

## Summary of Scenario Environmental Impacts - Criterion 8

Scenario ID#: USAF0056V2 (137.3c1)

Brief Description: Realign Eielson AFB, AK

<u>General Environmental Impacts</u>	
Environmental Resource Area	Eielson (Losing)
<b>Air Quality</b>	No impact
<b>Cultural/ Archeological/ Tribal Resources</b>	The base has a 582-acre historic district with 21 contributing resources.
<b>Dredging</b>	No impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	No impact
<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact
<b>Noise</b>	No impact
<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	No impact
<b>Waste Management</b>	No impact
<b>Water Resources</b>	No impact
<b>Wetlands</b>	No impact

<u>Impacts of Costs</u>	
	Eielson (Losing)
<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 57,367 Estimated CTC (\$K): 8,600 DO NOT ENTER IN COBRA
<b>Waste Management</b>	No impact
<b>Environmental Compliance</b>	No impact

<b><u>General Environmental Impacts</u></b>	
<b>Environmental Resource Area</b>	<b>Barksdale (Gaining)</b>
<b>Air Quality</b>	No impact
<b>Cultural/ Archeological/ Tribal Resources</b>	18 possible archaeological sites are present, but do not restrict operations. A native American tribe rarely interacts with the installation regarding archaeological and burial sites. 1 historic district is present encompassing 230 acres. Additional operations may impact these cultural resources and restrict operations.
<b>Dredging</b>	No impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	The base identified three altered, modified or rerouted ground operations restrictions. Military Munitions Response Program sites exist on the installation and may represent a safety hazard for future development. The base uses safety waivers and exemptions to accomplish the mission. Additional operations may compound the need for safety waivers.
<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact
<b>Noise</b>	Less than a 3dB general increase in contours can be expected. The AICUZ and JLUS reflect the current mission, local land use, and current noise levels. 35,343 acres off-base within the noise contours are zoned by the local community. 3,194 of these acres are residentially zoned. The community has not purchased easements for area surrounding the installation.
<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	T&E species and/or critical habitats exist and impact operations. Additional operations may further impact T&E species and/or critical habitats.
<b>Waste Management</b>	No impact
<b>Water Resources</b>	No impact
<b>Wetlands</b>	Wetlands restrict 7% of the base. Wetlands do not currently restrict operations. Additional operations may impact wetlands, which may restrict operations.

<b><u>Impacts of Costs</u></b>	
	<b>Barksdale (Gaining)</b>

<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 15,590 Estimated CTC (\$K): 38,442 DO NOT ENTER IN COBRA
<b>Waste Management</b>	No impact
<b>Environmental Compliance</b>	FY06 NEPA cost: Scenario \$94K / Cumulative \$281K

<b><u>General Environmental Impacts</u></b>	
<b>Environmental Resource Area</b>	<b>Moody (Gaining)</b>
<b>Air Quality</b>	An air permit revision may be needed. A critical air quality region, Okefenokee Nat'l Wildlife Refuge is located within 100 miles of the base; however, this does not constrain operations.
<b>Cultural/ Archeological/ Tribal Resources</b>	The installation contains 65 archaeological sites; 6 constrain current construction, future construction, and training/testing operations by requiring pre-impact consultation. The base has been in formal consultation with 10 Native American tribes who are interested archaeological sites. One historic property is present. Additional operations may impact these sites/properties, which may constrain operations.
<b>Dredging</b>	No impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	Operations are already restricted because of non-DoD laws, regulations, or policies at the main installation and the training range. Two acres and groundwater have been restricted because of the Burma Road Landfill, which has a benzene groundwater plume that is located within 0.038 miles of the installation. Two sensitive resource areas are present; one, the Banks Lake National Wildlife Refuge restricts base and range ops by requiring an altitude above the refuge of at least 1,500 ft AGL. Additional operations may further impact these constraining factors and therefore further restrict operations.
<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact

