to prevent the encroachment or spread of noxious or invasive vegetation in accordance
2 with Mountain Homes AFB’s INRMP. Therefore, no adverse impacts to vegetation are anticipated
3 as a result of the Proposed Action.

4 **4.5.1.2 No-action Alternative**

5 Under the No Action Alternative, there would be no change in the baseline conditions described
6 in Section 3.6.2.1.

7 **4.5.1.3 Measures to Reduce Impacts**

8 Vegetative resources would continue to be managed under the INRMP and all applicable
9 environmental laws with the intent of managing military installation lands to support the military
10 mission while providing sustainable populations of biological resources.

11 **4.5.2 Wildlife**

12 **4.5.2.1 Proposed Action**

13 Implementation of the Proposed Action would not require the disturbance of any vegetated areas
14 or wildlife habitat. All renovations will occur within Building 291 or on paved surfaces, which is
15 not typical wildlife habitat. Possible staging equipment on the grounds during renovations or
16 establishment of temporary infrastructure (i.e. tents) during training exercises would have
17 temporary minimal effects on habitat for small rodents and birds. However, there would be no
18 long-term adverse impacts to populations of wildlife expected as a result of the Proposed Action.

19 Under the Proposed Action, there would be an increase in human visitors to the Alert Complex.
20 Increased human disturbance would not likely deter most wildlife species using the areas around
21 the Alert Complex, since these animals would already be accustomed to the sights and sounds of
22 an area of high human impact located at the end of the runway.

23 More human visitors to the rodent infested Building 291 could increase the risk of exposure to
24 HPS, but the increased risk would likely be minimal, given the low reported incidence of
25 transmittal of HPS to humans at Mountain Home AFB and the effectiveness of preventative
26 exposure measures. In an effort to limit the potential exposure of HPS, the Proposed Action may
27 include an increase in preventative exposure methods including an increase of pesticide application
28 within Building 291. Some pesticides are toxic to fish and wildlife, so all label cautions and
29 instructions would be followed to reduce hazards to non-target animals from off-target impact. All
30 applications of pesticide would meet all federal, state, and local requirements and would comply
31 with FIFRA, AFI 32-1053 Integrated Pest Management Program (implemented at Mountain Home
32 AFB through the IPMP), DoDI 4150.7 Integrated Pest Management, and DoDI 4715.4 DOD Pest
33 Management Program, and as such would impact the target species only. Therefore, no adverse
34 impacts to non-target wildlife or humans are anticipated as a result of the Proposed Action.

1 **4.5.2.2 No-action Alternative**

2 Under the No Action Alternative, there would be no change in the baseline conditions described
3 in Section 3.6.2.2.

4 **4.5.2.3 Measures to Reduce Impacts**

5 Wildlife and conservation management practices would be followed in order to ensure that the
6 habitat necessary for all or part of the life cycle of a species is not lost and that the ecological
7 processes are not damaged to the extent that biodiversity is impaired or ecosystems are no longer
8 sustainable. Wildlife resources would continue to be managed under the INRMP and all applicable
9 environmental laws with the intent of managing military installation lands to support the military
10 mission while providing sustainable populations of biological resources.

11 A discussion on the minimization of risk of human exposure to HPS while occupying Building
12 291 is included in Section 4.7.

13 **4.5.3 Threatened, Endangered and other Protected Species**

14 **4.5.3.1 Proposed Action**

15 Implementation of the Proposed Action would not require the disturbance of any threatened,
16 endangered, and other protected species habitat. All renovations will occur within Building 291 or
17 on paved surfaces throughout the 103-acre Alert Complex, which is not threatened, endangered,
18 and other protected species habitat. Possible staging equipment on the grounds during renovations
19 or establishment of temporary infrastructure (i.e. tents) during training exercises would have
20 temporary minimal effects on adjacent vegetation, but there would be no long-term adverse
21 impacts to populations of threatened, endangered, and other protected species as a result of the
22 Proposed Action.

23 Under the Proposed Action, there would be an increase in human visitors to Building 291 in the
24 Alert Complex. The only species of concern likely to occur on the Alert Complex (burrowing owl
25 and long-eared myotis) are species that adapt to human impacts; therefore, would likely not be
26 bothered by human activity. No burrows or occurrences of the burrowing owl have been
27 documented within the Alert Complex. In addition, potential ground disturbance under the
28 Proposed Action is limited to the potential need to replace utilities along existing buried utility
29 corridors which is an unlikely location for a burrow. Therefore, disturbance of burrows or an
30 active burrowing owl nest are not anticipated under the Proposed Action. No adverse impacts to
31 threatened, endangered, and other protected species are anticipated as a result of the Proposed
32 Action.

33 **4.5.3.2 No-action Alternative**

34 Under the No Action Alternative, there would be no change in the baseline conditions described
35 in Section 3.6.3.

1 **4.5.3.3 Measures to Reduce Impacts**

2 Wildlife and conservation management practices would be followed in order to ensure that the
3 habitat necessary for all or part of the life cycle of a threatened, endangered, and other protected
4 species is not lost and that the ecological processes are not damaged to the extent that biodiversity
5 is impaired or ecosystems are no longer sustainable. To avoid any adverse impacts to the
6 burrowing owl, ground nesting surveys should be conducted prior to any (currently unforeseen)
7 ground disturbance that would occur during the nesting season from approximately 1 April through
8 15 July. If nesting burrowing owls are reported during the survey, then no ground disturbance
9 should occur. To avoid adverse impacts to the long-eared myotis, buildings should be inspected
10 for roosting bats prior to the start of proposed building renovation activities. USFWS should be
11 contacted if any protected species are incidentally encountered during activities associated with
12 the Proposed Action.

13 Threatened, endangered, and other protected species resources would continue to be managed
14 under the INRMP and all applicable environmental laws with the intent of managing military
15 installation lands to support the military mission while providing sustainable populations of
16 biological resources. Procedures outlined in the MBTA and National Defense Authorization Act
17 will be followed for the protection or mitigation of impacts to migratory birds.

18 **4.6 CULTURAL RESOURCES**

19 A number of federal regulations and guidelines have been established for the management of
20 cultural resources. Section 106 of the NHPA, as amended, requires federal agencies to take into
21 account the effects of their undertakings on historic properties. Historic properties are cultural
22 resources that are listed in, or eligible for listing in, the NRHP. Eligibility evaluation is the process
23 by which resources are assessed relative to NRHP significance criteria for scientific or historic
24 research, for the general public, and for traditional cultural groups.

25 Significant impacts to cultural resources could occur only if the proposed or alternative actions
26 would adversely affect those resources. Under federal law, impacts to cultural resources may be
27 considered adverse if the resources have been determined eligible for listing in the NRHP or have
28 been identified as important to Native Americans.

29 Analysis of potential impacts to cultural resources considers direct impacts that may occur by
30 physically altering, damaging, or destroying all or part of a resource; altering characteristics of the
31 surrounding environment that contribute to the resource’s significance; introducing visual or
32 audible elements that are out of character with the property or alter its setting; or neglecting the
33 resource to the extent that it deteriorates or is destroyed. Direct impacts can be assessed by
34 identifying the types and locations of proposed activity and determining the exact location of
35 cultural resources that could be affected. Indirect impacts generally result from increased use of
36 an area.

1 **4.6.1 Proposed Action**

2 Under the proposed action, the Alert Complex would be utilized for training by the 366 CES
3 Readiness and Emergency Management Flight and the 366 FW. None of the building’s exterior
4 features, including the earthen berm, would be modified for re-use of the facility. Also, all
5 measures would be followed by the training units per the 2015 Programmatic Agreement (MHAFB
6 2015b).

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8 The proposed action would not alter the original taxiways, aprons, parking stubs, earthen exterior
9 berm, the roadway system or the security fence. No changes would be made to the vestibules,
10 tunnels, or ramps. The roof configuration would remain in its current form and in-kind materials
11 would be used for replacing the existing roof. Therefore, the Alert Complex will not be adversely
12 affected per the 2015 Programmatic Agreement (MHAFB 2015b).

13 Replacement of utilities, signage, doors, and lighting would not alter the historic significance of
14 Building 291 and creation of dormitory space would constitute “minor modifications to interior
15 spaces that do not include portions of the building that contribute to the historical integrity or
16 uniqueness to buildings considered eligible to the NRHP”. The creation of the dormitory would be
17 in keeping with historic use of Building 291 and would not require construction or elimination of
18 walls or changes in the interior view. All of these actions would be in accordance with the 2015
19 Programmatic Agreement Regarding the Management of Historic Properties at Mountain Home
20 Air Force Base that covers routine undertakings that do not pose a potential threat to historic
21 properties (MHAFB 2015g). The Cultural Resources Manager has determined that the Proposed
22 Action would not result in an adverse effect to this historic property and further consultation with
23 the SHPO is not required.

24 Based on the proposed renovations, there would not be a significant direct or indirect impact to
25 the location, setting, design, materials, workmanship, feeling, and association of the Building 291
26 Alert Complex.

27 **4.6.2 No-action Alternative**

28 Under the No-Action Alternative, the Alert Complex would be managed according to the terms
29 and conditions identified within the 2015 Programmatic Agreement (MHAFB 2015a). The routine
30 activities proposed within the Programmatic Agreement will not cause not adverse effects to the
31 significance of the complex.

32 **4.6.3 Measures to Reduce Impacts**

33 Building 291 and its accompanying 103 acres would not directly or indirectly be impacted by
34 proposed renovation and use and therefore, there are no mitigation measures.

1 **4.7 SAFETY AND OCCUPATIONAL HEALTH**

2 The potential to increase or decrease safety risks to the public, the military, and property were
3 analyzed in this section. Measures to reduce risk potential are also addressed. The primary safety
4 categories discussed in this analysis include Ground, Aircraft and Traffic, and Construction Safety.
5 Significant impacts to ground; aircraft and traffic; or construction safety would occur if there is an
6 increase in the number and severity of incidents at the Alert Complex.

