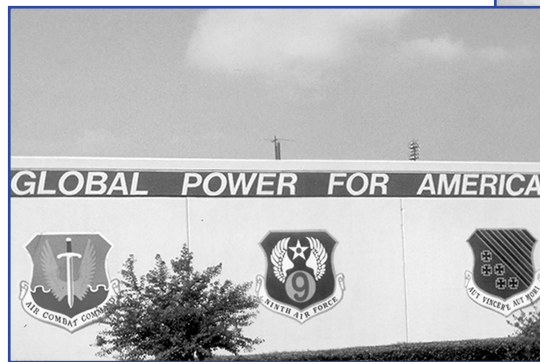


# Final EIS Errata

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## Chapter 2



# How to Use This Document

The Final Environmental Impact Statement (EIS) for the Initial F-22 Operational Wing Beddown is intended to be a reader-friendly document that clearly responds to the questions and comments raised by agencies and the public during the review of the Draft EIS. The Final EIS should be used in conjunction with the Draft EIS published in April 2001. A CD containing both the Draft and Final EIS is provided for your reference at the back of this document. Organization of the Final EIS is shown below.

<b>Executive Summary</b>	<b>Executive Summary</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Summary of the EIS</li><li><input type="checkbox"/> Identification of the Preferred and Environmentally Preferred Alternatives</li></ul>
<b>Overview</b>	<b>Chapter 1 Introduction and Overview</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Introduction to the Final EIS</li><li><input type="checkbox"/> Preferred and Environmentally Preferred Alternatives</li><li><input type="checkbox"/> Public and Agency Involvement</li><li><input type="checkbox"/> Consultation and Coordination</li><li><input type="checkbox"/> Mitigations to Reduce the Potential for Environmental Consequences</li></ul>
<b>Errata</b>	<b>Chapter 2 Errata</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Introduction</li><li><input type="checkbox"/> Clarification and Corrections to the Draft EIS</li></ul>
<b>Comments and Responses</b>	<b>Chapter 3 Comments and Responses</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Introduction<ul style="list-style-type: none"><li><input type="checkbox"/> Comment Directory</li></ul></li><li><input type="checkbox"/> Written, Oral, and Agency Comments<ul style="list-style-type: none"><li><input type="checkbox"/> Written Comments and Submitted Letters</li><li><input type="checkbox"/> Native American and Alaska Native Letters</li><li><input type="checkbox"/> Public Hearing Transcripts and Summaries</li><li><input type="checkbox"/> Agency Letters</li></ul></li><li><input type="checkbox"/> Responses to Comments</li></ul>
<b>Distribution and Glossary</b>	<b>Distribution, Glossary, Acronyms and Abbreviations</b> <ul style="list-style-type: none"><li><input type="checkbox"/> Distribution List for the Final EIS</li><li><input type="checkbox"/> Glossary</li><li><input type="checkbox"/> Acronyms and Abbreviations</li></ul>

## **2 ERRATA**

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This chapter contains clarifications and corrections in accordance with 40 Code of Federal Regulations (CFR) 1503.4(c). Neither the clarifications nor the corrections alter the conclusions presented in the Draft EIS regarding environmental impacts. The corrections and clarifications form the substance of Chapter 2 of this Final EIS. Errata rectify minor errors found in the Draft EIS ranging from corrections of spellings to inserting words or phrases inadvertently omitted from the Draft EIS. Clarifications consist of explanatory information designed to enhance understanding of information in the Draft EIS. These clarifications do not represent substantive changes to the analysis or findings in the Draft EIS.

### **2.1 Organization of Clarifications and Corrections**

To assist the reader, organization of this chapter follows the organization of the Draft EIS. The corrections and clarifications first address the Executive Summary of the Draft EIS and then progress through the remainder of the chapters and appendices that were included in the Draft EIS. Those sections of the Draft EIS not requiring any changes or clarifications have not been included in the list of errata.

### **2.2 Finding Clarifications and Corrections**

Each correction or clarification is listed according to its page, paragraph, and sentence in the Draft EIS. You will need a copy of the two-volume Draft EIS to accompany your review of this Final EIS. To ensure that all interested parties who receive a copy of this Final EIS have a copy of the Draft EIS, we have included a CD (inside back cover) containing both the Draft EIS and this Final EIS with each printed copy of the Final EIS.

In order to follow the changes made to the Draft EIS, some sections or paragraphs have been reprinted in their entirety. Most of these are simply a replacement of a word or phrase.

An example of an erratum is reproduced below:

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-5	The paragraph starting, "Section LA2 describes..."	<u>Change sentence two:</u> "floor (upper) and ceiling (lower) altitudes" <u>to</u> "floor (lower) and ceiling (upper) altitudes"

### Clarifications and Corrections

Draft EIS		Errata
Page Number	Location	
VOLUME 1		
Executive Summary		
ES-4	Text Box	<u>Revise last line to read:</u> "...Range Complex, Nevada; Utah Test and Training Range, Utah; Eglin AFB, Florida."
ES-5	The paragraph starting, "Air-to-ground training..."	<u>Revise sentence three to read:</u> "...Nevada, the Utah Test and Training Range, Utah, or approved ranges associated with Eglin AFB, Florida."
Chapter 1		
1-1	Inset map of Elmendorf AFB	<u>Add:</u> "Alaska" identification label to map that shows location of Elmendorf AFB.
Chapter 2		
2-1	Text Box	<u>Revise last line to read:</u> "...Range Complex, Nevada; Utah Test and Training Range, Utah; Eglin AFB's ranges, Florida."
2-2	Text box depicting, "Phase, start, end..."	<u>Change:</u> "Start" to "Start <sup>1</sup> " <u>Change existing</u> "Note: 1." to "Note: 2." <u>Add</u> "Note 1: Production/delivery schedule may fluctuate by a few months depending upon project development."
2-8	The paragraph starting, "Beddown of the..."	<u>Insert as new sentence three:</u> "The operational F-22 contractor support personnel number of 54 persons could change by 20 to 30 or more, up or down, between the initial operational years and later operational years. For consistency, throughout this analysis, the 54 contractor personnel number is applied to the life of the operational wing at any base."
2-14	The paragraph starting, "Air-to-ground training..."	<u>Revise third sentence to read:</u> "Locations for such training could include the Nellis Range Complex, Nevada, the Utah Test and Training Range, Utah, or at approved ranges associated with Eglin AFB, Florida."
2-19	Table 2.1-11	<u>Replace text in 1<sup>st</sup> row/3<sup>rd</sup> column with:</u> "Any request for construction, which requires a waiver, on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval."

**Initial F-22 Operational Wing Beddown Final EIS**

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<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
2-28	The paragraph starting, “Visual resources are...”	<u>Insert sentence at the end of the paragraph:</u> “The study area comprised the base and vicinity; visual resources were not analyzed for the area underneath the airspace.”
	The paragraph starting, “Socioeconomics addresses employment...”	<u>Insert at the end of the sentence:</u> “; therefore, the area underneath the airspace was not analyzed.”
2-29	The paragraph starting, “Community and infrastructure...”	<u>Insert after second sentence:</u> “Community and infrastructure resources are typically impacted by fluctuations in population and generally occur at the base and environs. Airspace and ranges are not addressed in this section.”
2-31	Table 2.4-1	<u>3<sup>rd</sup> row beneath Elmendorf column. Replace third sentence:</u> “Majority (96 percent) of affected area overlies water or over 25 acres of the Port of Anchorage industrial land.”
<b>Langley AFB</b>		
LA2-2	The paragraph starting, “The Air Force...”	<u>Revise last sentence to read:</u> “Some of these missions would involve ordnance delivery training or missile firing at approved ranges such as the Nellis Range Complex in Nevada, Utah Test and Training Range in Utah, or Eglin AFB in Florida.”
LA2-6	The paragraph starting, “Infrastructure upgrades, such...”	<u>Revise the last sentence to read:</u> “These projects, planned for 2001, include remodels or upgrades to five internal repair or renovation projects – the airfield lighting vault, office space for security forces, office space for the base Support Team, conversion of an existing maintenance dock to an armament shop, and renovation of office space for the Gold Flag program. Two other infrastructure projects – providing utilities to a temporary base operations/weather facility, and constructing new manholes, are also included. All of these projects have been analyzed and determined to be categorically excluded from further environmental analysis (Air Force 2001a, 2001b, 2001c, 2001d, 2001e, 2001f, and 2001g).”

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA2-12	The paragraph starting, “Langley AFB would...”	<u>Insert as the last sentence:</u> “In addition, all Air Force activities will comply with the Coastal Zone Management Act and the Virginia Coastal Resources Management Program to the maximum extent practicable.”
	The paragraph starting, “Langley AFB also...”	<u>Insert as the last sentence:</u> “Langley AFB and the Virginia Department of Historic Resources have developed a Memorandum of Agreement that ensures compliance with Section 106 of the NHPA and sets forth requirements that involve documentation of buildings proposed for demolition.”
	The paragraph starting, “The Air Force...”	<p><u>Insert at the end of paragraph:</u> “Any request for construction, which requires a waiver, on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval.</p> <p>If future proposed construction would impact an ERP site covered by a ROD and/or agreement on land use controls, the proposed action must be consistent with the terms of the ROD and any Memorandum of Agreement on Land Use Controls. If the proposed action is not consistent with the terms of the ROD or any Memorandum of Agreement on Land Use Controls, a waiver of the restrictions and requirements may be necessary from the originating parties (ACC Civil Engineer Directorate, Environmental Division, USEPA, and Virginia DEQ).</p> <p>Prior to any construction activities, including site preparation, a Soil Erosion and Sediment Control Plan and a Construction Stormwater Pollution Prevention Management Plan would be prepared. The Air Force would coordinate stormwater permitting issues with the DEQ Regional Office Stormwater Permitting staff. The Erosion and Sediment Control Plan would be coordinated and submitted to the Virginia Department of Conservation and Recreation.”</p>
LA3-5	The paragraph starting, “Section LA2 describes...”	<u>Change sentence two:</u> “floor (upper) and ceiling (lower) altitudes” to “floor (lower) and ceiling (upper) altitudes”
LA3-10	The paragraph starting, “Since the beddown...”	<u>Insert before last sentence:</u> “Table AO-1-6, in Appendix AO-1, shows SELs derived from composite data for the F-22 (airfield conditions) and for three other aircraft (airfield and airspace conditions for the F-15 and F-18 and airfield conditions only for F-18 E/F).”

## ***Initial F-22 Operational Wing Beddown Final EIS***

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-14	Table LA 3.2-3	<u>Change Note 3:</u> “Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”
	Table LA3.2-4	<u>Change Note 2:</u> “Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”
LA3-20	The paragraph starting, “The affected environment...”	<u>Revise first sentence to read:</u> “The affected environment is the baseline air quality in the AQCR for all criteria pollutants.”
	The paragraph starting, “The Virginia Department...”	<u>Sentence six. Replace:</u> “state” <u>with</u> “Commonwealth.”
LA3-21	The paragraph starting, “Mobile source emissions...”	<u>Insert after the first sentence:</u> “Mobile source emissions also include personal vehicles. Personal vehicles are accounted for in the calculation of total impacts.”
	The paragraph starting, “Air quality in...”	<u>In the second sentence, replace:</u> “the area” <u>with</u> “Virginia.”
LA3-22	The paragraph starting, “In addition to...”	<u>Replace parenthetical in first sentence with:</u> “(pending the outcome of the remand order issued by the Supreme Court in Whitman v. American Trucking, 531 U.S. 457 (2001)).”
		<u>Last sentence. Change reference from</u> “(USEPA 2000c)” <u>to</u> “(USEPA 2001c).”
	The paragraph starting, “The air quality...”	<u>Insert after the last sentence:</u> “Impacts to air quality would be considered significant if pollutant emissions associated with implementation of the action caused or contributed to a violation of any national or state ambient air quality standard, exposed sensitive receptors to substantially increased pollutant concentrations, represented an increase of 10 percent or more in affected AQCR’s emissions inventory or exceeded any significance criteria established by the Virginia SIP.”