<b>Noise</b>	Noise contours will need to be re-evaluated as a result of the change in mission. Noise abatement procedures are already in place. The AICUZ reflects the current mission/local land use/current noise levels, and has been adopted for local land use planning. 12,127 acres off-base within the noise contours are zoned by the local community. 96 of these acres are residentially zoned. The community has not purchased easements for the area surrounding the installation.
<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	One T&E species on the main installation and one T&E species on the range already restrict operations. In addition, two Biological Opinions are in place for the Gulf of Mexico water training area (marine turtles) and Bemiss Field/C-130 Drop Zone (eastern indigo snake). Additional operations may impact T&E species. In addition, the Biological Opinions will need to be evaluated to ensure the scenario conforms to them.
<b>Waste Management</b>	Modification of the hazardous waste program may be required.
<b>Water Resources</b>	The state requires a permit for withdrawal of groundwater. Modification of on-installation treatment works may be necessary.
<b>Wetlands</b>	Wetlands restrict 31% of the base and 43% of the range. Wetlands already restrict construction operations. Additional operations may impact wetlands, which may restrict operations.

<b><u>Impacts of Costs</u></b>	
	<b>Moody (Gaining)</b>
<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 42,962 Estimated CTC (\$K): 50,384 DO NOT ENTER IN COBRA
<b>Waste Management</b>	FY07 Hazardous Waste Program Modification: Scenario \$100K / Cumulative \$100K
<b>Environmental Compliance</b>	FY06 NEPA cost: Scenario \$193K / Cumulative \$776K FY07 Significant Air Permit Revision: Scenario \$100K / Cumulative \$100K

<b><u>General Environmental Impacts</u></b>	
<b>Environmental Resource Area</b>	<b>Nellis (Gaining)</b>
<b>Air Quality</b>	A preliminary conformity analysis shows that a conformity determination may be required. A more in-depth review is

	required. The inability to achieve a positive conformity determination may be a constraint to this scenario. Air emission offsets may be required. The installation is located within 100 miles of the Grand Canyon, a critical air quality region. This causes no air quality restrictions. A significant air permit revision may be necessary.
<b>Cultural/ Archeological/ Tribal Resources</b>	Sites or areas with high potential for archeological sites were identified. The base is currently in formal consultation with 16 Native American Tribes that have asserted an interest in the military installation for the purposes of the National Historic Preservation Act or other required consultation activities. The sacred, archeological, and burial sites are local to the installation.
<b>Dredging</b>	No impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	The Desert National Wildlife Range restricts range operations ground activities above 4,000 ft MSL via MOU with US Fish and Wildlife Service. This restricts 20% of the range land. Four factors were identified at the Nevada Test and Training Range that constrain operations. Three of the operational constraints last two weeks per year, and the fourth constraint lasts one week per year. The four constraints are of the following type: Unable to complete training requirements at home installation and must go TDY. One factor was identified at Nellis that constrains operations for two weeks per year. The constraint is of the following type: Unable to complete training requirements at home installation and must go TDY. Military Munitions Response Program sites exist on the installation and may represent a safety hazard for future development.
<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact
<b>Noise</b>	Noise contours will need to be re-evaluated as a result of the change in mission. The AICUZ reflects the current mission, local land use, and current noise levels. 11,920 acres off-base within the noise contours are zoned by the local community. 1,060 of these acres are residentially zoned. The community has not purchased easements for area surrounding the installation.
<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	T&E species and/or critical habitats already restrict operations with a Biological Opinion. Additional operations may impact T&E species and/or critical habitats. In addition, the Biological Opinion will need to be evaluated to ensure the scenario conforms to it.
<b>Waste Management</b>	Modification of hazardous waste program is needed.
<b>Water Resources</b>	No impact

<b>Wetlands</b>	Wetlands do not currently restrict operations. Additional operations may impact wetlands, which may restrict operations.
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<b><u>Impacts of Costs</u></b>	
	<b>Nellis (Gaining)</b>
<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 43,187 Estimated CTC (\$K): 29,177 DO NOT ENTER IN COBRA
<b>Waste Management</b>	FY07 Waste Program Modification: Scenario \$39K / Cumulative \$100K
<b>Environmental Compliance</b>	FY06 NEPA cost: Scenario \$124K / Cumulative \$318K FY07 Air Conformity Analysis: Scenario \$19K / Cumulative \$50K FY07 Air Conformity Determination: Scenario \$39K / Cumulative \$100K FY07 Significant Air Permit Revision: Scenario \$117K / Cumulative \$300K FY07 Air Emission offsets: Scenario \$1438K / Cumulative \$3,691K