7 **4.7.1 Proposed Action**

8 Ground Safety. With the exception of potential HPS exposure, Under the Proposed Action military
9 personnel would not be exposed to biological or climatological hazards during the proposed
10 training activities under the Proposed Action would occur within Building 291 and. The potential
11 presence of HPS within Building 291 is a safety concern for any building occupants. Pest
12 management at Mountain Home AFB applies pesticide quarterly to the exterior of the facility in
13 order to limit rodent activity within and around the building. Additionally, rodent traps are set
14 within the building and are inspected weekly. To remove existing rodent droppings and urine,
15 personnel should first wear rubber or plastic gloves, then a mixture of bleach and water should be
16 sprayed on the urine and feces and allowed to soak for five minutes. Then a paper towel would be
17 used to wipe up the mess. The paper towel would be thrown away and then the area would be
18 mopped with a disinfectant or bleach solution. Gloves should then be sprayed with a disinfectant
19 or bleach solution prior to their removal. Personnel who are disinfecting the area should wash
20 their hands with soap and warm water after removing their gloves. This cleaning regime should
21 be conducted regularly, as well as immediately after noticing any rodent droppings or urine (CDC
22 ND). Implementation of this cleaning regime would minimize the risk of personnel contracting
23 HPS; therefore, the number and severity of HPS incidents at the Alert Complex would not be
24 expected to increase.

25 Workers would potentially be exposed to these hazards prior to entering and exiting the building.
26 Safety briefings with personnel could greatly reduce the potential for bodily injuries by identifying
27 dangerous insects, snakes, and climatological hazards and how to avoid them.

28 Since the Alert Complex is located within QD arcs, worker’s exposure to man-made hazards would
29 be limited to potential damage or injury from nearby potential explosion sites at the LOLAs. When
30 a C-5 aircraft carrying explosive cargo must make an emergency landing at Mountain Home AFB,
31 the aircraft are parked on a LOLA until the emergency has been resolved. During this time, no
32 non-mission essential personnel can occupy the area within the QD arcs. In other words, the Alert
33 Complex must be vacant any time potentially explosive materials are located at the LOLAs.
34 Therefore, under the Proposed Action, training instructors would coordinate training times with
35 the Airfield Manager so as not to conflict with scheduled LOLA occupation by a C-5 aircraft.
36 Additionally, in the event that an aircraft carrying explosive cargo must make an emergency
37 landing at Mountain Home AFB, the Airfield Manager would immediately notify the training
38 instructor, wherein the instructor would begin an immediate evacuation of the property such that
39 all personnel would relocate outside the QD Arcs for that aircraft’s location on the LOLA. This
40 safety plan would be implemented to reduce potential explosive incidents at the Alert Complex.

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1 The number and severity of ground safety incidents would not be expected to increase provided
2 that these BMPs and the safety plan for explosives were implemented.

3 Aircraft and Ground Traffic Safety. Under the Proposed Action, training activities within the Alert
4 Complex would not necessitate a change to the land use classification which would remain as Air
5 Operations and Maintenance. This is considered a compatible land use with the APZ I.
6 Additionally, although structures within runway clear zones are not normally compatible and are
7 typically prohibited, Building 291 has received an exemption because the facility was constructed
8 under a previous standard. As recently as 2007 the facility was used for training purposes. It is
9 not expected that future occupation of the building would increase the potential for incidents
10 beyond that which existed during the most recent training activities at the building.

11 Since there would be no base population increase as a result of the Proposed Action, traffic at
12 Mountain Home AFB would not be expected to increase; however, traffic counts within the area
13 of the Alert Complex would increase. Additional signage would be placed at the Alert Complex
14 and in the area that would provide direction on traffic flow and parking areas. Traffic safety
15 briefings could also help to lessen traffic incidents in the area. As a result, the number or severity
16 of traffic incidents at Mountain Home AFB is not expected to change.

17 Construction Safety. Construction is typically an inherently dangerous activity due to the use of
18 large, powerful and noisy pieces of equipment; however, use of heavy equipment would be limited
19 during construction activities associated with the Proposed Action. During rehabilitation of
20 existing parking pads, access roads, and sidewalks; and repaving of existing roads and parking
21 areas, workers would use heavy equipment such as jackhammers, pavers, and rollers. Roof repair
22 introduces an additional hazard of working at an elevated height. Measures would be taken in
23 order to protect both the construction workers and the residents of the installation from injury
24 during all construction activities.

25 Clear demarcation of the work area as well as fencing would be needed to keep construction
26 activities and debris in the area and bystanders out of the potentially dangerous work areas. All
27 construction contractors would be accountable for maintaining a safety program which protects
28 their employees and limits the exposure to all base personnel during the time of work.
29 Construction employees would be given the proper training to identify hazards as well as all
30 necessary PPE to do their jobs safely. The PPE would include hard hats, steel toed boots, hearing
31 protection, work gloves, reflective vests, safety harnesses, signaling flags, communication devices
32 and any other equipment deemed necessary in the safety plan. Use of PPE and signage at the
33 construction site would protect workers and bystanders from sharp or heavy tools and construction
34 materials, loose construction debris, large and noisy moving equipment. Therefore, an increase in
35 the number or severity of construction accidents would not be expected under the Proposed Action.

36 Building 291 does contain ACM, LBP, mercury, and PCBs which would be removed by a
37 competent contractor. Appropriate PPE would be required for the workers performing the removal
38 to minimize their exposure to these hazardous materials. All ACM, LBP, mercury, and PCBs
39 removed would be managed in accordance in accordance with all federal, state, and local
40 regulations and DoD and USAF policies and. Removal of these hazardous materials from Building
41 291 would result in a beneficial impact in that the materials would no longer present a hazard to

1 building occupants. Proper handling of these materials and use of PPE would minimize the
2 potential for safety impacts.

3 Construction workers could also potentially be exposed to HPS during work within and around
4 Building 291. However, following the cleaning regime described above in the ground safety
5 section would help to minimize risk of exposure. If interior work is being performed after long
6 periods of Building 291 vacancy, the cleaning regime should be conducted prior to initialization
7 of work.

8 **4.7.2 No-action Alternative**

9 Under the No-action Alternative, the only personnel who would be potentially exposed to
10 biological or climatological hazards would be maintenance personnel, pest management personnel,
11 and construction workers. Safety briefings with personnel could greatly reduce the potential for
12 bodily injuries by identifying dangerous insects, snakes, and climatological hazards and how to
13 avoid them.

14 Building 291 would not be considered an occupied building so the threat of explosive hazards
15 would only be present during routine site maintenance. Non-mission essential maintenance
16 workers would coordinate maintenance times with the Airfield Manager so as not to conflict with
17 scheduled LOLA occupation by a C-5 aircraft. Additionally, in the event that an aircraft carrying
18 explosive cargo must make an emergency landing at Mountain Home AFB, the Airfield Manager
19 would immediately notify the maintenance shop, wherein they would begin an immediate
20 evacuation of the property such that any maintenance personnel would relocate outside the QD
21 Arcs for that aircraft's location on the LOLA.

22 There would be no impacts to the APZ I or Clear Zone as a result of the No-action Alternative
23 because the building would not be occupied and it would continue to exist under a facility
24 exemption. Traffic impacts are not expected, as the amount of personnel accessing the site for
25 maintenance activities would be minimal.

26 Construction impacts from rehabilitation of existing parking pads, access roads, and sidewalks;
27 and repaving of existing roads and parking areas would be similar to those described for the
28 Proposed Action. Use of PPE and signage would protect workers and bystanders from any
29 potential safety hazards. LBP and ACM would not be disturbed under the No-action Alternative;
30 therefore, there would be no safety impacts associated with these hazardous materials. Quarterly
31 pest control activities would occur at the building; however, since the building would not be
32 occupied, there would be no HPS threat to building inhabitants. Any maintenance personnel
33 accessing the site should follow safety protocols identified in the Centers for Disease Control and
34 Prevention document *Facts About Hantavirus* (CDC ND).

35 **4.7.3 Measures to Reduce Impacts**

36 No measures to reduce impacts are required. BMPs to limit safety hazards would include briefings
37 with personnel to identify dangerous insects, snakes, and climatological hazards and how to avoid
38 them; briefings on HPS; briefings on traffic patterns; signage posted to indicate parking areas and

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1 required traffic flow patterns; signage and fencing to indicate construction areas; and PPE for
2 construction workers and those conducting LBP, ACM, mercury, and PCB removal.
3 Implementation of pest management practices and a standard cleaning regime at Building 291
4 would minimize worker's and personnel's risk of contracting HPS. Additionally, preparation and
5 implementation of an emergency action plan within the QD arcs would minimize the risk of injury
6 to workers due to unforeseen explosions.

7 **4.8 UTILITIES AND INFRASTRUCTURE**

8 Impacts to utilities and infrastructure would be considered significant if the alternatives resulted
9 in one or more of the following:

- 10 • Prolonged disruption of utility services
- 11 • Non-compliance with the 2015 Programmatic Agreement for the Alert Complex
- 12 • A change in demand which exceeds the capacity of the utility providers

13 **4.8.1 Proposed Action**

14 Under the Proposed Action, all utility systems including electrical, lighting, fire alarms, plumbing,
15 and mechanical (including heating, cooling, and ventilation systems) would be replaced or
16 renovated. These utility upgrades would be in compliance with the 2015 Programmatic Agreement
17 for the Alert Complex. All utility systems would be renovated such that their new capacity would
18 meet the demands of proposed training activities within Building 291.