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-24	Table LA3.3-4	<u>Add column heading: “Source Category” to the first column and add column heading “Pollutants (Tons per Year)” above remaining columns.</u>
	The paragraph starting, “For proposed federal...”	<u>Revise sentence one to read:</u> “For proposed federal actions with emissions that are small in relation to regional emissions (like this F-22 Operational Wing proposal), the increased emissions would not contribute to or interfere with achieving the NAAQS.”
LA3-26	The paragraph starting, “Table LA3.3-7 summarizes...”	<u>Insert as new sentence four:</u> “The increased emissions would not contribute to a violation of the NAAQS or interfere with the SIP.”
LA3-31	The paragraph starting, “Since more than...”	<u>Replace the paragraph with:</u> “The Air Force will minimize indirect as well as direct impacts to nearby water resources through compliance with all applicable storm water regulations. These regulations and required permits will be developed and complied with both during and subsequent to any construction activities. Since more than 5 acres would be disturbed by construction of F-22 related facilities, a VPDES storm water permit would be required. Since Langley AFB already has an existing VPDES permit, the existing permit would have to be updated and amended as required. Current coordination with DEQ, addressing VPDES permitting, is under way. Under the VPDES permit, a SWPPP addressing erosion and sediment control would need to be developed prior to construction at Langley AFB. The SWPPP would include best management practices addressing the elimination or reduction of sediments and non-storm water discharges. As appropriate, an Erosion and Sediment Control Plan would also be prepared prior to construction.”
LA3-32	The paragraph starting, “Overland airspace includes...”	<u>Sentence five. Replace:</u> “A total of 75,484” with “More than 408,000.”  <u>Replace last sentence with:</u> “Only Farmville MOA is considered primary use overland airspace (refer to Figure LA3.1-1) and over 60,000 acres of special use areas are under this airspace consisting mostly of state forest and wildlife management areas. The largest number of acres is under the Evers MOA consisting mostly of National Forest lands (see Table HR-2-1 and the Langley AFB Special Use Areas Figure in Appendix HR-2).”

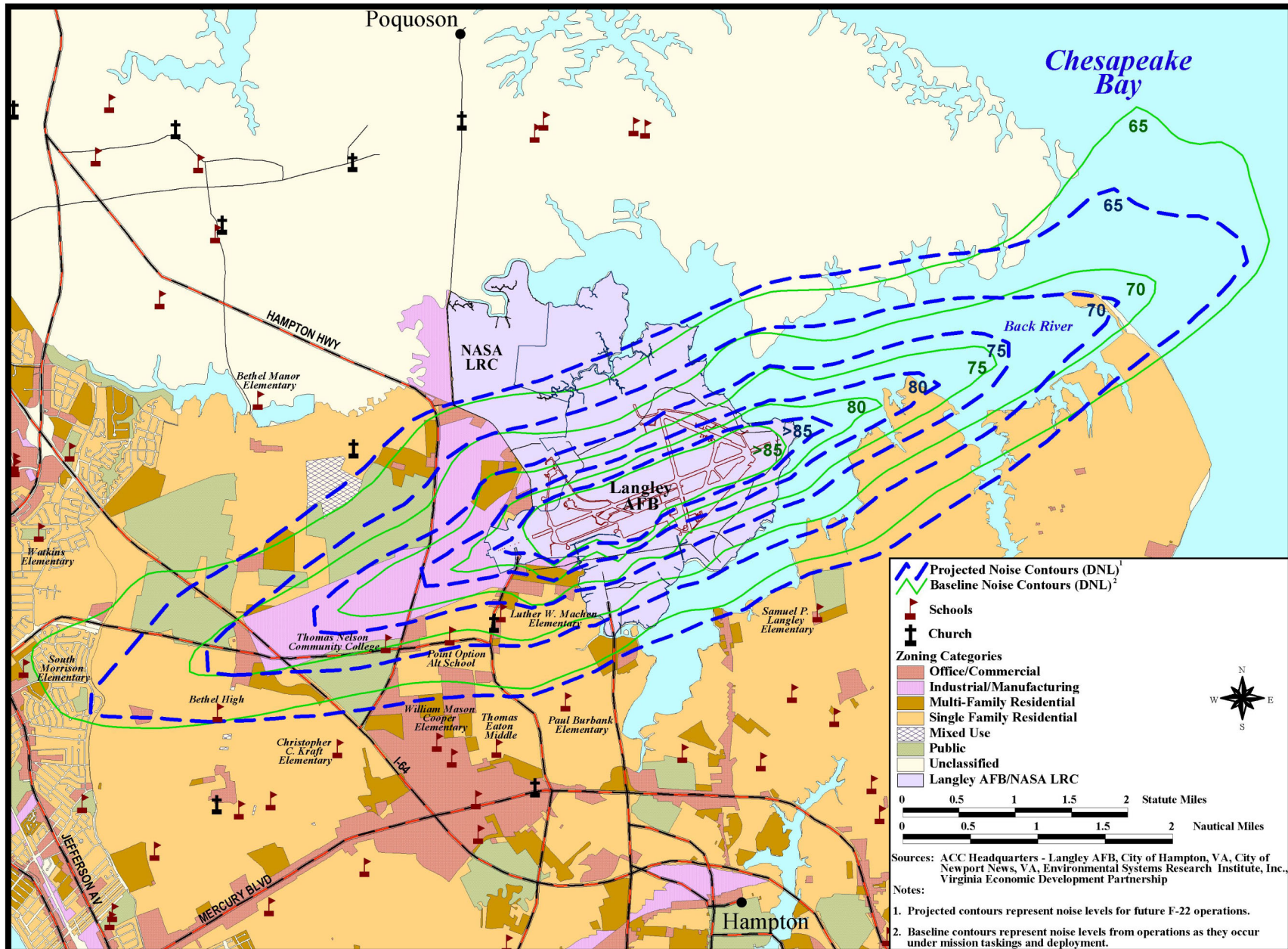


<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-33	The paragraph starting, “Based on projected...”	<u>Sentence one.</u> Revise <i>reason (2)</i> to read: “the percent of F-22 flight time (0.25 percent) below 1,000 feet AGL in the Farmville MOA would be less than current F-15C use (12.5 percent) (see Table LA2.2-2);”
LA3-34	The paragraph starting, “No wetlands, streams...”	<u>Revise paragraph to read:</u> “Construction projects associated with the beddown of the F-22 at Langley AFB would not affect sensitive coastal resources such as riparian zones and wetlands and a Clean Water Act Section 404 permit would not be required.”  <u>Insert new paragraph:</u> “The Air Force has agreed to abide by the provisions of the Chesapeake Bay Preservation Act. The purpose of the preservation areas is to protect and improve the water quality of the Chesapeake Bay and its tributaries. These areas consist of Resource Protection Areas and Resource Management Areas. Resource Protection Areas are tidal shores, tidal wetlands, tributary perennial streams, and a 100-foot buffer zone landward of the Resource Protection Area. The Resource Management Area is a 100-foot area landward of the Resource Protection Area that includes floodplains, highly erodible soils including steep slopes, highly permeable soils, and non-tidal wetlands not included in the Resource Protection Area. The purpose of preserving these areas is to prevent increases and to ultimately reduce non-point source pollution into the Chesapeake Bay. General performance criteria have been developed for land inside the Resource Protection Areas including minimizing land disturbance as much as possible, preserving native vegetation, minimizing impervious cover, and other criteria. This is a state program administered by local governments.”
LA3-35	The paragraph starting, “Ten special status...”	<u>Sentence one.</u> Replace: “Ten” <u>with</u> “Eleven” <u>Sentence two.</u> Insert before “Northeastern”: “Virginia least trillium,” <u>Sentence three.</u> Replace: “two” <u>with</u> “three”
	The paragraph starting, “One of the...”	<u>Insert before the last sentence:</u> “The bald eagle has nested within 3 miles of the base in recent years. A nest was about 3 miles west of the base in 1997 and 1998. This nest has not been active since 1998 (Wilcox 2001). An active bald eagle nest site is 3 miles directly east of the base. This nest has been active for the last two breeding seasons (Davis 2001).”

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<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-35	The paragraph starting, “Species listed, proposed...”	<p><u>Sentence two. Change:</u> “Critical habitat for the bald eagle” <u>to</u> “Bald eagle nesting habitat...”</p> <p><u>Insert after last sentence:</u> “The bald eagle nest site west of the base and the one east of the base are in areas that currently have high levels of human activity including the current military aircraft flights at Langley AFB. The beddown of the F-22 at Langley is not expected to have an impact on the active bald eagle nests east of the base or the one west of the base should it be reoccupied (Davis 2001, Wilcox 2001). The minimum requirements regarding aircraft flights over bald eagle nests are 1,000 feet vertically and 1,320 feet horizontally (USFWS and Virginia Department of Game and Inland Fisheries 2001). F-22 flights would be well beyond these distances by the time they are in the area of the active nest east of the base.”</p>
	The paragraph starting, “State protected species...”	<p><u>Sentence one. Insert after “species”:</u> “and the federal species of concern.”</p>
LA3-36	The paragraph starting, “Sixty special status...”	<p><u>Sentence three. Replace:</u> “Thirteen” <u>with</u> “Seventeen.”</p> <p><u>Revise the last sentence to read:</u> “The remaining special status species are exclusively associated with coastal and inland terrestrial and aquatic environments including recently designated piping plover critical wintering habitat along mainland beaches and barrier islands from North Carolina to northern Florida in the area of the primary and occasional use overwater airspace (USFWS 2001).”</p>
LA3-37	The paragraph starting, “Environmental assessments that...”	<p><u>Replace sentence two with:</u> “The USFWS and Virginia Department of Game and Inland Fisheries require 1,320-foot (horizontal) and 1,000-foot (vertical) buffer areas around one bald eagle nest between mid-December and mid-July underneath the Farmville MOA (USFWS and Virginia Department of Game and Inland Fisheries 2001).”</p>

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-37	The paragraph starting, “Nesting bald eagles...”	<u>Replace paragraph with:</u> “Nesting bald eagles could be overflowed when accessing airspace over the marine environment as indicated above in section LA3.8.1. However, because overflights in this area will be at high altitudes, the minimum distance requirements (USFWS and Virginia Department of Game and Inland Fisheries 2000) will be met.”
LA3-51	The paragraph starting, “Noise sensitive receptors...”	<u>Insert as new paragraph after this paragraph:</u> “Figure LA3.12-1 illustrates land uses in the vicinity of the Langley AFB airfield noise contours. It also identifies the locations of sensitive receptors including schools and churches underlying the baseline and project-related airfield noise contours. This figure was derived from data provided by local entities and has been consolidated to reflect key land use categories. This information supplements the land use data presented in Table 3.12-1 which is derived from GIS data bases developed by non-local agencies (e.g., USGS).”
		<u>Insert at end of second sentence:</u> “(refer to Figure 3.12-1).”
		<u>Insert page with Figure LA3.12-1.</u>



**Figure LA3.12-1**  
**Land Uses Within the Langley AFB Noise Contours**

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-52	The text box beginning, “Amount of Off-Base...”	<u>Replace:</u> “>85” with “Total” <u>Revise Note 1 to read:</u> “Note 1. All referenced acreages are located off Langley AFB, but do not include any over-water areas.”
LA3-56	The paragraph starting, “The population of...”	<u>Sentence two. Replace:</u> “state of Virginia” with “Commonwealth of Virginia.”
LA3-59	The paragraph starting, “For the proposed...”	<u>Replace the first five (including parenthetical) sentences with:</u> “For the proposed action, overland areas with noise exposure of 65 DNL or greater were identified for baseline and proposed action conditions. The affected off-base population under these areas was then estimated. (See Appendix HR-1 for methodology and HR-4 for additional data on the population distributions.) Overall, the number of people exposed to a DNL of 65 dB or greater would decrease by 119 persons. This is associated with a projected reduction in the total land area under the proposed action 65 DNL noise contours. Within the reduced total area, the 70 DNL and greater contours show an overall expansion. This is because the F-22 (compared to the F-15C) generates more noise closer to the runway, and less noise farther from the runway. As a result, even though there would be a net decrease in persons exposed to 65 DNL or more, the number of people within the 70 DNL and greater contour would increase by 806 persons.”
LA3-65	The subheading “Environmental Consequences”	<u>Insert paragraph immediately following subheading “Environmental Consequences”:</u> “The F-22 Environmental and Health Working Group was established several years ago to assist all affected agencies in compliance with applicable federal, state, and local environmental and occupational health laws and Air Force Policies. One of the objectives of the Working Group is to identify potential health hazard issues to ensure they are recognized, fully evaluated, and appropriate hazard control/elimination measures are identified early in the acquisition cycle. Concerns with the low observable coatings have been addressed through this process and controls will be implemented to minimize or eliminate exposure.”