<b><u>General Environmental Impacts</u></b>	
<b>Environmental Resource Area</b>	<b>Shaw AFB (Gaining)</b>
<b>Air Quality</b>	The Francis Marion & Sumter National Forest, a critical air quality region, is within 100 miles of the installation but does not constrain operations. A significant air permit revision may be required.
<b>Cultural/ Archeological/ Tribal Resources</b>	Archaeological resources are present and the installation has a high potential for having archaeological sites, but these do not constrain operations. The installation has a historic property, but it does not constrain operations. Additional operations could affect this site, which may impact operations.
<b>Dredging</b>	No Impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	The scenario may require construction on property whose planned land use is other than administrative.
<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact
<b>Noise</b>	No increase in off-base noise is expected.

<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	T&E species and/or critical habitats exist but don't impact operations. Additional operations may impact T&E species and/or critical habitats.
<b>Waste Management</b>	Modification of hazardous waste program may be necessary.
<b>Water Resources</b>	No impact
<b>Wetlands</b>	Wetlands restrict 2% of the base and 10% of the range. Wetlands do not currently restrict operations. Additional operations may impact wetlands, which may restrict operations.

<b><u>Impacts of Costs</u></b>	
	<b>Shaw AFB (Gaining)</b>
<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 53598 Estimated CTC (\$K): 27143 DO NOT ENTER IN COBRA
<b>Waste Management</b>	FY07 Modify Waste Program: Scenario \$50K / Cumulative \$100K
<b>Environmental Compliance</b>	FY06 NEPA: Scenario \$0K / Cumulative \$192K FY07 Significant Air Permit Revision: Scenario \$50K / Cumulative \$100K

<b><u>General Environmental Impacts</u></b>	
<b>Environmental Resource Area</b>	<b>Langley</b>
<b>Air Quality</b>	A preliminary assessment shows that a conformity determination is required for this scenario. A more in-depth review is required. The inability to achieve a positive conformity determination may be a constraint to this scenario. Air emission offsets may be required. A significant air permit revision may be needed.
<b>Cultural/ Archeological/ Tribal Resources</b>	Sites or areas with high potential for archeological sites were identified. The base has an 837.824-acre historic district with 282 contributing resources. There is one historic property that is not in a historic district.
<b>Dredging</b>	No impact
<b>Land Use Constraints/ Sensitive Resource Areas</b>	Military Munitions Response Program sites exist on the installation and may represent a safety hazard for future development. The base uses safety waivers and exemptions to accomplish the mission. Additional operations may compound the need for safety waivers.

<b>Marine Mammals/ Marine Resources/ Marine Sanctuaries</b>	No impact
<b>Noise</b>	Less than a 3dB general increase in contours can be expected. Noise abatement procedures are already in place for the main installation and range. The AICUZ reflects the current mission/local land use/current noise levels. 17,287 acres off-base within the noise contours are zoned by the local community. 2,774 of these acres are residentially zoned. The community has not purchased easements for the area surrounding the installation.
<b>Threatened&amp; Endangered Species/ Critical Habitat</b>	No T&E species or critical habitats exist. No impact to T&E species is expected.
<b>Waste Management</b>	Modification of hazardous waste program may be required.
<b>Water Resources</b>	The state requires a permit for withdrawal of groundwater.
<b>Wetlands</b>	Wetlands restrict 7% of the base. Wetlands do not currently restrict operations. Additional operations may impact wetlands, which may restrict operations.

<b><u>Impacts of Costs</u></b>	
	<b>Langley</b>
<b>Environmental Restoration</b>	DERA money spent through FY03 (\$K): 52,000 Estimated CTC (\$K): 27,000 DO NOT ENTER IN COBRA
<b>Waste Management</b>	FY07 Hazardous Waste Program Modification: Scenario \$0K / Cumulative \$100K
<b>Environmental Compliance</b>	FY06 NEPA cost: Scenario \$0K / Cumulative \$318K FY07 Air Conformity Analysis: Scenario \$0K / Cumulative \$50K FY07 Conformity Determination: Scenario \$0K / Cumulative \$100K FY07 Air Emissions Credits: Scenario \$1K / Cumulative \$655K FY07 Significant Air Permit Revision: Scenario \$0K / Cumulative \$200K