19 Replacement of underground utilities would require the temporary use of trenching equipment
20 which would result in short-term disturbance to previously disturbed soils. Any soils removed
21 during utility replacement/renovation would be placed back in the trench once activities were
22 completed. The closest waterbody to the project site, the CJ Strike Reservoir, is located
23 approximately 3 miles southwest of the site. Due to its distance from the project site, it is not
24 likely to be impacted by erosion from trenching activities. Fugitive dust may be generated during
25 trenching; however, this disturbance would be minor and short-term, would fall off rapidly with
26 distance from the construction site, and would last only as long as the duration of soil disturbance.
27 Implementation of a Stormwater Pollution Prevention Plan (SWPPP), and incorporation of best
28 management practices within the SWPPP would assist in erosion control during trenching
29 activities.

30 Communication ports, smoke detectors, and emergency lighting would be installed to support
31 occupation of Building 291 by training units. Improvements such as exit signage replacement;
32 replacement/repair of egress/fire doors; rehabilitation of existing parking pads, access roads, and
33 sidewalks; repaving of existing roads or existing parking areas; maintenance of an exterior berm;
34 and roof replacement would serve to correct infrastructure deficiencies and prepare the Building
35 for occupancy. In order to maintain safety during pavement and road rehabilitation/repairs,
36 signage would be posted and fencing erected to identify construction areas.

37 Since no changes to impervious surfaces are expected under the Proposed Action, and since the
38 stormwater infrastructure at the Alert Complex is in average to good condition, no impacts to

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1 stormwater drainage systems are expected under the Proposed Action. Training at the Alert
2 Complex would not involve industrial activities; therefore, no industrial activity stormwater
3 discharges would be released to surface waters as part of the Proposed Action.

4 Solid waste generated at the Alert Complex during training activities would be limited to MSW.
5 MSW would be collected by the base solid waste contractor and disposed at the Simco Regional
6 Landfill. Any recyclable materials collected at Building 291 would be transported to the Recycling
7 Center. Construction, repair, and renovation solid waste would be collected, managed, and
8 disposed by the construction contractor. Any hazardous materials/wastes removed (i.e. ACM,
9 LBP, mercury, and potential PCBs) would be managed in accordance with all federal, state, and
10 local regulations and DoD and USAF policies and requirements.

11 None of the changes to utilities or infrastructure at the Alert Complex would be expected to cause
12 a prolonged disruption of utility services. Additionally, existing utility providers have sufficient
13 capacity to cover any increased demand that would result from the Proposed Action. Impacts to
14 utility and infrastructure systems at the Alert Complex would be beneficial and no adverse effects
15 would be expected.

16 Bomber Road is the current access route for personnel participating in the ongoing 366 CES
17 Readiness and Emergency Management Flight training exercises at the MOAB site. Therefore,
18 since the Alert Complex is also accessed via Bomber Road, traffic on this route would not be
19 anticipated to change from baseline conditions as a result of the proposed 366 CES Readiness and
20 Emergency Management Flight training exercises. In addition, it is currently not anticipated that
21 the visiting units that would utilize the Alert Complex would do so concurrently with 366 CES
22 Readiness and Emergency Management Flight personnel, so no impacts related to increased traffic
23 along Bomber Road would be anticipated under that training scenario. Rehabilitation of existing
24 parking pads, access roads, and sidewalks with in-kind materials and features within previously
25 disturbed areas as well as repaving of existing roads or existing parking areas are currently
26 proposed under the Programmatic Agreement and would be implemented under baseline
27 conditions. Therefore, no adverse impacts related to transportation would be anticipated under the
28 Proposed Action.

29 **4.8.2 No-action Alternative**

30 Under the No-action Alternative all management components of the 2015 Programmatic
31 Agreement would be implemented, including placement, maintenance, or replacement of below
32 ground utility lines and transmission lines within previously disturbed areas. Additionally, since
33 the building would remain unoccupied, there would be no disruption of utility services to building
34 occupants and no change in utility demand. No adverse impacts to utilities and infrastructure
35 would be realized as a result of the No-action Alternative. Erosion impacts would be similar to
36 those described under the Proposed Action.

37 **4.8.3 Measures to Reduce Impacts**

38 Contractors may need to spray water over the soil during trenching activities in order to reduce
39 fugitive dust. Additionally, erosion control measures, such as silt fences or other barricades may

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1 be necessary to prevent soil runoff and would be included as BMPs within the SWPPP. Safety
2 BMPs such as posting signage and erecting fencing around construction areas would minimize
3 hazards to workers and base personnel

4 **4.9 CUMULATIVE EFFECTS**

5 Currently, there are no known past, present, or foreseeable future projects that would affect or be
6 affected by actions at the Alert Complex.

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Ann Erickson	MS Natural Resources	Resource Specialist, Biological and Natural Resources	15
Tamara Carroll	BS Bioenvironmental Science	Resource Specialist, Noise, Land Use, Safety and Occupational Health, Utilities and Infrastructure	14
Stacey Gray	BS Environmental Science	Resource Specialist, Hazardous Materials and Wastes	10
Teresa Rudolph	MA Anthropology	Resource Lead, Cultural Resources	35
Isla Nelson	BA Anthropology	Resource Specialist, Cultural Resources	15
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Mountain Home Air Force Base, Idaho*

- 1 Mayor of Boise, Idaho
2 The Honorable David H. Bieter
- 3 Mayor of Twin Falls, Idaho
4 The Honorable Shawn Barigar
- 5 Mayor of Grand View, Idaho
6 The Honorable Franklin D. Hart
- 7 Mountain Home City Council
- 8 Mountain Home Chamber of Commerce
- 9 Twin Falls Chamber of Commerce
- 10 Boise Metro Chamber of Commerce
- 11 Elmore County Commission
12 Mr. Wes Wootan
13 Mr. Bud Corbus
14 Mr. Al Hofer
15
- 16 **Other Agencies and Individuals**
- 17 Special Assistant, Military Affairs
18 Col. Billy F. Richey, USAF Retired
19
- 20 State Historic Preservation Office
21 Tricia Canaday, State Architectural Historian, National Register Coordinator
22 Jamee Fiore, Preservation Review Officer, Section 106 Review
- 23 Idaho Fish and Game
24 Mr. Virgil Moore
25 Mr. Daryl Meints
- 26 Advisory Council on Historic Preservation
27 Ms. Katharine Kerr
- 28 National Trust for Historic Preservation (Washington D.C.)
- 29 National Trust for Historic Preservation (Western Field Services)
30 Ms. Sherri Freemuth
- 31 Warhawk Air Museum
32 Mr. John R. Paul

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*Environmental Assessment
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- 1 Preservation Idaho
- 2 The Idaho Historic Preservation Council
- 3 Idaho Professional Archaeological Council
- 4 University of Idaho, College of Art and Architecture
- 5 Mr. Randall Teal
- 6 American Legion Auxiliary Unit 26
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APPENDIX A – 2015 PROGRAMMATIC AGREEMENT

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PROGRAMMATIC AGREEMENT AMONG
THE 366TH FIGHTER WING,
THE IDAHO STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
REGARDING MANAGEMENT OF THE COLD WAR ALERT FACILITY AT
MOUNTAIN HOME AIR FORCE BASE

WHEREAS, 366th Fighter Wing (FW) plans to carry out a treatment plan to clean up and stabilize Building 291 (the undertaking) which is part of the Cold War Alert Facility (Alert Facility) pursuant to the National Historic Preservation Act, 16 U.S.C. 470h-2(a); and

WHEREAS, the undertaking consists of controlling pests, securing exterior envelope from moisture, and structurally stabilizing the building where needed; and

WHEREAS, the Alert Facility is located on Mountain Home Air Force Base (MHAFB), in Elmore County, Idaho, and includes Building 291, three taxiways, two herringbone alert aprons, access road system, secure fencing, and blast reflectors, and the 366FW has defined the undertaking's area of potential effect (APE) as the 103 acres encompassing the Alert Facility illustrated in Attachment A; and

WHEREAS, the 366FW has determined that the development of a Programmatic Agreement (Agreement), in accordance with 36 CFR § 800.14(b)(3) is warranted because the undertaking consists of multiple actions and long term management plans; and

WHEREAS, the 366FW has determined that the undertaking may have an adverse effect on the Alert Facility, which is eligible for listing in the National Register of Historic Places, and has consulted with the Idaho State Historic Preservation Officer (SHPO) pursuant to 36 C.F.R. Part 800, of the regulations implementing Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108); and

WHEREAS, in accordance with 36 C.F.R. § 800.6(a)(1), the 366FW has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination with specified documentation and the ACHP has chosen to participate in the consultation pursuant to 36 C.F.R. § 800.6(a)(1)(iii); and

WHEREAS, the 366FW completed documentation in accordance with the Historical Architectural Building Survey (HABS) on the Alert Facility (HABS No. ID-118-E) in [YEAR] which is on file with the Library of Congress; and

WHEREAS, the 366FW has completed a Feasibility Study for Building 291 (2013), addressing management option costs; and

WHEREAS, the 366FW is developing guidance to apply to all design and construction work performed within the Alert Facility by either in-house or contractor personnel, to be used for all

projects and construction work conducted within the Alert Facility to avoid adverse effects to historic properties in accordance with 36 CFR Parts 800.5(a)(1) and 800.5(a)(2)(ii); and

NOW, THEREFORE, the 366FW, the SHPO, and the ACHP agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

STIPULATIONS

366FW shall ensure that the following measures are carried out:

I. Qualifications

- A. The 366FW Wing Commander is responsible for ensuring that all historic properties on MHAFB that are listed in or may be eligible for the NRHP are managed and maintained in a way that meets NHPA requirements. The 366FW Wing Commander shall designate the Cultural Resources Manager (CRM) with the authority to implement the stipulations identified in this Agreement. All actions performed by 366FW, or on behalf of 366FW, in compliance with the terms of this Agreement shall be conducted by, or under the supervision of, a qualified professional meeting the Secretary of the Interior's Professional Qualification Standards in Archaeology, History, Architecture, Architectural History, or Historic architecture, as applicable.
- B. Where contractors are employed to work on the Alert Facility, the 366FW shall ensure that experience in relevant aspects of historic preservation will be an evaluation factor in the contractor selection process, as appropriate.