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA3-66	The paragraph starting, "A multi-stage field..."	<p><u>Insert after the last sentence as new paragraphs:</u> "The proposed upgrades to the storm drainage system would affect ERP site OT-56. ERP site OT-56 is silver contamination of all base storm sewers. Periodically, elevated levels of silver occur in the storm and sanitary sewer outfalls, as evidenced by periodic sampling required by the base's VPDES and Hampton Roads Sanitation District sewer discharge permits. The phase II part of the ecological risk assessment for this site was completed in FY00. For those outfalls where cleanup was recommended, an Interim Remedial Action has been started. A Final Feasibility Study, Proposed Plan, ERP Record of Decision, Remedial Design and Remedial Action continue concurrently with the Interim Remedial Action.</p> <p>Components of the storm water system removed during construction will be evaluated for hazardous characteristics prior to disposal.</p> <p>Prior to any demolition or renovation activities associated with the proposed action, the affected facilities will be inspected for the presence of asbestos, including Category 1 and Category II non-friable asbestos-containing material (ACM). Upon classification as friable and non-friable, all waste ACM will be transported and disposed of in accordance with applicable federal and state regulations. Furthermore, all wastes generated by construction and operation of the facilities associated with the proposed action will be managed in accordance with local, state, and federal regulatory requirements. Any soil suspected of contamination, as discovered during the construction process, will be tested and disposed of in accordance with proper regulations.</p> <p>Project contractors will comply with federal, state, and local environmental laws and will employ affirmative procurement practices when economically and technically feasible."</p>

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
LA4-1	The paragraph starting, “Langley AFB is...”	<u>Insert as last sentences:</u> “For example, during the summer of 2001, 55 additional full-time equivalent personnel were authorized for the Aerospace Expeditionary Force (AEF) Center beddown at Langley AFB. Langley AFB is projecting changes in personnel to enhance the capability of F-15C flying squadrons to staff for overseas deployment as well as additional personnel for the AEF Center and the Combined Air Operations Center. Such personnel changes have the potential to alter the projected future baseline conditions for an installation. The EIS analysis of F-22 is a project-related assessment of consequences based on the change resulting from replacing combat F-15C aircraft with three squadrons of F-22 combat aircraft. As such, the consequences of such a change are accurately reflected in the analysis even if the projected future baseline varies by ongoing projects that affect the number of base personnel.”
LA4-2	The paragraph starting, “In 1998, the...”	<u>Insert after the last sentence:</u> “During FY01, the Air Combat Command announced the establishment of the AEF Center and the Combined Air Operations Center at Langley AFB. These two programs would add approximately 102 new personnel to the base by September 2001 and would use existing facilities. Also proposed during the same time period were the demolition of the Langley Tow Tank Facility and the construction of a new Fitness Center.”
	The paragraph starting, “The Navy is...”	<u>Sentence four. Replace:</u> “34” <u>with</u> “32” <u>and in next line replace</u> “164” <u>with</u> “162” <u>Sentence five. Replace:</u> “Reserve” <u>with</u> “Replacement”
LA4-3	The paragraph starting, “Other regional projects...”	<u>Sentence one. After:</u> “include” <u>add</u> “a possible additional runway at Norfolk International Airport,”
	The paragraph starting, “Although not fully...”	<u>Sentence one. Insert:</u> “housing and infrastructure” <u>between</u> “on-base” <u>and</u> “actions.”

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<b><i>Draft EIS</i></b>		<b><i>Errata</i></b>
<b><i>Page Number</i></b>	<b><i>Location</i></b>	
LA4-3	The paragraph starting, “With a decision...”	<u>Revise paragraph to read:</u> “With a decision regarding basing the Navy’s F/A-18E/F aircraft at least one year away, precise evaluation of this action’s impacts or their cumulative effects is not achievable. If the Navy decides to base them at NAS Oceana, interaction with the proposed F-22 beddown would occur in the training airspace shared by NAS Oceana and Langley AFB (W-72, W-122, and W-386). Navy sortie-operations in these Warning Areas would be similar to current levels since the total number of aircraft at NAS Oceana would not change substantially even if all F/A-18 E/Fs were based there. Assuming similar operational patterns as the F/A-18s, the F/A-18E/F sortie-operations, combined with the proposed F-22 activity, would probably yield noise levels in these Warning Areas below 45 DNL.”
LA4-4	The paragraph starting, “The beddown of...”	<u>Replace sentence one with:</u> “The beddown of F/A-18E/F aircraft to NAS Oceana would decrease personnel slightly, although air emissions may remain at current levels or increase in the general area of Langley AFB.”
LA5-1	The paragraph starting, “Management actions can...”	<u>Insert after sentence one:</u> “The term “management action” is encompassed by the definition of “mitigation” as outlined in 40 Code of Federal Regulations (CFR) Section 1508.20 Mitigation.”
<b>Eglin AFB</b>		
EG2-11	The paragraph starting, “Eglin AFB also...”	<u>Insert new paragraph after this paragraph:</u> “Any request for construction, which requires a waiver, on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval.”
EG3-9	The paragraph starting, “In the recent...”	<u>Insert before last sentence:</u> “Table AO-1-6, in Appendix AO-1, shows SELs derived from composite data for the F-22 (airfield conditions) and for three other aircraft (airfield and airspace conditions for the F-15 and F-18 and airfield conditions only for F-18 E/F).”
EG3-14	Table EG3.2-3; Table EG3.2-4	<u>Change:</u> “Note: 2. Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”



## ***Initial F-22 Operational Wing Beddown Final EIS***

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
EG3-31	The paragraph starting, “As shown in...”	<p><u>Sentence one. Replace:</u> “four MOAs” <u>with</u> “seven MOAs.”</p> <p><u>Insert before last sentence:</u> “The largest number of acres occur under the Tyndall 4 MOA where about 78 percent of the land consists of Special Use Areas (see Table HR-2-1 and the Eglin/Tyndall Special Use Areas Figure in Appendix HR-2).”</p>
	The paragraph starting, “Based on projected...”	<p><u>Sentence two. Revise reason (2) to read:</u> “the percent of F-22 flight time (0.25 percent) below 1,000 feet AGL would be much less than current F-15C use (45 percent) (see Table EG2.2-2).”</p>
EG3-33	The paragraph starting, “Fourteen federally listed...”	<p><u>Sentence two. Revise to read:</u> “Eleven of these, excluding the American alligator, flatwoods salamander and gulf sturgeon, are listed as threatened or endangered by the State of Florida.”</p>
	The paragraph starting, “An additional 37...”	<p><u>Sentence one. Replace:</u> “37” <u>with</u> “38.”</p> <p><u>Sentence two. Replace:</u> “Forty-three” <u>with</u> “Forty-five.”</p>
EG3-34	The paragraph starting, “Fifty-seven special...”	<p><u>Insert as the last sentence:</u> “In addition, piping plover wintering critical habitat along mainland beaches and barrier islands was recently designated from Alabama to the Apalachicola area in the area of the over-water airspace (USFWS 2001).”</p>
EG5-1	The paragraph starting, “Management actions can...”	<p><u>Insert after sentence one:</u> “The term “management action” is encompassed by the definition of “mitigation” as outlined in 40 Code of Federal Regulations (CFR) Section 1508.20 Mitigation.”</p>
<b>Elmendorf AFB</b>		
EL2-2	The paragraph starting, “The Air Force...”	<p><u>Revise last sentence to read:</u> “Some of these sorties would involve ordnance delivery training or missile firing at approved ranges such as the Nellis Range Complex in Nevada, Utah Test and Training Range in Utah, or Eglin AFB in Florida.”</p>
EL2-13	The paragraph starting, “A National Pollution...”	<p><u>Insert new paragraph after this paragraph:</u> “Any request for construction (waiver) on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval.”</p>

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EL3-5	The paragraph starting, “A number of...”	<u>Change sentence two:</u> “Naknek ½” <u>to</u> “Naknek 1/2.”
EL3-8	First sentence at the top of the page	<u>Revise sentence one and two to read:</u> “Missions involving ordnance delivery or missile firing would occur at approved ranges such as the Nellis Range Complex in Nevada, the Utah Test and Training Range in Utah, or Eglin AFB in Florida. Air-to-ground ranges in Alaska would only be used by exception by the F-22.”
EL3-11	The paragraph starting, “Baseline noise levels...”	<u>Insert before last sentence:</u> “Table AO-1-6, in Appendix AO-1, shows SELs derived from composite data for the F-22 (airfield conditions) and for three other aircraft (airfield and airspace conditions for the F-15 and F-18 and airfield conditions only for F-18 E/F).”
EL3-11	The paragraph starting, “Noise levels of...”	<u>Revise sentence one and two to read:</u> “Off-base areas affected by noise levels of 65 DNL or higher primarily occur over water (96 percent). A small portion (about 25 acres) overlies the industrialized area of Port Anchorage.”
EL3-12	Figure EL3.2-1	<u>Replace</u> “Knick” <u>with</u> “Knik”
EL3-13	The paragraph starting, “Under this alternative...”	<u>Replace sentence three with:</u> “Noise exposure would increase (Table EL3.2-2 and refer to Figure EL3.2-1) primarily over military lands (Elmendorf AFB and Fort Richardson). Most of the off-base affected area (607 acres) overlies water, with a portion (25 acres) of industrial land of the Port of Anchorage also affected by noise levels of 65 DNL or greater.”
	Table EL3.2-2	<u>Insert “Note 1” to 8<sup>th</sup> Column:</u> “Note 1. Includes areas within Elmendorf AFB and Fort Richardson.”  <u>Replace existing “Note 1” with “Note 2”.</u> <u>Revise Note 2 to read:</u> “Acreage is primarily over water (96 percent). A small portion (about 25 acres) overlies the industrialized area of Port Anchorage.”
EL3-14	The paragraph starting, “Elmendorf and Langley...”	<u>Replace sentence two with:</u> “The total area affected by noise levels of 65 DNL or greater would increase by 607 acres in the off-base environment at Elmendorf AFB. Almost all (96 percent) of this overlies water or over 25 acres of the Port of Anchorage industrial land. At Langley AFB there would be a decrease of 521 acres in the off-base environment. Approximately 78 percent of this area would overlie water.”

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EL3-15	Table EL3.2-3; Table EL3.2-4	<u>Change</u> “Note: 2. Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”
EL3-21	The paragraph starting, “The Alaska Department...”	<u>Sentence five. Replace:</u> “ENVEST” <u>with</u> “ENVVEST”
EL3-32	The paragraph starting, “As shown in...”	<u>Replace last sentence:</u> “(see Appendix NR-3)” with “(see Table HR-2-1 and the Elmendorf AFB Special Use Areas Figure in Appendix HR-2).”
EL3-33	The paragraph starting, “Based on projected...”	<u>Sentence one. Revise reason (2) to read:</u> “the percent of F-22 flight time (0.25 percent) below 1,000 feet AGL would be less than the current F-15C use (4 percent) at some MOAs (see Table EL2.2-2),”
EL3-35	The paragraph starting, “Many lakes and...”	<u>Revise sentence to read:</u> “Many lakes and rivers are located under the airspaces including Wild and Scenic Rivers and the Fox 3 and Yukon 1, 2, and 3 MOAs (see Appendix HR-2).”
EL3-36	The first paragraph starting, “No federally listed...”	<u>Sentence two. Replace:</u> “...conducted of the proposed...” <u>with</u> “...conducted in and near the proposed...”  <u>Replace sentence three with:</u> “Background information on the effects of noise on wildlife are summarized in Appendix NR-4 and suggest that special status species such as the beluga whale, peregrine falcon, and the remaining state species of concern as listed above would not be adversely affected by base construction and aircraft operations under this alternative.”
EL3-43	Figure EL3.11-2	<u>Delete</u> “Lake” from the “Healy Lake” label on the left.
EL3-48	The paragraph starting, “The Initial F-22...”	<u>Sentence three. Replace:</u> “should be” <u>with</u> “is.”  <u>Insert as fourth sentence:</u> “Although some lands used for recreational purposes, including horseback riding, will be affected by new construction, recreational areas will be relocated to other areas on Elmendorf AFB or Fort Richardson.”