II. Treatment of Alert Facility

- A. Within 180 days of execution of this Agreement, the 366FW shall seek funding for extermination and initial cleanup.
- B. Any routine maintenance and repair activity, or an activity that is listed below, shall not require the 366FW to consult with the SHPO or other consulting parties. These activities shall be included in the Annual Report.
 - 1. Preservation maintenance (housekeeping, routine and cyclic maintenance, and stabilization) meeting standards and guidelines;
 - 2. Routine grounds maintenance, such as grass cutting and tree trimming;
 - 3. Rehabilitation of existing parking pads, access roads, and sidewalks with in-kind materials and features within previously disturbed areas;

4. Repaving of existing roads or existing parking areas within previously disturbed areas;
 5. Placement, maintenance, or replacement of below ground utility lines, transmission lines, within previously disturbed areas;
- C. Within one year of execution of this Agreement, the 366FW shall choose to accomplish the following treatment; all subsets under this section will be completed as defined within five years of execution of this Agreement.
1. Preservation in Place
 - a) Stabilization shall occur to correct any deficiencies while the building remains vacant to include but not limited to:
 - (1) controlling pests;
 - (2) securing exterior envelope from moisture; and
 - (3) structurally stabilizing the building where needed
 - b) Maintain the exterior berm
 - c) Secure the building from vandals and break-ins to include but not limited to:
 - (4) Securing the roof access panels with locks; and
 - (5) Boarding up egress tunnel windows to protect corrugated material
 - d) Maintain interior ventilation per Secretary of Interior Standards
 - e) In conjunction with the 366th Security Force Squadron (SFS), the 366th Civil Engineer Squadron (CES) shall develop a routine maintenance and law enforcement monitoring plan and routine maintenance plan. Scheduled maintenance and law enforcement monitoring will be documented in the annual MHAFB report to SHPO.

III. Annual Report

- A. Annually, the 366FW shall, on the anniversary of the execution of this Agreement, provide to the SHPO and Council a report that summarizes MHAFB undertakings under this PA, in relation to historic resources, and describe the projects that will occur in the coming year.

- B. This annual report will include the following:
 - 1. Updated annual list of undertakings affecting the Alert Facility since the previous annual report;
 - 2. Updated annual list of issues encountered during the year associated with the Alert Facility to include the 103 acre site and, list of changes MHAFB proposes to address these issues;
- C. As required, MHAFB will arrange an annual meeting with the ACHP and SHPO to discuss areas of concerns which may have been encountered since the submittal of the last annual report.
- D. If requested by ACHP and/or SHPO, 366FW shall facilitate, dependent on mission and safety factors which reasonably might influence the response, in-person inspections of the Alert Facility.
- E. All signatories to this PA will have 30 days from receipt of the annual report to comment, at which time, the annual report will be considered a final record.
- F. At the request of any of the signatories, this Agreement may be reviewed for possible modifications, termination, or extension at any time.

IV. Anti-Deficiency Act

- A. The stipulations of this Agreement are subject to the provisions of the Anti-Deficiency Act. If compliance with the Anti-Deficiency Act alters or impairs 366FW's ability to implement the stipulations of this Agreement, 366FW will consult in accordance with the amendment and termination procedures below.

V. Administrative Provisions

- A. 366FW CRM is the point of contact between the SHPO, ACHP, and 366FW.
- B. This Agreement may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.
- C. If any signatory to this Agreement determines that its terms will not or cannot be carried out, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation V(B), above. If within 30 calendar days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the Agreement upon written notification to the other signatories.

1. Once the Agreement is terminated, and prior to work continuing on the undertaking, the 366FW must either (a) execute a Memorandum of Agreement pursuant to 36 C.F.R. § 800.6 or (b) request, take into account, and respond to the comments of the ACHP under 36 C.F.R. § 800.7. The 366FW shall notify the signatories as to the course of action it will pursue.
- D. Should any signatory to this Agreement object at any time to any actions proposed or the manner in which the terms of this Agreement are implemented, the 366FW shall consult with such party to resolve the objection. If the 366FW determines that such objection cannot be resolved, the 366FW will:
1. Forward all documentation relevant to the dispute, including the the 366FW's proposed resolution, to the ACHP. The ACHP shall provide the 366FW with its advice on the resolution of the objection within 30 calendar days of receiving adequate documentation. Prior to reaching a final decision on the dispute, the 366FW shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories and concurring parties, and provide them with a copy of this written response. The 366FW will then proceed according to its final decision.
 2. If the ACHP does not provide its advice regarding the dispute within the 30 calendar day time period, the 366FW may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, the 366FW shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the Agreement, and provide them and the ACHP with a copy of such written response.
 3. The 366FW 's responsibility to carry out all other actions subject to the terms of this Agreement that are not the subject of the dispute remain unchanged.
 4. Should any member of the public raise a timely and substantive objection pertaining to the manner in which the terms of this Agreement are carried out, at any time during its implementation, the 366FW shall take the objection into account by consulting with the objector to resolve the objection. When the 366FW responds to an objection, it shall notify the consulting parties of the object and the manner in which it was resolved. The 366FW may request the assistance of (a consulting party) to resolve an objection.

- E. This Agreement shall expire 10 years after execution. Six months prior to the expiration date, the 366FW shall review the Agreement in consultation with the SHPO and the ACHP to consider possible modifications or extension. All previous addendums shall be incorporated prior to reapproval.

Execution of this Agreement by the 366FW, SHPO, and ACHP and implementation of its terms evidence that 366FW has taken into account the effects of this undertaking on historic properties and afforded the ACHP an opportunity to comment.

PROGRAMMATIC AGREEMENT AMONG
THE 366TH FIGHTER WING,
THE IDAHO STATE HISTORIC PRESERVATION OFFICER, AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
REGARDING MANAGEMENT OF THE COLD WAR ALERT FACILITY AT
MOUNTAIN HOME AIR FORCE BASE

MOUNTAIN HOME AIR FORCE BASE

BY: _____ DATE: _____
DAVID R. IVERSON, Col, USAF
366FW Commander

ADVISORY COUNCIL ON HISTORIC PRESERVATION

BY: _____ DATE: _____
John M. Fowler
Executive Director

STATE HISTORIC PRESERVATION OFFICE

BY: _____ DATE: _____
State Historic Preservation Officer

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APPENDIX B – 2013 FEASIBILITY STUDY

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Feasibility Study – FINAL
Ready Alert Facility Building 291
Mountain Home Air Force Base
Elmore County, Idaho



PROFILE CONSULTANTS, INC.

August 2013
Project No.: 13.104.001

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7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES) Geo-Marine, Inc. 2201 K Avenue, Suite A2 Plano, Texas 75074 Profile Consultants, Inc 2212 Arlington Downs Rd, Arlington, TX 76011			8. PERFORMING ORGANIZATION REPORT NUMBER U.S. Air Force Air Combat Command Series Report of Investigations Number 90	
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**FEASIBILITY STUDY:
90% REVIEW DRAFT FOR
READY ALERT FACILITY, BUILDING 291
MOUNTAIN HOME AIR FORCE BASE,
ELMORE COUNTY, IDAHO**

DRAFT

By
Profile Consultants, Inc.

Under Contract with
Geo-Marine, Inc.

For
Mountain Home Air Force Base, Idaho

Profile Consultants, Inc
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August 2013

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Preface

This document if viewed or referenced electronically contains various electronic links identified as "[Hyperlinks](#)" to additional documents and miscellaneous forms contained and referenced herein.

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**READY ALERT FACILITY - BUILDING 291
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1 EXECUTIVE SUMMARY

In December 2012, Mountain Home Air Force Base Cultural Resources personnel requested a feasibility study to be conducted for the Ready Alert Facility - Building 291 (herein referred to as “the facility”) located at 12 Bomber Road at Mountain Home Air Force Base, Elmore County, Idaho. The purpose of this study was to determine the potential future usefulness of the facility with consideration to cost impacts necessary for maintenance and upgrades for building occupancy.

A retro-commissioning (R-Cx) approach was utilized to determine the condition of the facility sorted by major building Construction Specifications Institute discipline. An assessment rating scale was developed with particular emphasis on the following current and future criteria:

- Life Cycle Future Usefulness
- Life Safety Issues
- Cause for Personal Injury
- Cost Effectiveness



Figure 1-1: Exterior view from the southwest

A. Overview

The facility measures approximately 33,000 square feet and was constructed between 1957 and 1960. During its occupancy, the facility underwent various upgrades to renovate mechanical and electrical systems. The facility continued to be used for base operations until its vacancy in 2007. Since its vacancy, the facility does not appear to have undergone routine maintenance and has been subjected to vandalism and rodent infestation, which has contributed to the environmental hazards identified in this feasibility study.

In April 2013, an assessment team traveled to the facility to perform onsite observations to assess its various building aspects. It should be noted that all information included in this study has been based, in part, on provided reports, record drawing information, and visual observations performed at this site. Please note that destructive laboratory material testing was not performed during the preparation of this study. The assessment documentation provided herein is based on visual inspection and rating conditions of building elements and equipment in their current state.

B. Approach

Professional R-Cx services to support a condition assessment of the facility infrastructure systems were used in the development of this study.

The R-Cx activities included a life cycle evaluation of existing elements and complete observational condition assessment of the structure, interior, envelope, mechanical / HVAC, plumbing, electrical, fire protection, and surrounding site to determine, as best as feasible, the potential continued future use of the facility.

C. Findings

The following provides a summary of the findings produced through on-site investigations and assessments completed. Specific information can be found in the subsequent sections of this study.

Overall Assessment Observation Report Matrix	
Building Element	Rating
Environmental	0.0
Architectural	1.5
Structural	2.7
Mechanical	0.9
Plumbing	0.6
Electrical	1.8
Fire Protection Systems	1.6
Condition Rating Guide	
3	Good – Condition / Equipment - is above expected normal
2	Average - Condition / Equipment – is as expected from normal
1	Poor - Condition / Equipment is lower than expected from normal
0	Failed - Condition / Equipment has failed
Overall Building Average:	1.3

2 FACILITY ASSESSMENT

A. Environmental

Most of the information pertaining to the environmental elements associated with this facility was based on site observations and an Environmental Sampling Study prepared by CH2MHILL dated December 2012.

Interior: It has been confirmed that the facility contains asbestos containing building materials (ACBM), lead-based paint (LBP), mercury, and polychlorinated biphenyls (PCBs) - all readily used during the period of construction for the facility. Any renovation or demolition activities would require abatement of these elements prior to the commencement of work.



Figure 2-1: Asbestos mastic used for wall paneling

Further observations also confirmed the presence and heavy infestation of rodent activity in the facility. Remaining furnishings, finishes, and other materials left in the facility after vacancy have become prime materials for nesting and food source. It should be noted that evidence of rodent droppings and nesting were not as prevalent in areas where no consumable materials existed. Rodent droppings are visible throughout the facility and this is the source of the Hanta virus (via generation of microscopic particles of dust



Figure 2-2: Rodent infestation / droppings

into the air), and inhalation of the dust by humans.

Hanta-viruses cause potentially fatal diseases in humans, who can become infected through urine, saliva, or contact with rodent waste products. Any renovation or demolition activities for the facility would require removal of the rodent droppings prior to the commencement of work. Hanta virus remediation and worker protection need to be incorporated into the “pre-cleaning and set-up” portions of the asbestos abatement work.

Environmental Assessment Observation Reports		
Item No.	Description	Rating
B291 N 001	Interior	0
Condition Rating Guide		Overall Average: 0
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

B. Architectural Systems

The facility is a two-level building that encompasses approximately 33,000 square feet and has been unoccupied since 2007. The facility is located in close proximity to the southern apron along the principal runway for Mountain Home Air Force Base. A road system provides access to the two-level building. The lower level of the facility (subterranean) accommodated areas that served as temporary living quarters during the occupancy of the facility from 1960 to 2007. The second level exhibits no windows and accommodated partitioned offices, meeting areas, and restroom facilities.

Site: The drives, roads, and parking areas are composed of asphalt and concrete. Sidewalks to the egress ramps of the facility are constructed of concrete. Landscape is limited to grasses and brush areas of ground cover. Some of these display overgrown vegetation, limiting access to some walking and egress locations. The facility contains 12, round, corrugated steel tunnels that provide access to the building. All but (2) two of these tunnels provide access to the lower level of the facility. Many of the asphalt roadways and parking areas, as well as the former tennis court area on the northeast side of the facility, are in poor condition and would require resurfacing and crack repair.



Figure 2-3: Exterior view from the east

Building Exterior: The building shell consists of reinforced concrete and concrete masonry units (CMU) walls with exterior applied plaster with a painted finish. The walls appear in good condition with no stress fractures or other damages observed. Based on the age of the facility, the building joint seals are in acceptable condition. The exterior of the building requires conditioning and new paint, particularly at the corrugated metal entrance tunnels. The access tunnels require removal and replacement of windows, the installation of security bars as a deterrent from vandals, and new door/door hardware to ensure security.

The roof is a low-pitched gable constructed of a modified asphaltic system using an insulated, 4-ply, built-up roof system on metal deck panels over an open, steel joist structure. Records indicate the roof was last reconditioned in 1991 by Quality Tile Roof Repair. Access to the roof during the site visit performed for this study was not possible due to accessibility difficulty; however, inspection of the lower roof indicates it to be in good condition. Roofs of this type generally have a 40 to 50 year life expectancy according to the manufacturer. Interior roof drains and scuppers that discharge water from the roof appear to be functioning properly. The exterior perimeter metal flashing at the roof edges appears to be in poor condition and may be allowing moisture to enter.

Some deterioration was observed in the ceiling of the mechanical room. Due to the extensive penetrations and failure of roof flashing, water infiltration is occurring. This infiltration and rust is apparent on some of the abandoned electrical and mechanical equipment.

Building Interior: The building interior consists of painted reinforced concrete and CMU partitions. The office areas in both structures are finished with carpet with vinyl base, or VCT (Vinyl Coated Tile) flooring, and lay-in suspended ceilings throughout. It appears that in several areas, a secondary, lower ceiling was installed. These varied from drywall systems to suspended tile systems.

Restroom floor finishes consist of ceramic tiles and resilient flooring. Interior doors are metal frame with wood doors. The interior built-out area is used for offices, open administrative areas, and meeting rooms; break rooms and restrooms are located on both levels. A stairwell, accessible from the ground level, provides access to the mechanical room which is below the sub-terrain level along the north side of the building. Two interior stairwells provide access to all levels. The west stairwell includes a ladder with a hatch for roof access.



Figure 2-4: Typical interior lower level corridor



Figure 2-5: Typical ceiling at lower level interior office

Architectural Assessment Observation Reports		
Item No.	Description	Rating
B291 A 001	Site	1.3
B291 A 002	Building Interior – Lower Level	1.1
B291 A 003	Building Interior – Upper Level	1.1
B291 A 004	Building Roof	2.5
Condition Rating Guide		Overall Average: 1.5
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

C. Structural Systems

As already mentioned in this study, the building shell consists of reinforced concrete and CMU with coated plaster walls with a painted finish. The lower level is constructed of a reinforced structural concrete slab while the second level is a concrete slab on metal deck supported by steel joists that are bearing on reinforced CMU walls. The roof is also constructed of metal deck panels with an asphaltic 4-ply roof system.

Site Structural: There are several exterior structures associated with Building 291. A parking canopy located on the south side of the facility appears to be in good condition with no visible deficiencies. Secondary structures such as the guardhouse (Building B289), and the Mechanical / HVAC facility (Building B31291) are in poor condition. Various miscellaneous concrete slabs that once provided foundations for equipment surrounding the facility appear to be in good



Figure 2-6: Exterior view from the southeast

condition, although no apparent use or need has been determined. No observations reflect any movement of soils or compromised retaining structures. Many of the paved areas surrounding the facility are asphalt, which show signs of deterioration and cracks where vegetation is apparent.

CMU and Concrete Walls: The walls along the perimeter and interior of the facility appear to be in good condition. No cracks occurring along the courses of the masonry units were observed. In the visual observations performed, the rodent infestation that has occurred was not determined to have been caused due to any failure of the wall systems.

Steel Joists and Metal Decks: Ceiling tiles were removed in certain locations to observe the condition of the metal decks and steel joists supporting the 1st level floor and roof systems. From the visual inspections obtained, both the steel joists and metal deck systems appear to be in good condition. However, visual inspection of the ceiling of the mechanical room indicates deterioration of the metal deck, possibly due to water infiltration. Due to the extensive penetrations, the roof of the mechanical room may have deterioration. The signs of water infiltration are apparent and roof replacement will likely need to occur in this area for the purposes of mechanical and electrical equipment.

Structural Assessment Observation Reports		
Item No.	Description	Rating
B291 S 001	Building Exterior	2.9
B291 S 002	Building Interior – Lower Level	2.8
B291 S 003	Building Interior – Upper Level	2.3
Condition Rating Guide		Overall Average: 2.7
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

D. Mechanical Systems

The mechanical systems for the facility were designed to be self sustaining, and use a chilled water system for cooling and a steam circulation system for heating. Heat was produced by a fuel oil system as a heating source separated in three zones (A, B, and C). Two primary Air Handling Units (AHU) and Fan Coil Units (FCU) with an insulated ductwork system are located in the corridors and provided air circulation throughout the facility. Various exhaust fan systems were installed throughout the facility, providing restroom, kitchen, and mechanical room exhaust. A make-up air unit provides outside air for the kitchen facilities. Various upgrades to the mechanical system were made between 1969 and 1990.

Chilled Water System: The principal components of the chilled water system are the air cooled chiller (compressor, condenser, expansion valve, evaporator), and the chilled water pumps and pipes. The components of this unused closed circulation system show physical signs of deterioration. This contributes to impaired efficient operation of the system. Physical damage to the chiller include missing and bare wiring, deteriorating insulation, corrosion, microbiological growth from rodent droppings, and rust in the system. Corrosion results in metal loss, making the system susceptible to contaminants such as air and moisture that are introduced through crevices.



Figure 2-7: Mechanical room at lower level

Steam System: The heating system used is a two (2) oil-fired boiler system added during a late 1990s renovation. This system is composed of a heat producing source, a boiler, heat exchange, a distribution system, condensate pumps, pipes, burner by-products elimination system, and control mechanisms (such as the thermostat and master switch). The boiler, originally installed in the 1960s, is located in the basement and has been decommissioned. The facility's steam system is made up of steam distribution piping, steam traps, tracer lines, condensate piping, vents, inlet valves and condensate pumps. The system has been inactive for an extended period of time with water in the system and shows signs of corrosion and rust.

AHU, Fan Coil Units and Ductwork: AHU and associated fan coil units, ductwork, and grilles show signs of deterioration and contamination. Visual inspection indicates excessive particulate debris and microbiological growth contamination on exterior and interior surfaces of the supply ducts and all associated components, as well as deteriorated insulation within the supply system. The sources of these particulate contaminations and microbiological proliferations are mold and rodent droppings. Corrosion was also identified on AHU units and Fan Coil Units.

Fan Systems: The fan system consists of return air circulation, exhaust air, filter, and fresh air intake. Equipment deterioration due to rust on shaft and lack of regular maintenance is evident.

Mechanical Assessment Observation Reports		
Item No.	Description	Rating
B291 M 001	Chilled Water System	1.0
B291 M 002	Hot Water System	1.0
B291 M 003	AHU, Fan Coil Units and Ductwork	0.6
B291 M 004	Fan Systems	1.0
Condition Rating Guide		Overall Average: 0.9
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

E. Plumbing Systems

The plumbing systems for the facility were primarily designed to provide domestic hot and cold water to restroom and kitchen areas. A 4” main water service line supplied water to the facility and an 8” sewer line provided sewage disposal. Domestic use hot water was circulated within the facility by a hot water pump produced by a 650 gallon hot water heater supplied by a fuel oil system. The water service for the facility also provided water for various wall hydrants located on the exterior of the building. Various upgrades to the plumbing system were made between 1969 and 1990.