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EL3-48	The paragraph starting, “The area affected...”	<p><u>Sentence three.</u> Before: “over water (Knik Arm),” <u>insert</u> “...over industrial land (25 acres of the Port of Anchorage),”</p> <p><u>Replace sentence four with:</u> “No change is expected in the number of persons highly annoyed at Elmendorf AFB because the 65 DNL and above noise contours occur over military lands, industrialized land, or over water.”</p>
	The paragraph starting, “The potential for...”	<u>Revise sentence two to read:</u> “At Elmendorf, acreage affected by noise levels of 65 DNL or greater is primarily over water (96 percent). A small portion (about 25 acres) overlies the industrialized area of Port Anchorage.”
EL5-1	The paragraph starting, “Management actions can...”	<u>Insert after sentence one:</u> “The term “management action” is encompassed by the definition of “mitigation” as outlined in 40 Code of Federal Regulations (CFR) Section 1508.20 Mitigation.”
<b>Mountain Home AFB</b>		
MH2-2	The paragraph starting, “The 366 <sup>th</sup> Wing...”	<u>Last sentence. Replace:</u> “90” <u>with</u> “120”
MH2-3	The paragraph at the top of the page	<u>Revise second sentence to read:</u> “Some of these remote sorties would involve ordnance delivery training or missile firing at approved ranges, such as the Nellis Range Complex in Nevada, Utah Test and Training Range in Utah, or Eglin AFB’s ranges in Florida.”
MH2-10	The paragraph starting, “The F-22 would...”	<u>Sentence four. Change:</u> “below 2,000 feet AGL.” <u>to</u> “in accordance with the Settlement Agreement.”
MH2-12	The paragraph starting, “In addition, the...”	<u>Insert after the last sentence:</u> “Any request for construction, which requires a waiver, on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval. ”
MH3-10	The paragraph starting, “Since 1996, with...”	<u>Insert before last sentence:</u> “Table AO-1-6, in Appendix AO-1, shows SELs derived from composite data for the F-22 (airfield conditions) and for three other aircraft (airfield and airspace conditions for the F-15 and F-18 and airfield conditions only for F-18 E/F).”

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MH3-15	Table MH3.2-3	<u>Change</u> : “Note: 3. Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”
	Table MH3.2-4	<u>Change</u> : “Note: 2. Projected based on F-22 composite aircraft” <u>to</u> “Estimated based on a composite of existing engine noise data.”
MH3-34	The paragraph starting, “As shown on...”	<u>Sentence seven. Change</u> : “200,000” <u>to</u> “200,000,000”  <u>Insert at the end of the last sentence</u> : “(see Table HR-2 and the Mountain Home AFB Special Use Areas Figure in Appendix HR-2).”
	The paragraph starting, “Based on projected...”	<u>Sentence one. Revise reason (2) to read</u> : “the percent of F-22 flight time (5 percent) below 5,000 feet AGL would be less than one-third of the current F-15C use (17 percent) for the Jarbidge and Owyhee MOAs (see Table MH2.2-2), and...”
MH3-37	The paragraph starting, “Sixteen state species...”	<u>Revise paragraph to read</u> : “Eighteen state species of concern (3 amphibians, 2 reptiles, 9 birds, 4 mammals) occur or have the potential to occur on Mountain Home AFB (Appendix NR-2) (Air Force 1998c). The status of many of these species on base is not known, but it is believed that the majority do not occur on base (Air Force 1998c).”
	The paragraph starting, “Impacts to threatened...”	<u>Revise second sentence to read</u> : “Mountain Home has a slightly greater potential for impacts because habitat of the burrowing owl, a special status species, may be affected.”
MH5-1	The paragraph starting, “Management actions can...”	<u>Insert after sentence one</u> : “The term “management action” is encompassed by the definition of “mitigation” as outlined in 40 Code of Federal Regulations (CFR) Section 1508.20 Mitigation.”
<b>Tyndall AFB</b>		
TY2-3	First sentence at the top of the page	<u>Revise sentence to read</u> : “Operational F-22s from Tyndall AFB could also use approved ranges at Eglin AFB.”
TY2-13	The paragraph starting, “New construction would...”	<u>Insert a new paragraph after this paragraph</u> : “Any request for construction, which requires a waiver, on or near an Environmental Restoration Program (ERP) site must be submitted from base civil engineering to headquarters civil engineering restoration office for review and approval. ”

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TY3-9	The paragraph starting, "In the recent..."	<u>Insert before last sentence:</u> "Table AO-1-6, in Appendix AO-1, shows SELs derived from composite data for the F-22 (airfield conditions) and for three other aircraft (airfield and airspace conditions for the F-15 and F-18 and airfield conditions only for F-18 E/F)."
TY3-14	Table TY3.2-3; Table TY3.2-4	<u>Change:</u> "Note: 2. Projected based on F-22 composite aircraft" to "Estimated based on a composite of existing engine noise data."
TY3-32	The paragraph starting, "Building locations sited..."	<p><u>Revise sentence two to read:</u> "...in accordance with the State of Florida and United States Army Corps of Engineers (USACE) Wetlands Delineation procedures."</p> <p><u>Sentence four. Delete:</u> "determined"</p> <p><u>Insert before sentence seven that begins, "As may be required...":</u> "If state and/or USACE jurisdictional wetlands would be affected, a Joint Application for Works in the Waters of Florida would be submitted to the appropriate state agency."</p>
TY3-34	The paragraph starting, "The plant communities..."	<u>Insert after the last sentence:</u> Surveys for federally listed species would be coordinated with the USFWS field office in Panama City, Florida."
TY5-1	The paragraph starting, "Management actions can..."	<u>Insert after sentence one:</u> "The term "management action" is encompassed by the definition of "mitigation" as outlined in 40 Code of Federal Regulations (CFR) Section 1508.20 Mitigation."
<b>VOLUME 2</b>		
<b>Chapter 4</b>		
4-1	Chapter 2	<u>Insert:</u> "Air Force. 2001c. Request for Environmental Impact Analysis - Convert/Repair Bldg. 7853 (MUHJ 01-7003A/B). AF Form 813. 26 April."
	Langley References	<p><u>Insert:</u> "Air Force. 1998. Final Environmental Assessment for the Proposed Force Structure Change at Langley AFB."</p> <p><u>Insert:</u> "Air Force. 2001a. Request for Environmental Impact Analysis - Alt CSC, Bldg. 768. AF Form 813. 26 April."</p> <p><u>Insert:</u> "Air Force. 2001b. Request for Environmental Impact Analysis - Construct Interim Ops Facility. AF Form 813. 15 June."</p>

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4-3	Langley References	<p><u>Insert:</u> “Air Force. 2001d. Request for Environmental Impact Analysis - Gold Flag, Bldg. 750. AF Form 813. 20 April.”</p> <p><u>Insert:</u> “Air Force. 2001e. Request for Environmental Impact Analysis - Alt CSC, Bldg. 768. AF Form 813. 26 April.”</p> <p><u>Insert:</u> “Air Force. 2001f. Request for Environmental Impact Analysis - MUHJ 01-7014, Install 4 Comm Manholes. AF Form 813. 26 June.”</p> <p><u>Insert:</u> “Air Force. 2001g. Request for Environmental Impact Analysis - Repair Airfield Lighting Vault, Bldg. 754. AF Form 813. 14 June.”</p> <p><u>Replace:</u> “United States General Accounting Office (GAO). 1998...” with “Spargo, B.J. 1999. Environmental Effects of RF Chaff, A Selected Panel Report to the Undersecretary of Defense for Environmental Security NPL/PU/6110 - - 99-389, Washington, DC.”</p> <p><u>Insert:</u> “USFWS. 2001. Endangered and Threatened Wildlife and Plants; Final Determination of Critical Habitat for Wintering Piping Plovers; final rule. Fed. Reg. 66 (132): 36038-36143.”</p>
4-9	Eglin References	<p><u>Insert:</u> “USFWS. 2001. Endangered and Threatened Wildlife and Plants; Final Determination of Critical Habitat for Wintering Piping Plovers; final rule. Fed. Reg. 66 (132): 36038-36143.”</p>
4-9	Elmendorf References	<p><u>Revise Bostik reference to read:</u> “Bostick, D. and D. Wilcox. n.d. Integrated Natural Resources Management Plan, Elmendorf AFB, 2000-2005. Prepared by the Center for Ecological Management of Military Lands. Fort Collins, Colorado and 3<sup>rd</sup> CES, Elmendorf Air Force Base, Alaska.”</p>
<b>Appendices</b>		
AO-1-16	The paragraph starting, “Table AO-1-6 shows...”	<p><u>Sentence one. Insert after “Table AO-1-6”:</u> “...in Appendix AO-1...”</p> <p><u>Sentence one. Delete:</u> “...from NOISEFILE...”</p> <p><u>Delete second sentence.</u></p>

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AO-1-25	AO-1 References	<p><u>Insert:</u> “Davis, E. 2001. Endangered Species Specialist, U.S. Fish and Wildlife Service, Gloucester, Virginia. Personal communication with Chuck Burt, SAIC, Albuquerque, New Mexico. Dated 19 June 2001.”</p> <p><u>Insert:</u> “Lucas, M.J. and P.T. Calamia. 1996. Military Operations Area and Range Noise Model: NRNMAP User’s Manual. Final. Wright-Patterson AFB, Ohio: AMRL. A1/OE-MN-1996-0001.”</p> <p><u>Insert:</u> “United States Air Force (Air Force). 2000. Conversion of Two F-15 Fighter Squadrons to F-22 Fighter Squadrons at Tyndall AFB, Florida, Final Environmental Impact Statement. May 5, 2000.”</p> <p><u>Insert:</u> “USFWS and Virginia Department of Game and Inland Fisheries. 2001. Bald Eagle Protection Guidelines for Virginia. USFWS Gloucester, Virginia and Virginia Department of Game and Inland Fisheries, Richmond, Virginia.”</p> <p><u>Insert:</u> “Virginia Regulations. 2001. Chesapeake Bay Preservation Area Designation and Management Regulations 9 VAC 10-20-10-et seq., Draft Regulation Revisions for Board Consideration on June 18, 2001. Commonwealth of Virginia, Richmond, Virginia.”</p> <p><u>Insert:</u> “Wilcox, T. 2001. Environmental Services Biologist, Virginia Department of Game and Inland Fisheries, Richmond Virginia. Personal communication with Chuck Burt, SAIC, Albuquerque, New Mexico. Dated 21 June 2001.”</p>
AO-2-1	The paragraph starting, “ <i>Amplitude</i> . The loudest...”	<u>Revise the last sentence to read:</u> “The threshold of human hearing is approximately 0 dB, and the threshold of discomfort or pain is between 130 to 140 dB (Berglund 1995).”
AO-2-14	The paragraph starting, “An analysis sponsored...”	<u>Citation in last sentence should be:</u> “(Ollerhead <i>et al.</i> 1989).”
AO-2-16	The paragraph starting, “A recent study...”	<u>Sentence one. Replace:</u> “Sutherland 1989” <u>with</u> “Sutherland 1990”
AO-2-20	AO-2 References	<u>Insert:</u> “Berglund, B. and T. Lindvall. 1995. Community Noise. Institute of Environmental Medicine.”



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NR-1-2	Section A	<u>Insert as a new paragraph:</u> “The Coastal Zone Management Act 16 USC 1451-1464 requires that federal agency activities that directly or indirectly affect land use, water use, or natural resources in the coastal zone must be consistent to the maximum extent practicable with the policies of approved state management programs.”
NR-2-3	The row starting, “Harper’s fimbristylis...”	<u>Insert a new row after this row:</u> <u>Species:</u> “Virginia least trillium <i>Trillium pusillum</i> var. <i>virginianum</i> ” <u>Status:</u> “FSC” <u>Area of Occurrence:</u> “Forested wetlands and mesic woods including the “green sea” wetlands. Recorded from the City of Hampton.”
	The column labeled, “Areas of Occurrence”	<u>Change Bald eagle text to:</u> “Forages occasionally on base. Nests within three miles of the base.”
NR-2-5	The column labeled, “Areas of Occurrence”	<u>For Piping plover text, insert after existing sentence:</u> “Fifty-two designated critical habitat units from North Carolina south to northern Florida along mainland beaches and barrier islands.”
NR-2-12	The column labeled, “Areas of Occurrence”	<u>Revise Piping plover text to read:</u> “Winters on gulf beaches of Santa Rosa Island and Cape San Blas. Designated critical habitat unit FL-7 covers 390 acres on Eglin AFB at Cape San Blas.”
NR-2-14	The column labeled, “Areas of Occurrence”	<u>Revise Piping plover text to read:</u> “Occurs in four counties under the Tyndall MOAs in Florida. Winters on gulf beaches of Santa Rosa Island to Cape San Blas. Thirteen designated critical habitat units from Mobile Bay in Alabama to the Apalachicola area in Florida along mainland beaches and barrier islands.”
NR-2-24	The column labeled, “Areas of Occurrence”	<u>For Long-billed curlew text, replace:</u> “seedings” with “vegetation.” <u>For Northern goshawk text, delete:</u> “Does not occur on the base.” <u>For Northern goshawk text, delete note “1” after woodlands</u>
NR-2-28	The column labeled, “Areas of Occurrence”	<u>For Piping plover text revise the last sentence to read:</u> “Shell and Crooked islands included in designated wintering critical habitat covering 4,419 acres, mostly on Tyndall AFB.”