Domestic Water System: The water system is comprised of copper and galvanized piping. The expected life of galvanized pipe is 40 years because corrosion will occur in the pipe where holes are difficult to locate and service. During the visual inspection, no sign of water damage to the walls was found.



Figure 2-8: Rodent infestation at Men’s restroom

Plumbing Fixtures: All observed plumbing fixtures in the facility remain mounted and in the locations originally designed. Fixtures located in the restroom areas include: water closets, urinals, lavatories, and showers. Other areas, such as janitor closets, include service sinks. The restroom areas are heavily infested with rodent droppings. Some are located in the water closets indicating infiltration may be occurring from sewer line access. The fixtures do not comply with present day ADA standards.

Piping: As-Built drawings indicate cast iron piping and lead oakum joints were used throughout the facility. Lead piping is no longer prohibited under current plumbing codes and can be used for waste purposes for piping located in concrete which is not subject to vibration. All other piping providing water supply should be replaced.

Plumbing Assessment Observation Reports		
Item No.	Description	Rating
B291 P 001	Domestic Water System	0.0
B291 P 002	Plumbing Fixtures	1.2
B291 P 003	Piping	0.6
Condition Rating Guide		Overall Average: 0.6
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

F. Electrical Systems / Fire Alarm Systems

The facility is served by utilizing a simple radial power distribution system. Service power at 120/208V is fed to the building from an outdoor, oil-filled, pad-mounted transformer. The building has two service disconnects; a weather proof switch serving the outside Chiller unit, and a Seven (7) breaker Main Lug Only 1200A main distribution panelboard serving the remaining loads. The 1200A main distribution panelboard is located in the basement Mechanical Room. Also, there is a 400A distribution panelboard serving approximately twelve (12) 100A, 3phase branch circuit panelboards and about the same amount of fractional horse power motor controllers. The branch circuit panelboards are recessed mounted in the corridors throughout the building.

Outdoor Pad Mounted Transformers: The transformers throughout appear to be in working condition and of recent vintage. Oil filled transformers may last over 50 years, with proper maintenance. Therefore, they may continue serving this building or returned to the Owner upon demolition.

Main Switchgear, Controls, Disconnect Switches: Most of this equipment seems to be of original 1950s vintage. Generally, these are at end of life condition. Some of the breakers display water intrusion damage. For reliability and life safety reasons, this equipment should be demolished. Associated electrical wiring and conduits can be recycled.



Figure 2-9: Main electrical panel at mechanical room

Distribution and Branch Circuit Panelboards: Most of this equipment seems to be of original 1950s vintage. Generally, these are at end of life condition. For reliability and life safety reason this equipment should be demolished. Potentially, the branch panel recessed steel enclosures in the corridor walls could be reused if convenient. Associated electrical wiring and conduits can be recycled.

Lighting Systems: Most of this equipment seems to be a mix of original and 1970s vintage. Generally, these are all obsolete lighting systems and are in end of life condition. The fixtures are a mix of T12 fluorescent and incandescent. Most of the lighting fixtures exhibit some damage or extreme signs of wear inclusive of yellowing, broken lenses, faulty wiring/ ballast, and insect intrusion. For reliability, aesthetic, and energy conservation reasons, this equipment should be demolished. The steel housings can be recycled.

Emergency Lighting Systems: Most of this equipment seems to be of 1960-70s vintage. Generally, these are in end of life condition. The bulbs, batteries, and controls may be compromised. The equipment design aesthetics will not fit well into a renovation project. The fixtures are a mix of early LED technology, Exit Signs and incandescent Emergency Lighting Units are of different makes and models. For reliability, aesthetic, and life safety reasons this equipment should be demolished. The steel housings and batteries should be recycled.

Fire Alarm System: This system is controlled by a four (4) zone Fire-Lite MS-4424 Fire Alarm Control Panel (FACP) that appears to have been installed in the 1990s. This panel may still be in working condition, but this could not be confirmed during the site assessment. In addition, a Monaco Enterprises BT2-7 Fire Radio Transmitter seems to be connected to the FACP for Base Fire Department monitoring. The system seems to be fitted with heat detectors in most of the corridors and many of the rooms. Considering the age and condition, all of the heat detectors are in end of life condition and should be removed. The Monaco brand radio transmitter is a high cost device that could remain or be re-used at another location. The FACP could be re-used for limited fire protection, if the building undergoes selective demolition. However, new addressable fire alarm/mass notification system with smoke detectors and visual devices and speakers, should be installed as part of any occupied renovation project.

Electrical Assessment Observation Reports		
Item No.	Description	Rating
B291 E 001	Electrical Service	2.0
B291 E 002	Electrical Distribution, Power and Lighting	1.6
B291 E 003	Distribution and Branch Circuit Panelboards	1.7
B291 F 001	Fire Alarm System	1.6
Condition Rating Guide		Overall Average: 1.7
3	Good Condition	
2	Average Condition	
1	Poor Condition	
0	Failed Condition	

3 OPINIONS OF PROBABLE COST

The figures presented in the subsequent pages of this study have been categorized by specific elements based on the recommendations of demolition and repair quantities presented in this study and from data obtained from the original construction documents of the facility. These figures do not take into account credit from recycled materials.

The opinion of probable project cost provided herein is made on the basis of information available and represents the judgments and experience of a professional cost estimator. However, the estimator has no control over the cost of labor, materials, equipment, or services furnished by others, or over other market conditions, or over the methodology used by bidding contractors. The estimates presented herein were developed in collaboration with CHQSA and Industrial Hygiene Resources, both located in Boise, Idaho, were based on construction costs in the Boise, Idaho region and do not guarantee that proposals, or bids for construction will not vary from the opinion of probable cost.

A. Selective Demolition

The cost estimate for selective demolition has been based on removal of specific architectural and MEP systems presented in this study. Please refer to cost estimate for specific information related to systems and quantities included in the subsequent pages of this section and available if viewed electronically via hyperlink: [MHAFB BLDG 291 Selective Demolition OOPC](#)

Site	\$ 230,075.80
<u>Facility</u>	<u>\$ 790,271.20</u>
Total Cost	\$ 1,020,347.00*

* Includes hazardous materials abatement costs estimate

B. Complete Demolition

The cost estimate for complete demolition has been based on construction documents and specifications dated Dec 2012 by CH2M HILL. Please refer to cost estimate for specific information related to systems and quantities included in the subsequent pages of this section and available if viewed electronically via hyperlink: [MHAFB BLDG 291 Complete Demolition OOPC](#)

Total Cost	\$1,612,825.94*
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* Includes hazardous materials abatement costs estimate

C. Environmental

The cost estimate for hazardous materials abatement has been prepared based on information obtained, in part, from sampling report entitled “95% Environmental Sampling Report Building 291” dated December 2012 and produced by CH2M HILL. Please refer to cost estimate for specific information related to systems and quantities included in the subsequent pages of this section and available if viewed electronically via hyperlink:

[MHAFB-BLDG 291 Environmental Cost Estimates](#)

D. New Facility Cost

The cost estimate for a facility of similar size and cost has been based on RS Means (Reed Construction Data) model criteria as noted below. Please note these estimates are based on general construction cost guidelines.

Model: Dormitory with Stucco on Concrete Block / Bearing Walls

[B291 - Dormitory SquareFootReport](#)

Location: BOISE, ID

Stories (Ea.): 1

Story Height: 12

Floor Area: 33,000

Basement: Yes

Cost per S.F.: \$159.13

Building Cost. \$5,251,500.00

Model: Warehouse

[B291 - Warehouse SquareFootReport](#)

Location: BOISE, ID

Stories (Ea.): 1

Story Height: 12

Floor Area: 33,000

Basement: Yes

Cost per S.F. \$97.68

Building Cost. \$3,223,500.00

4 CONCLUSIONS AND RECOMMENDATIONS

A. Conclusions

There are several factors that have contributed to the current condition of the facility. In addition to age, major contributors include lack of maintenance, security measures, and environmental hazards. This study concludes that the facility is in good structural condition but does require extensive interior renovations to be of future use. Most of the deterioration of the facility is within its interior although exterior elements show signs of deterioration due to age. Any demolition or renovation work attempted will require abatement and remediation of the environmental and biological conditions identified in this study.

Environmental: The facility poses a hazardous working environment. Any future occupancy will require removal of hazardous biological contaminants and abatement of asbestos containing building materials. The indoor air quality of the facility is poor and a preoccupancy air purge should be considered which involves ventilation preceding occupancy for variable-occupancy spaces to assure that the indoor air is acceptable by the time occupancy begins. Workers who are either hired specifically to perform a clean-up or are asked to do so as part of their work activities should contact their local or state health department, local or state occupational health and safety authority (OSHA), or CDC for information about preventing rodent-borne diseases.

Architectural Systems: The exterior aspects of the facility have deteriorated due to lack of maintenance. Many aspects of the facility inclusive of landscaping, paint, flashing, and security are in need of renovation should occupancy or future use be considered. The interior remaining finishes, furniture, and other materials that are deteriorating and serving as a food source and nesting material to the heavy rodent infestation are of no future value and should be removed. Procedures for removal of contaminants from stationary local sources within the space should be controlled by collection and removal as close to the source as practical and as indicated in ASHRAE 62-2001. The mechanical room roof should be removed in order to allow removal of mechanical and electrical equipment. The ceiling exhibited signs of deterioration due to water infiltration at locations of penetrations. These may also contain asbestos.

Structural Systems: The facility does not exhibit any movement of soil, cracks on exterior or interiors walls, or other structural deficiencies in relation to the steel structure. This indicates the structure is in good condition. It should be noted that asbestos was used as fiber reinforcement in concrete in the early part of the 1900s to reduce likeliness of cracks. Although no destructive construction material testing was performed during this study, it should be noted that demolition of the concrete structure should be performed under EPA guidelines found in NESHAP guidelines (Section 1 – Demolition practices and non-friable materials) EPA NESHAP – Sec 1. The mechanical room roof should be removed in order to allow removal of mechanical and electrical equipment in mechanical room. The steel joist members and connections should be inspected prior to reinstallation. Due to the amount of penetrations in this area of the building, it is recommended the metal deck roof be replaced.

Mechanical Systems: The HVAC systems in the facility have reached the end of their life cycle. The rodent infestation, in addition to the deterioration of insulated materials, indicate many of these systems are sources of contaminants and will require removal should any future occupancy be considered.

Electrical Systems: Most of the power and lighting systems in the facility have reached the end of their life cycle. Cost factors such as low energy efficiency standards, limited replacement parts, and reliability indicate these should be removed and replaced with new updated systems if future occupancy is considered.

Plumbing Systems: Many of the plumbing fixtures associated with the facility appear to be intact; however, cost factors of reconditioning, sanitizing, low efficiency standards, and possible lack of immediate availability of replacement parts indicate these should be removed and replaced with new fixtures if future occupancy is considered.

B. Recommendations

Several factors have been used to explore the potential future use of Ready Alert Building 291. Of these factors, considerations have been given to:

- Cost Effectiveness
- Code Compliance Updates
- Life Safety Issues
- Life Cycle Future Usefulness

The facility has experienced extensive deterioration of its architectural and MEP systems, however, the facility shows no signs of structural deficiency. It does contain serious environmental and biological contaminants that would require remediation should any demolition or occupation be considered. The alternatives explored are:

1. Selective Demolition – removal of specific building systems contributing to deterioration or of no future use.

- Abatement and remediation of all environmental and biological contaminants
- Interior Architectural finishes inclusive of ceilings, flooring, wall coverings, furnishings, and miscellaneous items.
- Demolition of some adjacent site structures
- Existing Mechanical and Plumbing Systems
- Existing Electrical Systems

2. Complete Demolition – demolition of complete facility including utilities, and adjacent structures

- Abatement and remediation of all environmental and biological contaminants
- Demolition of all existing elements associated with building
- Return of land to existing undisturbed conditions

In consideration of the cost implications of demolition and a new facility of similar construction; It is recommended the facility undergo a **selective demolition** to bring the facility to a building shell tenant finish out condition that would enable the owner to use the facility in the future for a broad range of uses. Specific design measures would need to be implemented so that no further deterioration takes place in the facility. These measures will preserve the integrity of the structure. These measures have been provided in form of design narratives included in this section of this study.

C. Design Narrative

Purpose: The following will provide a preliminary description of system implementation for the facility to preserve the integrity of the structure. The Engineered systems are described as follows:

GENERAL SCOPE OF WORK

1. Site: Grounds surrounding the facility should be routinely maintained to eliminate overgrowth and deterioration of facility from vegetation.
2. Building Envelope: Maintaining a secure and waterproof envelope will be required to preserve the integrity of the facility. All access doorways, walkways and/or other exterior means of access should be secured with the installation of new hardware and security measures. All roof and wall penetrations should be properly sealed against weather or wildlife infiltration. Exterior wall paint and roof membrane should be inspected for signs of deterioration and patched accordingly.
3. Building Interior: Relatively no maintenance should be required for the interior of the facility upon implementation of the recommended MEP systems.
4. Mechanical Room:

MECHANICAL SCOPE OF WORK

1. HVAC Systems: Maintaining a level of HVAC in the building will be required to preserve the integrity of the building. The fluctuation of temperatures in should not have an adverse impact on the build, which would consist of steel and concrete. The absence of interior finishes and plumbing fixtures will allow this variation in temperature with minimal adverse consequences. The building will require a degree of ventilation to provide control of the potential buildup of moisture in the building due to condensation. If the condensation and interior moisture condition are not controlled the building could be an ideal location for mold. This can be achieved by providing approximately 20 cfm air circulation per 1000 sq ft of building area. Care must be provided to not create areas within the building of stale air. The building should be "sealed" with fresh air forced into the building at various locations and allowed the escape through fine screens at specific locations.

ELECTRICAL SCOPE OF WORK

1. Electrical Systems: A small 225A distribution system would serve the required mechanical ventilation, lighting and convenience power. A new 225A panelboard would be installed at the main mechanical room, served thru a tap from the existing service wiring. A 100A panelboard would be installed at a centric location on ground level. Branch circuits from these panelboards shall serve the ventilation fan motors, lighting fixtures and convenience power receptacles.

2. Lighting: The lighting fixtures would be industrial type energy efficient fluorescent, controlled by occupancy sensors. These would be evenly installed throughout the space, and in sufficient amount, as needed to provide at least 10 foot-candles (average) of light intensity for general orientation. About 5% of the fixtures shall have emergency battery packs to provide life safety lighting in case of a power outage. Also, LED Exit signs, with emergency battery packs, would be installed as needed to cover the egress paths.
3. Fire Alarm / Security: The existing zoned Fire Alarm Control Panel would be refurbished with new batteries and tested for operation. All the smoke/ heat detectors would be replaced by new units. All wiring would be tested for open or short circuits and repaired/replaced as needed. The detectors would be located following NFPA guidelines. The existing Fire Alarm Radio Transmitter would be refurbished with new batteries and tested as well. The existing Visual and Manual devices would be tested and fixed as needed. New devices would be added, as needed to cover the facility per NFPA requirements.

PLUMBING SCOPE OF WORK

1. Domestic Water: All of the existing hot and cold domestic plumbing pipes should be removed, except for the pipes in the concrete foundation. These should have the ends opened, flushed, and then filled with a flow-able fill or grout material. This will reduce the potential of use in the future. These existing lines have a high probability of contamination and therefore should not be used. The presence of grout or other material will prevent these lines from being inadvertently used in the future.
2. Sanitary Sewer: All of the existing sanitary sewer pipes should be removed, except for the pipes in the concrete foundation. These should have the ends opened, flushed and then plugged with a removable plug. This will allow the existing sewer lines to be used in the future and potentially reduce the construction cost. These sewer lines terminate in the sanitary sewer wet well in the lower level mechanical room. The discharge pipes of the existing sewer lift station should also be purged and plugged.

5 Appendices

A. Environmental Sampling Report

The following link provides electronic access to the Environmental Sampling Report dated December 2012 and provided by CH2M HILL. [B291 – Environmental Sampling Report](#)

B. Environmental Protection Agency (EPA) Demolition Practices - NESHAP

The following link provides electronic access to the Demolition Practices Under Asbestos document dated 11/20/1990 and provided by the EPA. [B291 – Demolition Practices Under Asbestos](#)

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APPENDIX C – INTERGOVERNMENTAL COORDINATION

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**DEPARTMENT OF THE AIR FORCE
366TH CIVIL ENGINEER SQUADRON (ACC)
MOUNTAIN HOME AIR FORCE BASE IDAHO**

[See distribution list attached]

14 March 2016

Dear Sir or Madam:

The 366th Fighter Wing (FW) at Mountain Home Air Force Base (AFB), Idaho is preparing an Environmental Assessment (EA) addressing potential environmental impacts from reuse options for the Alert Complex at Mountain Home AFB, Elmore County (near Mountain Home), Idaho (Figure 1). The environmental impact analysis process for this EA is being conducted by the Air Force Civil Engineer Center and 366 FW in accordance with Council on Environmental Quality regulations pursuant to the requirements of the National Environmental Policy Act (NEPA) of 1969.

The Alert Complex was constructed between 1957 and 1960 under the Strategic Air Command during the Cold War and is a National Register of Historic Places -eligible facility. The purpose of this EA is to determine the most appropriate end state of the former Alert Complex (comprised of Building 291 and approximately 103-acres adjacent) while considering both the Sustainable Installations and Air Force 20/20 by 2020 memorandum calling for reduction and consolidation of United States Air Force's real property, and Executive Order (EO) 13287: Preserve America which serves to protect cultural resources. This evaluation is needed in order to most efficiently utilize available resources at Mountain Home AFB, while also protecting valuable historic properties.

Although six alternatives were initially considered for future use of the Alert Complex only one met all of the selection standards. Under this alternative (i.e. the Proposed Action), Building 291 and the accompanying 103 acres comprising the Alert Complex would be utilized for various training scenarios. Currently, the 366th Civil Engineer Squadron (CES) Readiness and Emergency Management Flight and the 366th FW are interested in utilizing the facility for training and Building 291 would be renovated such that it could be used to support training operations. The proposed EA analyzes the potential environmental effects at Mountain Home AFB associated with the Alert Complex renovation and its use for training. A 'No-action Alternative' is also examined for this action.

In accordance with EO 12372, Intergovernmental Review of Federal Programs, we request your participation in the NEPA process by providing comments on the Proposed Action and any potential environmental consequences that might concern you. To facilitate cumulative impact analysis, we would also appreciate identification of major projects in the vicinity that may contribute to cumulative effects. Please provide written comments or information at your earliest convenience but no later than 30 days from the date of this letter. We have also attached a listing of federal, state, and local agencies that have been contacted. If there are additional agencies that you feel should review and comment on the proposed activities, please include them in your distribution of this letter and the attachments. Upon request, we will mail a copy of the public draft

EA when complete and the proposed Finding of No Significant Impact, if applicable, for your review.