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NR-2-30	The column labeled, “Areas of Occurrence”	<u>For Piping plover text revise to read:</u> “Occurs in four counties under the Tyndall MOAs in Florida. Winters on Gulf beaches of Santa Rosa Island to Cape San Blas. Thirteen designated critical habitat units from Mobile Bay in Alabama to the Apalachicola area in Florida along mainland beaches and barrier islands.”
NR-2-35	NR-2 References	<u>Insert:</u> “USFWS. 2001. Endangered and Threatened Wildlife and Plants; Final Determination of Critical Habitat for Wintering Piping Plovers; final rule. Fed. Reg. 66 (132):36038-36143.”  <u>Insert:</u> “United States Air Force (Air Force). 1992. Environmental Assessment for the Drawdown of F-15 Aircraft at Eglin AFB, Florida. November 1992.”
NR-4-6	The paragraph starting, “Negative findings were...”	<u>Sentence nine, beginning “In addition, Broucek...”.</u> <u>Change:</u> “(Air Force 1992)” <u>to</u> “(Air Force 1993)”
NR-4-8	The paragraph starting, “A study by Davis <i>et al.</i> ...”	<u>Insert as a new paragraph after this paragraph:</u> “Maier <i>et al.</i> (1998) assessed the effects of military aircraft noise on the Delta caribou herd in interior Alaska. The study was conducted during three seasons and noise was measured by monitors attached to the caribou’s radio collars. Overall, the response of caribou to overflights was mild but modifications of activity cycles and daily movements were observed. Animals exposed to overflights showed consistent trends in increased activity and decreased resting when compared to controls. Females with young were the most sensitive group and moved significantly farther then the control group and generally left the impact area.”

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NR-4-8	The paragraph starting, “The National Park...”	<u>Insert as a new paragraph after this paragraph:</u> “A 4-year study of the effects of military aircraft overflights on Dall sheep under the Yukon 1 and 2 MOAs in Alaska began in 1999 and will be completed in 2002. The goals of this study are to (1) assess the impacts of military exercises such as Cope Thunder on Dall sheep and (2) determine the effectiveness of current mitigation measures designed to reduce negative impacts of noise on Dall sheep in interior Alaska. This study is assessing Dall sheep movement patterns, activity patterns, behavior, habitat characteristics, lambing areas, and distribution in relation to overflights in two study sites. The Cirque Lakes study site is on the Yukon-Charley Rivers National Preserve and is overlain by “mitigated airspace” where aircraft do not fly below 5,000 feet AGL from 10 May to 15 June (lambing period) while the floor is 100 feet AGL the rest of the year (National Park Service n.d). The second study site (West Point) is about 35 miles west of Cirque Lakes and no airspace mitigation measures are in effect. It is in an area that receives a higher level of military aircraft training than the Cirque Lakes site throughout the year including the Cope Thunder training exercise. Dall sheep were outfitted with Global Positioning System radio collars at each location and physical measurements such as age and pregnancy determinations were taken for each sheep captured. Aerial surveys have taken place every year to determine population size and distribution. Ground surveys took place to record sheep behavior and monitor aircraft noise levels at the two study sites. A large amount of data has been collected during three field seasons but data analysis is not yet complete (Lawler 1999, 2000a, 2000b). The current schedule calls for a final report to be submitted in 2003 (Lawler 2001a). However, observations during field surveys appear to show that the response of Dall sheep to military aircraft overflights under the mitigated and non-mitigated airspace are not readily apparent (Lawler 2001b). It needs to be stressed that the results of these observations are preliminary and the final results of this study will not be known until data analysis and interpretation is complete.”
NR-4-11	The paragraph starting, “Note that the...”	<u>Revise citation at the end of the second sentence to read:</u> “(Federal Register 1998).”
NR-4-13	The paragraph starting, “Propagation of sound...”	<u>Sentence one. Change:</u> “1981” to 1982”

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NR-4-17	The paragraph starting, "Fleischner and Weisberg..."	<p><u>Revise citation in third sentence to read:</u> "(Fleischner and Weisberg 1986)."</p> <p><u>Sentence five. Change:</u> "(1990)" to "(1989)"</p>
NR-4-18	The paragraph starting, "In a literature review..."	<p><u>Replace:</u> "(USFWS 1998a)" <u>with</u> "(USFWS 1998)."</p>
NR-4-23	NR-4 References	<p><u>Insert:</u> "Maier, J.A.K., S.M. Murphy, R.G. White, and M.D. Murphy. 1998. Responses of Caribou to Overflights by Low-Altitude Jet Aircraft. Journal of Wildlife Management 62(2):752-766."</p> <p><u>Revise reference to read:</u> "Dufour, P.A. 1980. Effects of Noise on Wildlife and Other Animals. EPA 550/9-80-100, U. S. Environmental Protection Agency, Washington DC."</p> <p><u>Insert:</u> "Stadelman, W.J. 1958. The Effect of Sounds of Varying Intensity on Hatchability of Chicken Eggs. Poultry Science 37:166-169."</p> <p><u>Insert:</u> "Lawler, J. 1999. Summary Statistics: The Effects of Military Overflights on Movement, Activity, Habitat Use, and the Behavior of Dall Sheep in Interior Alaska, November 28, 1999. National Park Service, Fairbanks, Alaska."</p> <p><u>Insert:</u> "Lawler, J. 2000a. Summary Report: The Effects of Military Overflights on Movement, Activity, Habitat Use, and Behavior of Dall Sheep in Interior Alaska, October 10, 2000. National Park Service, Fairbanks, Alaska."</p> <p><u>Insert:</u> "Lawler, J. 2000b. Summary Update: The Effects of Military Overflights on Movement, Activity, Habitat Use, and Behavior of Dall Sheep in Interior Alaska, December 7, 2000. National Park Service, Fairbanks, Alaska."</p> <p><u>Insert:</u> "Lawler, J. 2001a. Biologist, National Park Service, Fairbanks, Alaska, personal communication with Chuck Burt, SAIC, Albuquerque, New Mexico, dated August 3, 2001."</p> <p><u>Insert:</u> "Lawler, J. 2001b. Biologist, National Park Service, Fairbanks, Alaska, personal communication with Chuck Burt, SAIC, Albuquerque, New Mexico, dated August 16, 2001."</p>

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<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
NR-4-23	NR-4 References	<p><u>Insert:</u> “National Park Service. n.d. The Effects of Military Overflights on Movement, Activity, Habitat Use, and Behavior of Dall Sheep in Interior Alaska – Project Proposal. National Park Service, Fairbanks, Alaska.”</p> <p><u>Insert:</u> “Belanger, L. and J. Benard. 1989. Responses of Staging Greater Snow Geese to Human Disturbance. Journal of Wildlife Management 53(3):713-719.”</p> <p><u>Insert:</u> “Burger, J. 1986. The Effect of Human Activity on Shorebirds in Two Coastal Bays in Northeastern United States. Environmental Conservation 13(2):123-130.”</p> <p><u>Insert:</u> “Harrington, F.H. and A.M. Veitch. 1992. Calving Success of Woodland Caribou Exposed to Low-Level Jet Fighter Overflights. Arctic 45:213-218.”</p> <p><u>Insert:</u> “Mech, L. D. 1970. The Wolf: the Ecology and Behavior of an Endangered Species. The Natural History Press, Garden City, New York.”</p> <p><u>Insert:</u> “National Park Service. 1995. Report on Effects of Aircraft Overflights on the National Park System. National Park System, Washington DC.”</p> <p><u>Insert:</u> “Ward, D.H., R.A. Stehn, W.P. Erickson, and D.V. Derksen. 1999. Response of Fall-Staging Brant and Canada Geese to Aircraft Overflights in Southwestern Alaska. Journal of Wildlife Management 63(1): 373-381.”</p> <p><u>Insert:</u> “Calef, G.W., E.A. DeBock, and G.M. Lortie. 1976. The Reaction of Barren-Ground Caribou to Aircraft. Arctic 29:201-212.”</p>
CR-2-23	The paragraph starting, “Treaties between the United...”	<p><u>Revise sentence two to read:</u> “The Treaty of Ruby Valley of 1863 gave non-Indians rights to use and occupy the land and resources but did not cede Shoshone lands to the Federal Government (Air Force 1998b).”</p> <p><u>Revise sentence eight to read:</u> “Two other treaties, the Boise River Treaty of 1864, and the Bruneau Treaty of 1866, never ratified by Congress, also are used to support the contention that the tribes continue to hold claim to southwestern Idaho.”</p>

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
CR-2-24	The paragraph starting, “The Fort McDermitt...”	<p><u>Insert before this paragraph:</u> “The Shoshone-Paiute Tribes consider all of southwestern Idaho to constitute their traditional lands. Three treaties form the basis for their claims:</p> <p><b>Treaty of Ruby Valley (1863)</b></p> <p>The Treaty of Ruby Valley was negotiated on October 1, 1863 by the Western Shoshone and a special commission appointed by President Lincoln, ratified by the U.S. Senate on June 26, 1866, and proclaimed on October 21, 1869. In this treaty, the United States recognized that the Shoshone homeland included extensive lands stretching from northern Nevada to the Snake River. While the treaty indicates that non-Indians had rights to use and occupy land and resources, it did not cede Shoshone lands to the federal government. Since that time, these lands have been claimed by the United States and, for the most part, managed by the BLM.</p> <p>In 1951, the Western Shoshone Tribe sought compensation for the loss of aboriginal title to these lands. The Indian Claims Commission later held that aboriginal title had been extinguished, and the Tribe was awarded \$26 million in compensation. The Tribe refused the money, and it was placed in a trust account. In 1985, after several lower court rulings, the U.S. Supreme Court held that monies deposited into the trust account for the Western Shoshone as compensation for the treaty land constituted payment and, therefore, full discharge of all claims and demands (United States v. Dann 470 U.S. 39 [1985]). Many Shoshone continue to assert ownership of the lands based on the 1863 Treaty.</p> <p><b>Boise River Treaty (1864)</b></p> <p>On October 10, 1864, Caleb Lyon, governor and superintendent of Indian Affairs for Idaho, negotiated a treaty at Fort Boise with the Boise Shoshone. This treaty stated that all land within 30 miles of the Boise River and its tributaries would be relinquished by the Boise Shoshone and that in return they would be given hunting rights in the area in addition to a reservation. However, because of pressure from miners and homesteaders for greater access to land, this treaty was never ratified by the United States.</p>

<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
CR-2-24	The paragraph starting, “The Fort McDermitt...”	<p><b>Bruneau Treaty (1866)</b></p> <p>On April 12, 1866, the Bruneau Treaty was signed between the Bruneau Shoshone Nation and Caleb Lyon. The treaty was signed at the confluence of the Bruneau and Snake rivers. The treaty provided for Tribal cessions to the United States of the mines in the Owyhee Mountains and of lands south of the Snake River between the Owyhee River and Goose Creek. In return, the Shoshone were to receive land for a large reservation, annual payments, and other guarantees. Upon his return to Boise with the signed treaty, Governor Lyon was dismissed from office because of his unpopular Indian policies. Lyon’s successor as governor, D.W. Ballard, rejected the reservation proposal and ultimately moved the Bruneau and Boise Shoshone to Duck Valley and to the Fort Hall Reservation in southeastern Idaho. A signed original of the treaty was sent to Washington, DC, but the treaty was never ratified by the United States. The Tribes view the Bruneau Treaty as a basis for long-standing Tribal claim to this region.</p> <p><b>Summary</b></p> <p>The Shoshone-Paiute Tribes consider the southern portion of Idaho to be their homeland and do not recognize the 1985 U.S. Supreme Court decision regarding the Treaty of Ruby Valley. They believe that aboriginal title to southern Idaho was never extinguished because the Bruneau and Boise treaties were never ratified by Congress, nor was it extinguished by the Executive Order of 1877 establishing the Duck Valley Reservation.”</p>
HR-1	The subheading, “Section II”	<p><u>Insert as a new third paragraph:</u> “The Coastal Zone Management Act 16 USC 1451-1464 requires that federal agency activities that directly or indirectly affect land use, water use, or natural resources in the coastal zone must be consistent to the maximum extent practicable with the policies of approved state management programs.”</p>
PI-1-1	Letters Sent/Letters Received	<p><u>Add the following to:</u> “Letters Sent” <u>and</u> “Letters Received”</p>

**Letters Sent**

<i>Date</i>	<i>To</i>	<i>From</i>	<i>Attachments</i>
<b>U.S. Representatives</b>			
06/13/2001	U.S. Representative Virgil Goode, Jr. Washington, DC	HQ 1 <sup>st</sup> FW	N/A
<b>Bureau of Land Management (BLM)</b>			
06/15/2000	BLM Boise, ID Martha Hahn	HQ ACC/CEVP	Map of Affected Areas
06/15/2000	BLM Boise, ID Kate Kitchell	HQ ACC/CEVP	Map of Affected Areas
06/15/2000	BLM Twin Falls, ID Eddie Guerrero	HQ ACC/CEVP	Map of Affected Areas
09/29/2000	BLM Washington, DC Tom Fry	SAF/MIQ	N/A

**Letters Received**

<i>Date</i>	<i>To</i>	<i>From</i>	<i>Attachments</i>
<b>NMFS</b>			
07/10/2001	HQ ACC/CEVP	NMFS Gloucester, MA Patricia Kurkul	N/A
<b>BLM</b>			
10/24/2000	HQ ACC/CEVP	BLM Boise, ID Katharine Kitchell	N/A
06/01/2001 <sup>3</sup>	HQ ACC/CEVP	BLM Boise, ID Martha Hahn	N/A
<b>U.S. Representatives</b>			
05/31/2001 <sup>3</sup>	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	N/A
06/07/2001 <sup>3</sup>	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	N/A
06/18/2001	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	N/A



**Letters Received (continued)**

<i>Date</i>	<i>To</i>	<i>From</i>	<i>Attachments</i>
06/20/2001	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	N/A
06/25/2001	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	E-mail
06/25/2001	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	N/A
06/26/2001	HQ 1 <sup>st</sup> FW	U.S. Representative Washington, DC Virgil Goode, Jr.	Petitions
<b>USFWS</b>			
09/04/2001	HQ ACC/CEVP	USFWS Gloucester, VA Karen Mayne	N/A

Note: 3. Letter is included in Chapter 3 of this document.



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 1ST FIGHTER WING  
LANGLEY AIR FORCE BASE VA

OFFICE OF THE COMMANDER  
158 SWEENEY BLVD SUITE 200  
LANGLEY AFB VA 23065-2291

13 JUN 2001

The Honorable Virgil Goode, Jr.  
House of Representatives  
Washington, DC 20515-4605

Dear Mr. Goode:

Thank you again for writing about the concerns of your constituents in Virginia's 5<sup>th</sup> Congressional District regarding the potential for additional jet noise resulting from the F-22 beddown at Langley Air Force Base. As I drafted the response for your initial letter, I received this second request from your office and have elected to respond to both under one cover.

Since the F-22 is not yet an operational system, all program management falls under the purview of our higher headquarters. Accordingly, I have forwarded your request for information to Headquarters Air Combat Command. In turn, they will forward their response through the Air Force Office of Legislative Liaison. You should expect a response from them in the near future.

As you have noted, the request for public comments was extended, largely due to the efforts of Ms Brenda Cook, HQ ACC/CEVP. By this time, you should have received a detailed response from her office answering all of the questions you raised in your two letters. Since her office has been charged to respond to all matters regarding the F-22 Environmental Impact Study, request you forward any future questions to her office at (757) 764-9339. Your office may also contact HQ ACC Public Affairs at (757) 764-5007.

Again, thank you for your interest in Langley AFB and the F-22.

Sincerely

STEPHEN M. GOLDFSTEIN, Colonel, USAF  
Commander

*Global Power For America*



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS AIR COMBAT COMMAND  
LANGLEY AIR FORCE BASE, VIRGINIA

15 JUN 2000

MEMORANDUM FOR Bureau of Land Management  
Ms. Martha Hahn, State Director  
1387 Vinnell Way  
Boise ID 83709

FROM: HQ ACC/CEVP  
129 Andrews Street, Suite 102  
Langley AFB VA 23665-2969

SUBJECT: Initial F-22 Operational Wing Beddown EIS

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Impact Statement (EIS) to assess the potential environmental impacts of locating, or bedding down, the initial F-22 Operational Wing. The F-22 is the designated replacement for the current air superiority fighter, the F-15C. The proposed action includes the beddown of three squadrons (72 operational aircraft), personnel, and construction of facilities to support the F-22. Training would be accomplished within the existing airspace and ranges utilized by the F-15C. The Air Force is considering five alternative Air Force Bases (AFB): Langley AFB VA, Eglin AFB FL, Elmendorf AFB AK, Mountain Home AFB ID, and Tyndall AFB FL. Langley AFB is the preferred alternative. All of these bases host a current F-15C mission, have access to airspace and training ranges, possess quality training opportunities, available infrastructure, existing communication links, and established support for fighter aircraft. None of the alternatives under consideration would require expansion of existing airspace. The attachment depicts the affected areas associated with Mountain Home AFB.

2. The Air Force plans to hold several public scoping meetings throughout the affected areas to solicit public and government agency comments on the proposal and assist us in shaping the analysis. Dates, times, and locations for these meetings will be announced through newspaper notifications and other media sources accessible to the public and agencies. During the meetings, the Air Force will describe the proposed action and each alternative, the National Environmental Policy Act process, and outline the opportunities for public involvement in the process.

3. In an effort to analyze the potential impact of this proposed action, the Air Force or its contractors may be contacting you in their data collection efforts. In advance, we thank you for your assistance in this activity. If you have any specific concerns about the proposal, we would like to hear from you. Please contact the EIS Project Manager, Ms. Brenda Cook, at the above address. Ms. Cook can be reached at (757) 764-9339. Thank you for your assistance in this matter.

*Alton Chavis*  
ALTON CHAVIS

Chief, Environmental Analysis Branch

Attachment:  
Map of Affected Areas

*Global Power For America*



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS AIR COMBAT COMMAND  
LANGLEY AIR FORCE BASE, VIRGINIA

15 JUN 2000

MEMORANDUM FOR Bureau of Land Management  
Lower Snake River District  
Ms. Kate Kitchell, District Manager  
3948 Development Way  
Boise ID 83705

FROM: HQ ACC/CEVP  
129 Andrews Street, Suite 102  
Langley AFB VA 23665-2969

SUBJECT: Initial F-22 Operational Wing Beddown EIS

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*Alton Chavis*  
ALTON CHAVIS

Chief, Environmental Analysis Branch

Attachment:  
Map of Affected Areas

*Global Power For America*



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS AIR COMBAT COMMAND  
LANGLEY AIR FORCE BASE, VIRGINIA

15 JUN 2000

MEMORANDUM FOR Bureau of Land Management  
Jarbridge Field Office  
Mr. Eddie Guerrero, Field Manager  
2620 Kimberly Road  
Twin Falls ID 83301

FROM: HQ ACC/CEVP  
129 Andrews Street, Suite 102  
Langley AFB VA 23665-2969

SUBJECT: Initial F-22 Operational Wing Beddown EIS

1. The United States Air Force (Air Force) is in the process of preparing an Environmental Impact Statement (EIS) to assess the potential environmental impacts of locating, or bedding down, the initial F-22 Operational Wing. The F-22 is the designated replacement for the current air superiority fighter, the F-15C. The proposed action includes the beddown of three squadrons (72 operational aircraft), personnel, and construction of facilities to support the F-22. Training would be accomplished within the existing airspace and ranges utilized by the F-15C. The Air Force is considering five alternative Air Force Bases (AFB): Langley AFB VA, Eglin AFB FL, Elmendorf AFB AK, Mountain Home AFB ID, and Tyndall AFB FL. Langley AFB is the preferred alternative. All of these bases host a current F-15C mission, have access to airspace and training ranges, possess quality training opportunities, available infrastructure, existing communication links, and established support for fighter aircraft. None of the alternatives under consideration would require expansion of existing airspace. The attachment depicts the affected areas associated with Mountain Home AFB.

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*Alton Chavis*  
ALTON CHAVIS

Chief, Environmental Analysis Branch

Attachment:  
Map of Affected Areas

*Global Power For America*

# Initial F-22 Operational Wing Beddown Final EIS



## DEPARTMENT OF THE AIR FORCE WASHINGTON, DC

Office of the Assistant Secretary

29 SEP 2000

SAF/MIQ  
1660 Air Force Pentagon  
Washington, DC 20330-1660

Mr. Tom Fry  
Director, Bureau of Land Management  
1849 C Street, NW  
Washington, DC 20240

Dear Mr. Fry, *Tom*

The United States Air Force is in the process of preparing an Environmental Impact Statement (EIS) for the initial F-22 Operational Wing, which includes three squadrons (72 operational aircraft), personnel, and construction of support facilities.

The Air Force is considering five alternative Air Force Bases (AFBs), with Langley AFB identified as the preferred alternative. Two of the alternatives to be analyzed, Mountain Home AFB, ID and Elmendorf AFB, AK, have BLM lands located under associated airspace. Aircraft training activities would be accomplished within existing airspace and range boundaries. Therefore, the Air Force would not have a need to further withdraw public lands.

The Lower Snake River District, has expressed an interest in becoming a cooperating agency with the Air Force on this EIS. We appreciate the Snake River District's interest in this proposed action and will consider all comments received from them and other interested agencies as well as the public. However due to the nationwide diversity of locations under consideration for the various alternatives analyzed in the EIS, if BLM desires to function as a cooperating agency, we request BLM involvement at the Washington Headquarters Office with a single point of contact at the national policy level to provide consolidated BLM inputs to the environmental analysis process.

If you or your staff have any questions regarding this letter, please contact our Headquarters Air Force F-22 EIS Program Manager: Mrs. Lynn Engelman, HQ USAF/LEBI, (703) 697-7358.

Sincerely,

*Thomas W. L. McCall, Jr.*  
THOMAS W. L. MCCALL, JR.  
Deputy Assistant Secretary  
of the Air Force  
(Environment, Safety, and  
Occupational Health)

cc:  
Snake River District  
Idaho State BLM Director  
Alaska State BLM Director  
AF/LEBI

2



## UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE NORTHEAST REGION One Blackburn Drive Gloucester, MA 01930-2298

Mr. Alton Chavis, Chief  
Environmental Analysis Branch  
Department of the Air Force  
HQ ACC/CEVP  
129 Andrews Street, Suite 102  
Langley Air Force Base, Virginia 23665-2769

JUL 10 2001

Dear Mr. Chavis:

This correspondence is in regards to your October 30, 2000, and April 20, 2001, memoranda and Draft Environmental Impact Statement for the Initial F-22 Operational Wing Beddown and the potential impacts to federally listed threatened or endangered species and/or designated critical habitat for listed species. The proposed action includes the beddown of three squadrons (72 operational F-22 aircraft), personnel, and construction of facilities to support the F-22 aircraft. Training would be accomplished within airspace and ranges currently utilized by the existing aircraft fleet (the F-15C). Bedding down the F-22 at Langley Air Force Base (AFB) in Virginia is the proposed action, but Eglin AFB in Florida, Elmendorf AFB in Alaska, Mountain Home AFB in Idaho, and Tynadall AFB in Florida, are being analyzed as alternatives. The facility construction will be completed at the existing AFB on land, and will not change the in-water footprint. The over water flights associated with this proposed action will be completed above 5,000 feet Mean Sea Level (MSL), with supersonic flight completed above 10,000 feet MSL. As the proposed action is the beddown at Langley AFB, this consultation will assess the project's impacts to listed species only as applicable to Langley AFB.