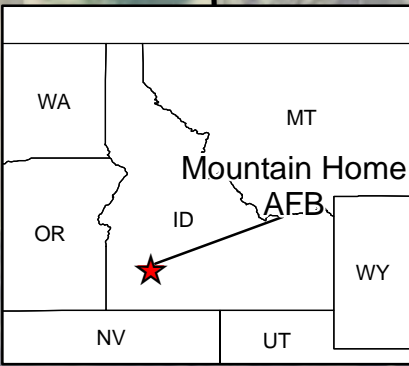
Please address your questions or comments on this proposed action by mail to Ms. Sheri Robertson (Chief, Environmental Management), 366 CES/CEIE, 1030 Liberator Street, Mountain Home AFB, Idaho 83648.

Sincerely,

Sheri Robertson
Chief, Environmental Management




2 Attachments:


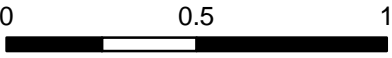
1. Figure 1 – Site Vicinity Map
2. Distribution List



Key Map

Legend

-  Installation Boundary
-  Building 291
-  Building 291 Historic Site

0 0.5 1
Miles

Figure 1
Site Vicinity Map
Mountain Home Air Force Base
Mountain Home, Idaho

ADAPTIVE REUSE POTENTIAL OF BUILDING 291 AT MOUNTAIN HOME AFB
ENVIRONMENTAL ASSESSMENT
DISTRIBUTION LIST

The Honorable C.L. Otter
Governor of Idaho
P.O. Box 83720
Boise, Idaho 83720

The Honorable James Risch
United States Senator
350 N. 9th Street, Suite 302
Boise, Idaho 83702

The Honorable Michael Crapo
United States Senator
251 East Front Street, Suite 205
Boise, Idaho 83702

The Honorable Mike Simpson
U.S. House of Representatives
802 West Bannock, Suite 600
Boise, Idaho 83702

The Honorable Raul Labrador
U.S. House of Representatives
33 East Broadway Avenue, Suite 251
Meridian, Idaho 83642

Col. Billy F. Richey, USAF Retired
Special Assistant, Military Affairs
150 South 3rd Street East
Mountain Home, Idaho 83647

The Honorable Lori Den Hartog
Idaho Senator, District 22
P.O. Box 267
Meridian, Idaho 83680

The Honorable Bert Brackett
Idaho Senator, District 23
48331 Three Creek Highway
Rogerson, Idaho 83302

The Honorable John Vander Woude
Idaho House of Representatives
5311 Ridgewood Road
Nampa, Idaho 83687

The Honorable Jason A. Monks
Idaho House of Representatives
1002 West Washington Drive
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The Honorable Richard Wills
Idaho House of Representatives
P.O. Box 602
Glenns Ferry, Idaho 83623

The Honorable Pete Nielsen
Idaho House of Representatives
4303 Southwest Easy Street
Mountain Home, Idaho 83647

The Honorable Rich Sykes
Mayor of Mountain Home
160 South 3rd East
Mountain Home, Idaho 83647

The Honorable David H. Bieter
Mayor of Boise
150 North Capitol Boulevard
Boise, Idaho 83702

The Honorable Shawn Barigar
Mayor of Twin Falls
P.O. Box 1907
Twin Falls, Idaho 83303

The Honorable Franklin D. Hart
Mayor of Grand View
P.O. Box 69
Grand View, Idaho 83624

Mountain Home City Council
160 South 3rd East
Mountain Home, Idaho 83647

Mr. Wes Wootan
Elmore County Commission
150 South 4th East
Mountain Home, Idaho 83647

Mr. Bud Corbus
Elmore County Commission
150 South 4th East
Mountain Home, Idaho 83647

Mr. Al Hofer
Elmore County Commission
150 South 4th East
Mountain Home, Idaho 83647

Mountain Home
Chamber of Commerce
205 North 3rd East
Mountain Home, Idaho 83647

Twin Falls
Chamber of Commerce
2015 Neilsen Point Place, Suite 100
Twin Falls, Idaho 83301-4071

Boise Metro
Chamber of Commerce
P.O. Box 2368
Boise, Idaho 83701

Mr. Virgil Moore
Idaho Fish and Game
P.O. Box 25
Boise, Idaho 83707

Mr. Daryl Meints
Idaho Fish and Game
324 South 417 East, Suite #1
Jerome, Idaho 83338

U.S. Fish and Wildlife Service
Idaho Fish and Wildlife Office
1387 S. Vinnell Way, Suite 368
Boise, Idaho 83709-1657

ADAPTIVE REUSE POTENTIAL OF BUILDING 291 AT MOUNTAIN HOME AFB
ENVIRONMENTAL ASSESSMENT
DISTRIBUTION LIST

Advisory Council on Historic
Preservation
Attn: Katharine Kerr
401 F Street NW, Suite 308
Washington, DC 20001-2637

National Trust for Historic
Preservation
The Watergate Office Building
2600 Virginia Avenue NW
Suite 1100
Washington, DC 20037

Warhawk Air Museum
John R. Paul, President
201 Municipal Drive
Nampa, Idaho 83687

Preservation Idaho
The Idaho Historic Preservation
Council
P.O. Box 1495
Boise, Idaho 83701

National Trust for Historic
Preservation
Western Field Services
c/o Sherri Freemuth
1420 Ogden Street, Suite 203
Denver, Colorado 80218

Idaho Professional Archaeological
Council
967 E. Parkcenter Blvd. # 183
Boise, Idaho 83706

University of Idaho
College of Art and Architecture
Attn: Randall Teal
875 Perimeter Drive MS 2461
Moscow, Idaho 83844

American Legion Auxiliary Unit 26
515 East 2nd South
Mountain Home, Idaho 83647

Veterans of Foreign Wars
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Weitze Research
708 Bristol Avenue
Stockton, California 95204

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Karen Weitze
P.O. Box 77770
Stockton, CA 95267

7 April 2016

Sheri Robertson
Chief, Environmental Management
366 CES/CEIE
1030 Liberator Street
Mountain Home AFB, Idaho 83648

Dear Ms. Robertson,

In response to your request for comments or questions regarding the Proposed Action for the Strategic Air Command (SAC) Alert Complex (Building 291 and adjacent 103 acres), I offer the following information.

As conveyed in your letter of 3 March 2016, the Proposed Action for the Alert Complex and its bounded acreage (as depicted on Figures 1 and 2) is interpreted as thoughtful and appropriate for the National Register-eligible property. I fully support the Proposed Action, with several minor questions.

- 1) Was any consideration given to the full lengths of the taxiways as they extend from the eastern termini of the two linear configurations of stubbed alert parking pads (aircraft staging areas) to the end of the primary runway? As shown on Figures 1 and 2, the boundaries of the site end to the immediate west of the molehole (Building 291), running across the two aircraft staging areas prior to their merger with the alert aircraft taxiways that complete the layout. The site boundary as proposed is acceptable, but maintenance of the full lengths of the alert aircraft taxiways connecting the aircraft staging areas (stubbed alert parking pads) to the main runway better represents the historic mission of the SAC alert area. The two alert aircraft taxiways could be sustained without enlarging the site boundary (that is, could be stated as remaining in place).
- 2) Mention is made of an “exterior berm” in the Alert Complex area in the discussion under the No-Action Alternative. An “exterior berm” is not called out in the Proposed Action. Is this feature part of the original SAC alert area? If so, does the Proposed Action include keeping this feature, or removing it? If the berm is a later feature, perhaps it should also be mentioned (what it is, when it was added at the site) under the Proposed Action, along with Air Force intentions for its future disposition.

- 3) In discussing possible future actions for the molehole (Building 291), the Proposed Action notes that its “roof configuration would remain in its current form and in-kind materials would be used for replacing the existing roof.” Maintaining the profile and minimal detailing of the roof is important, including the fascia boards as they are in materials, proportions (width and depth), and color scheme. Using in-kind materials for replacing the roof itself is also often overlooked. Oversized roofs with out-of-scale overhangs are often added to facilities of this period, sometimes brightly colored for overhead recognition. This type of treatment would be inappropriate for the SAC alert complex.

Other modifications to Building 291 under the Proposed Action should be accomplished as unobtrusively as possible. As noted, maintenance of the original taxiways, aprons and aircraft parking stubs is central to the integrity of the SAC Alert Complex, as is an unchanged exterior appearance for the egress tunnels and ramps.

In 2010, approximately 28 installations under the jurisdiction of the Department of Defense (DoD) included a SAC alert complex within its boundaries. This comparison pool is about 43% of the original group of such complexes (65 constructed between 1957 and 1960 in the continental U.S., eastern Canada and Puerto Rico). The primary facility of the SAC alert complex, its molehole (such as Building 291), is often heavily altered, or demolished, and can be anticipated to be a rare survivor at this type of historic site in the decades ahead. Within the DoD, 10 or fewer SAC moleholes were intact on their exteriors in 2010, and within this group about seven also continued to have an unaltered, stubbed aircraft parking apron. Within the subset that featured both an intact molehole and stubbed aircraft parking apron, perhaps three exist today of the largest type (150- or 100-man), including the SAC Alert Complex at Mountain Home AFB. The remaining moleholes are each a 70-man facility, the smallest configuration for SAC alert. These combined circumstances make the SAC Alert Complex at Mountain Home the single best, classic example representing the historic SAC alert mission of the Cold War. Contributing to importance of the SAC Alert Complex at Mountain Home is the base’s participation in the early evaluation of the SAC alert concept during 1956-1957. SAC conducted these test exercises as Operation Try Out at Hunter AFB in Georgia (1956), Operation Watch Tower at Little Rock AFB in Arkansas (1957) and Operation Fresh Approach at Mountain Home (1957). The 150- and 100-man moleholes at Hunter (now on Fort Stewart) and Little Rock are heavily altered today. Aspects of the SAC alert mission that further support the significance of the SAC Alert Complex at Mountain Home are base location in the northern U.S., the presence of a SAC Special Storage Site, a role as a SAC dispersal base, and mission longevity.

Thank you for the opportunity to participate in the EA process for the Alert Complex.

Regards,

Karen J. Weitze
Historian, PhD
Research Associate, Air Force Historical Research Agency, Maxwell AFB