Several species of endangered and threatened marine mammals and sea turtles occur in the waters under airspace used by Langley AFB. However, the altitude at which the F-22 flights will occur over water is significant, and there is no available information to suggest that the previous F-15C flights have impacted or future F-22 operations will impact listed species. Thus, the National Marine Fisheries Service (NMFS) concurs with your determination that the Initial F-22 Operational Wing Beddown at Langley AFB will have no effect on listed species under NMFS' jurisdiction. No further consultation pursuant to Section 7 of the Endangered Species Act of 1973, as amended, is required. Should project plans change or new information become available that changes the basis for this determination, consultation should be reinitiated.

Should you have any questions about these comments, please contact Carrie McDaniel at (978) 281-9388.

Sincerely,

*Patricia A. Kukul*  
Patricia A. Kukul  
Regional Administrator

cc: Darm, F/NWR3  
Hawk, F/SER3  
Schwarm, F/NER-OPF  
Smith, F/AKR3

File Code: 1514-05 (A) USAF/DOD



## United States Department of the Interior

### BUREAU OF LAND MANAGEMENT

Lower Snake River District  
Boise Field Office  
3948 Development Avenue  
Boise, Idaho 83705-5389  
<http://www.id.blm.gov>

In Reply Refer To:

IDI-31741/1790

OCT 24 2000

HQ ACC/CEVP  
Attn: Ms. Brenda Cook  
129 Andrews St., Ste. 102  
Langley AFB VA 23665-2769

Dear Ms. Cook:

The purpose of this letter is to provide comments during the Phase Two scoping period on the Air Force's intent to prepare an Environmental Impact Statement (EIS) on the proposed initial beddown of the F-22. The purpose of the Phase Two scoping period is to solicit input on issues for the environmental analysis. We understand that the comment period has been extended to October 31, 2000.

As the Air Force has described, the proposed action would replace 1 existing squadron of F-15C with F-22's and add 2 squadrons of F-22's at the Mountain Home AFB for a total of 72 F-22 fighters.

The BLM's Phase Two scoping comments focus on the need to analyze the environmental and social effects to the public land resources of the proposed initial beddown of the F-22, as well as the projected future replacement of the F-15C, at the Mountain Home AFB. The EIS should fully explore and disclose how use of the F-22 would be conducted in compliance with the local and regional airspace restrictions, as well as analyze the resulting environmental effects. Airspace restrictions were established to minimize impacts from the expansion of military airspace and the changes in use patterns resulting from increased targets and emitter sites under Enhanced Training in Idaho (ETI). It will be essential to disclose the impacts to resources of the Idaho public lands affected by the use of the F-22.

The National Environmental Policy Act (NEPA) requires the disclosure of the direct, indirect, and cumulative impacts. As direct effects, the alternative which discloses the effects of the initial beddown of the F-22 at Mountain Home AFB needs to include the construction on the base and impacts to natural, cultural, and social resources from the use of the F-22 in the ETI airspace. The alternatives that analyze the initial beddown of the F-22 at other locations need to disclose the indirect effects to the resources associated with the ETI airspace due to the likely use of the Mountain Home airspace by F-22's stationed elsewhere. All alternatives should include under cumulative effects the future replacement of the F-15C and use at all bases as the replacement of the F-15C is a reasonably foreseeable action. In addition to the direct effects of the proposal to initially

beddown the F-22 at the Mountain Home AFB, the indirect and cumulative effects to the resources from the use of the F-22 in the ETI airspace will need to be analyzed and disclosed through the EIS process.

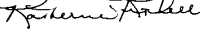
In addition to the disclosure of effects, NEPA also requires Federal agencies to make diligent efforts to obtain meaningful public involvement. Given that over 1,300 written comments were received in 1997 on the Final EIS for ETI, it is anticipated that there will be public interest in the Air Force's activities in Idaho. It is dependent on Air Force efforts to develop substantive public participation.

The resources of the public lands of most concern are: wildlife, recreation, and cultural resources. The most significant cause and effect relationship that the EIS will need to disclose relate to the increased noise of the F-22. Wildlife species potentially affected in the Mountain Home airspace include: sage grouse, ferruginous hawk, and bighorn sheep. Recreationists across southwest Idaho may also be affected by the increased noise associated with the F-22. Cultural resources, including traditional sites of importance to the Tribes, may also be affected.

As the Air Force continues the environmental analysis process in preparation of this EIS, please take into consideration previous commitments that have not yet been accomplished. In regard to the Mountain Home AFB, these commitments include: development of the Memorandum of Agreement (MOA) for the ETI EIS cooperating agencies; initiation of semiannual meetings of the ETI EIS cooperating agencies; and discussion and resolution of five additional subject areas (chaff, special status species, Native American traditional cultural and sacred sites, deviation from commitments, and refinement of the agreement) identified as unresolved at the time of the Supplement to the ETI Record of Decision in September 1998.

Sharon Paris, BLM Military Liaison, is available to coordinate dialogue and communication between Idaho BLM and Air Force in this process. Please contact Ms. Paris at (208) 384-3315. We would also appreciate being placed on your mailing list to receive updates, press releases, and further information during the Environmental Impact Analysis Process.

Sincerely,



Katherine Kitchell  
District Manager

cc: Idaho BLM State Director  
BLM Washington Office

VIRGIL H. GOODE, JR.  
5TH DISTRICT, VIRGINIA

**Congress of the United States**  
**House of Representatives**  
Washington, DC 20515-4605

May 31, 2001

Colonel Stephen Goldfein, Commander  
Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

I write at the request of several constituents in Farmville, Virginia who have contacted my office following the Public Hearing on the Draft Environmental Impact for the Initial F-22 Operational Wing Beddown that Langley Air Force Base representatives held in the Farmville Train Station on Tuesday, May 29, 2001.

It has been reported to me that the meeting concerned potential changes in the use of Langley's Military Operations Area, which includes Farmville and other parts of the Fifth Congressional District. As I understand the possible changes, the amount of training flights could grow from 400 to 600, and the number of fighter planes housed at Langley could grow substantially.

I have been told that of the five potential sites that have been researched in the United States, Langley is the preferred site for these changes and expansions. I would appreciate any material that you could send to my Farmville office concerning the proposed changes in the Farmville area's use as a Military Operations Area.

I understand that the period for public comment on the proposed changes in MOA's is to end June 10, 2001. On behalf of my constituents in the Fifth Congressional District, I respectfully request an extension to this public comment period.

I also ask that my office be notified of any future meetings held in the Fifth District. If possible, I, or a representative from my office, will be there.

PRINTED ON RECYCLED PAPER

VIRGIL H. GOODE, JR.  
5TH DISTRICT, VIRGINIA

**Congress of the United States**  
**House of Representatives**  
Washington, DC 20515-4605

June 7, 2001

Colonel Stephen Goldfein, Commander  
Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

I write again regarding the concerns of constituents in Farmville, Virginia who have contacted my office following the Public Hearing on the Draft Environmental Impact for the Initial F-22 Operational Wing Beddown that Langley Air Force Base representatives held in the Farmville Train Station on Tuesday, May 29, 2001.

I respectfully ask that you reconsider Langley's plans to increase the number of flights in the Farmville Military Operations Area. The proposed increase from 400 flights to 600 flights is not acceptable to many of my constituents.

I also ask that you make every effort to make Langley's part in the management and use of the Farmville MOA clear to citizens in the Farmville area. It has become confusing and troubling to many constituents that the Farmville MOA is available for flights from other military bases in Virginia and the East Coast.

The Fifth Congressional District is a mostly rural area with fiercely patriotic citizens. I think you will find that citizens in the district want a strong national defense and want to do their part toward making the men and women who defend our country more experienced and better trained. As I understand my constituents' concerns, the problem lies primarily with the proposed increase and changes in activity.

In my May 31, 2001 letter to you I asked that you extend the public comment period. I very much appreciate your extension of the deadline for submitting public comments on the F-22 Draft Environmental Impact Statement from June 10, 2001 until June 25, 2001.

PRINTED ON RECYCLED PAPER

If you have questions or want to forward further information to me, do not hesitate to call Sarah Terry in my Farmville, Virginia office. Ms. Terry will be happy to speak with you.

Thank you very much for your consideration of my constituents in the Fifth Congressional District. I look forward to hearing from you.

Most sincerely,



Virgil H. Goode, Jr.

Copy to:

Ms. Brenda Cook, Program Manager  
F22 Draft Environmental Impact Statement  
HQ ACC Flash CEVP  
129 Andrews Street, Suite 102  
Langley Air Force Base, VA 23665-2769

Ms. Diane Obler

Mr. Steve Wall, Publisher  
The Farmville Herald  
114 North Street  
Farmville, VA 23901

Mr. John Vaughan

103 South Main Street  
Farmville, VA 23901  
804--392-8331 FAX 392-6448

## Initial F-22 Operational Wing Beddown Final EIS

Thank you for your consideration of my constituents.  
I look forward to hearing from you regarding their  
concerns. With warm regards, I am

Most sincerely,

*Virgil Goode Jr.*  
Virgil Goode, Jr.

Copy to:

Ms. Brenda Cook, Program Manager  
F22 Draft Environmental Impact Statement  
HQ ACC Flash CEVP  
129 Andrews Street, Suite 102  
Langley Air Force Base, VA 23665-2769

Ms. Nancy Lockwood  
[REDACTED]

Ms. Diane Obler  
[REDACTED]

Mr. Steve Wall, Publisher  
The Farmville Herald  
114 North Street  
Farmville, VA 23901

Mr. John Vaughan  
[REDACTED]

Ms. Ruth Wilcox  
[REDACTED]

103 South Main Street  
Farmville, VA 23901  
434-392-8331 FAX 392-6448

VIRGIL H. GOODE, JR.  
5th District, Virginia

Congress of the United States  
House of Representatives  
Washington, DC 20515-4605

June 18, 2001

Colonel Stephen Goldfein, Commander  
Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

Enclosed please find a copy of a resolution of the  
board of supervisors of Prince Edward County regarding the  
U.S. Air Force F-22 Operational Wing Beddown. The  
resolution was approved following the June 12, 2001 meeting  
of the board of supervisors, during which citizens  
expressed disapproval and misunderstanding of the possible  
changes in the use of the Farmville Military Operations  
Area.

You have graciously acknowledged and approved my  
previous request for a June 25, 2001 extension to the  
public comment period. I now ask that you give every  
consideration to Prince Edward County's request for an  
additional extension to July 10, 2001. I also ask that you  
respond favorably to the board's request to hold another  
public informational meeting in Prince Edward County.

Thank you for your consideration of my constituents in  
the Fifth Congressional District. With kind regards, I am

Sincerely,

*Virgil Goode Jr.*  
Virgil Goode, Jr.

103 South Main Street  
Farmville, VA 23901  
434-392-8332 FAX 392-6448

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VIRGIL H. GOODE, JR.  
5th District, Virginia

Congress of the United States  
House of Representatives  
Washington, DC 20515-4605

June 20, 2001

Colonel Stephen Goldfein, Commander  
Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

I wanted to share with you a letter written to me by Angela Whittaker expressing  
her opposition to having the F-22's flying over Farmville. Ms. Whittaker lives in the  
Farmville Military Operations Area. As I have expressed to you in the past, I hope that  
you will not be sending the F-22's over Farmville and other areas in our part of Virginia.  
Thank you for your consideration and I hope you will heed my concern, the concerns of  
Ms. Whittaker and the concerns of many other residents about this problem. With kind  
regards, I am

Sincerely yours,

*Virgil Goode Jr.*  
Virgil Goode, Jr.

VHGjr/sas  
Cc: Ms. Angela Whittaker  
[REDACTED]

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VIRGIL H. GOODE, JR.  
5th District, Virginia

Congress of the United States  
House of Representatives  
Washington, DC 20515-4605

June 25, 2001

Colonel Stephen Goldfein, USAF  
Commander, Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

Mr. Mark Daniel of Keysville, Virginia sent me the enclosed e-mail concerning  
flights over portions of the 5<sup>th</sup> District of Virginia. I have expressed to you my concern  
about and opposition to these flights. I thought Mr. Daniel made some excellent points in  
his e-mail.

With kind regards, I am

Sincerely yours,

*Virgil Goode*  
Virgil H. Goode

VHGjr/reh

Cc: Mr. Mark Daniel  
[REDACTED]

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Hance, Tom

From: M.D.  
Sent: Friday, June 22, 2001 9:17 AM  
To: Goode, Rep  
Subject: Farmville MOA

Dear Congressman Goode,

I write to you with great concern and displeasure over an issue which has many residents in the Farmville Military Operations Area concerned. This is the matter of low flying United States Air Force fighter jets. As you may know local newspapers are carrying stories regarding the disturbance these aircraft are causing in the Farmville area. I am sure you also know about the petition drive against this activity.

I live next to Keysville and these aircraft fly over my house (literally) like clock work most nights (9:00 pm to 9:30 pm). They are flying very low, perhaps below safe standards, and at a very high rate of speed. If you have not experienced this noise I cannot begin to relate to you what it is like. It is more than a noise, it pierces one to the core. I cannot imagine what effect this has on small children and the elderly. Also I hear it causes problems with local livestock and perhaps even wildlife. I am positive it will lower property values in an area of Virginia which can least afford that!!!

I lived in Farmville for ten years and now at Keysville for four years and I do not recall the USAF operating in this aggressive manner before, especially so late in the evening. The C-17 cargo aircraft which also fly in the area do not cause nearly such a disturbance though they do create noise. Naturally they are a different type with different characteristics. I mention this as I am not against military training ideologically and I wish to demonstrate that I can discern what operations are taking place. I also realize that these F-15's do not have to cruise home at high speed and low altitude.

I was reared in Kenbridge not far from Ft Pickett, summertime artillery practice and military aircraft were a regular sound on summer evenings. We all realized the value of the post and the training it conducted. The manner in which USAF is carrying out this training is UNACCEPTABLE and in my opinion reckless and without regard to the local populace. It puts into context for us the concerns of the Puerto Ricans.

I know military training is necessary to maintain our security and quality of life, (my father served for 35 years). I do not feel that that the general quality of life is being served or protected by denigrating the quality of life for Southside VA residents. Please remind USAF, Congressional military committees and the urban areas that rural Virginia is part of the country too and we deserve the same respect as other citizens. If these sorties were being flown over other peoples' homes (urbanites/wealthy) the problem would be rectified immediately.

1

Please use your voice as our Congressional Representative and do not let them dismiss our concerns or merely give us patronizing rhetoric. We are a part of this country that historically supports the military with little or no complaint. I am sure some adjustment and accommodation can be made to our and USAF's mutual benefit. Please do not let those unfamiliar with this area harden their opinions or think we are just a bunch of "hicks in the sticks" to be ignored.

Sincerely,

Mark C. Daniel

[REDACTED]

[REDACTED]

2

VIRGIL H. GOODE, JR.  
5th DISTRICT, VIRGINIA

**Congress of the United States**  
**House of Representatives**  
Washington, DC 20515-4605

June 25, 2001

Colonel Stephen Goldfein, USAF  
Commander, Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

I am continuing to receive communications from Fifth District constituents in opposition to F-22 flights from Langley over Farmville, Prince Edward County, and other areas in the Fifth District. I want to reiterate my opposition to these flights and urge that every consideration be shown to preventing and stopping them over this area.

I also concur with the Prince Edward County Board of Supervisors in asking for additional time for public comment and in asking for a public hearing to be held by the Air Force in the Farmville area.

Thank you again for your consideration of all the opposition to the F-22 flights over our area. With kind regards, I am

Sincerely yours,

*Virgil H. Goode, Jr.*  
Virgil H. Goode, Jr.

VHGjr/rjv  
Enclosures

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VIRGIL H. GOODE, JR.  
5th DISTRICT, VIRGINIA

**Congress of the United States**  
**House of Representatives**  
Washington, DC 20515-4605

June 26, 2001

Colonel Stephen Goldfein, USAF  
Commander, Langley Air Force Base  
159 Sweeney Boulevard  
Langley Air Force Base, VA 23665

Dear Colonel Goldfein:

I am continuing to receive communications and petitions in opposition to the F-22 flights over the Farmville MOA. Enclosed for your information is a letter by Mr. Douglas M. Young and a copy of a number of petitions in opposition to these flights. I wish to reiterate my opposition to these flights and urge that you show every consideration to the signers of the enclosed petitions.

Sincerely yours,

*Virgil H. Goode*  
Virgil H. Goode

VHGjr/rjv

Cc: Mr. Douglas M. Young

[REDACTED]

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# Initial F-22 Operational Wing Beddown Final EIS

June 22, 2001

Rep. Virgil Goode  
1520 Longworth House Office Building  
U. S. House of Representatives  
Washington, D.C. 20515-4605

Dear Mr. Goode,

I enclose more petitions from the Farmville MOA requesting its closure after 17 years (!), and requesting that the new F22 train elsewhere and not in the Farmville MOA.

I hope that we may count on you to support the wishes of these petitioners who represent only a handful of the people in this area who join in support of this petition.

Thank you for your attention and any action you might take in support of your petitioners.

Sincerely,  
*Douglas M. Young*  
Douglas M. Young

Petition to Representative Goode, to Senators Warner and Allen, and to the Secretaries of the Air Force and Navy to stop present and proposed additional fly-overs in the Farmville area by low-flying military fighter aircraft.

Whereas we, the undersigned citizens living in the Farmville area, find our quality of life already negatively impacted by the noise pollution generated by low-flying military aircraft in this Military Operations Area, and

Whereas we anticipate an increase in the overall level of noise and environmental pollution coming from military aircraft in the coming years, and

Whereas the negative impact of the noise and emissions on domestic and wild life has been documented,

Therefore, we the undersigned

- 1: Reject the proposed basing of the new F22 fighter aircraft at Langley A.F.B.
- 2: Demand that the Farmville Military Operations Area (MOA) be closed.
- 3: Demand that overflights by low-flying military aircraft cease.
- 4: Ask that the Air Force be required to give timely and fair compensation to those people who sustain damage to property and livestock as a result of such overflights.

Signature	Name, printed	Address / City / Zip
<i>Douglas M. Young</i>	Douglas M. Young	
<i>Jean P. Shell</i>	Jean P. Shell	
<i>Frieda E. Myers</i>	FRIEDA E. MYERS	
<i>Allison M. Cummings</i>	ALLISON M. CUMMINGS	
<i>Vilma C. Witten</i>	VILMA C. WITTEN	
<i>Angela Rogers</i>	Angela Rogers	
<i>Kylie Brown</i>	Kylie Brown	
<i>Sandra Trent</i>	Sandra Trent	
<i>W. John Green</i>	W. John Green	
<i>Frada McComb</i>	Frada McComb	
<i>April Hurley</i>	April Hurley	
<i>Nancy Bell</i>	NANCY BELL	
<i>Rebecca Calkins</i>	Rebecca Calkins	
<i>Linda C. Williams</i>	Linda C. Williams	
<i>Elizabeth M. Steward</i>	Elizabeth M. Steward	

Petition to Representative Goode, to Senators Warner and Allen, and to the Secretaries of the Air Force and Navy to stop present and proposed additional fly-overs in the Farmville area by low-flying military fighter aircraft.

Whereas we, the undersigned citizens living in the Farmville area, find our quality of life already negatively impacted by the noise pollution generated by low-flying military aircraft in this Military Operations Area, and

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Signature	Name, printed	Address / City / Zip
<i>Sarah V. Young</i>	SARAH V. YOUNG	
<i>Teri D. Kidd</i>	Teri D. Kidd	
<i>W.C. Woods</i>	W.C. WOODS	
<i>H.B. Addlema</i>	H.B. ADDLEMA	
<i>Sandra Beil</i>	Sandra Beil	
<i>Patricia Lust</i>	PATRICIA LUST	
<i>Holly West</i>	HOLLY WEST	
<i>Don Merkle</i>	DON MERKLE	
<i>HARRIST H. HLAD</i>	HARRIST H. HLAD	
<i>LAWRENCE H. HLAD</i>	LAWRENCE H. HLAD	
<i>JAMES WRIGHT</i>	JAMES WRIGHT	
<i>AVIS ADDLEMAN</i>	AVIS ADDLEMAN	
<i>ANDREW BORTH</i>	ANDREW BORTH	
<i>William D. Jones</i>	William D. Jones	
<i>Beth L. Harris</i>	Beth L. Harris	

Petition to Representative Goode, to Senators Warner and Allen, and to the Secretaries of the Air Force and Navy to stop present and proposed additional fly-overs in the Farmville area by low-flying military fighter aircraft.

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Signature	Name, printed	Address / City / Zip
<i>Yvonne Brown</i>	YVONNE BROWN	
<i>Cecilia Culler</i>	Cecilia Culler	
<i>Linda B. Reid</i>	Linda B. Reid	
<i>Ethel Cox</i>	ETHEL COX	
<i>Abigail H. O'Connor</i>	Abigail H. O'Connor	
<i>BRENDAN O'CONNOR</i>	BRENDAN O'CONNOR	
<i>Nancy Krippl</i>	Nancy Krippl	
<i>Julia Harnoy</i>	Julia Harnoy	
<i>David Harnoy</i>	David Harnoy	
<i>Zori Bowers</i>	Zori Bowers	
<i>Randal Johnson</i>	Randal Johnson	
<i>Brenda Fiquerson</i>	Brenda Fiquerson	
<i>Donna Simpson</i>	Donna Simpson	
<i>Patricia Martin</i>	Patricia Martin	
<i>Fileen Connors</i>	Fileen Connors	



United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Ecological Services  
6669 Short Lane  
Gloucester, VA 23061



September 4, 2001

Ms. Brenda Cook  
Headquarters Air Combat Command: CEVP  
129 Andrews Street, Suite 102  
Langley Air Force Base, Virginia 23665-2769

Re: F-22 Operational Wing Beddown,  
Langley Air Force Base, City of  
Hampton, Virginia


Dear Ms. Cook:

The U.S. Fish and Wildlife Service (Service) has reviewed the U.S. Air Force's (USAF) Draft Environmental Impact Statement (DEIS) for the Initial F-22 Operational Beddown, ER 01/0305. We have reviewed your request for information on federally listed and proposed endangered and threatened species and designated critical habitat for the above referenced project. The following comments are provided under provisions of the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

USAF proposes to locate F-22 squadrons at one of five Air Force Bases (AFB), and Langley AFB, Virginia is the preferred alternative. We conducted a site visit on August 31, 2001 at Langley AFB. Based on the project description and location, it appears that no impacts to federally listed or proposed species or critical habitat will occur. Should project plans change, or if additional information on the distribution of listed or proposed species or designated critical habitat becomes available, this determination may be reconsidered.

If you have any questions, please contact Mr. Eric Davis of this office at (804) 693-6694, extension 104.

Sincerely,

  
for Karen L. Mayne  
Supervisor  
Virginia Field Office



## ***Initial F-22 Operational Wing Beddown Final EIS***

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<i>Draft EIS</i>		<i>Errata</i>
<i>Page Number</i>	<i>Location</i>	
PI-2-12	Ninth row, middle column	<u>Replace:</u> “State of Virginia” <u>with</u> “Commonwealth of Virginia”
<b>Other References<sup>1</sup></b>		
		<p>Armstrong Laboratories (AL/OE-MN) 1996. Military Operating and Range Noise Model MR_NMAP. Occupational and Environmental Health Directorate, Bioenvironmental Engineering Division, Noise Effects Branch, Wright-Patterson AFB, Ohio.</p> <p>Committee on Hearing, Bioacoustics, and Biomechanics. 1977. Guidelines for Preparing Environmental Impact Statement on Noise. Committee on Hearing, Bioacoustics, and Biomechanics. The National Research Council. National Academy of Sciences.</p> <p>Kryter, K.D. 1970. The Effects of Noise on Man. Chapter 9, Academic Press.</p> <p>Sutherland, L. and J. Czech. 1992. Evaluation of Human Response to Structural Vibration Induced by Sonic Boom. NASA Conference Publication 3172. February.</p> <p>Sataloff, R.T. and J. Sataloff. 1993. Occupational Hearing Loss. Published by Marcel Dekker, Inc. 2<sup>nd</sup> Edition.</p> <p>USEPA. 1973. Public Health and Welfare Criteria for Noise. 550/9-73-002, Chapter 5.</p>

Note: 1. These references represent citations included in Chapter 3 of this document that were not otherwise included in the Draft EIS, Volumes 1 and 2 or this Chapter.

