

**TRANSFORMATION OF U.S. ARMY ALASKA  
SUMMARY OF CHANGES BETWEEN DEIS AND FEIS**

**EXECUTIVE SUMMARY THROUGH CHAPTER 2**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
Throughout EIS	Executive Summary, Chapters 1-9, Appendices A-I	Changed Legacy Force to Current Force, and Objective Force to Future Force.
ES-2	Executive Summary	Identified preferred alternative.
ES-2, ES-3	Executive Summary	Added new text to describe the major conclusions of the three alternatives considered in the EIS.
ES-4, ES-5, ES-6, ES-7, ES-8	Executive Summary	Impact categories were updated to be consistent with changes in document.
1-2	Chapter 1 1.1 Purpose of and Need for Action	Text was modified to better describe Army transformation.
1-2	Chapter 1 1.1 Purpose of and Need for Action	Text was modified to update transformation terminology and clarify description.
1-3	Chapter 1 1.1 Purpose of and Need for Action 1.1.1 Location	General location description was added.
1-5	Chapter 1 1.1 Purpose of and Need for Action Figure 1.1.b	Added general location map.
1-12, 1-13	Chapter 1 1.1 Purpose of and Need for Action 1.10 Other Environmental Analyses Relevant to the Action	List of documents updated.
2-6, 2-7	Chapter 2 2.2.1.2 Construction (Alt. 1) Table 2.2.b	Table 2.2.b was revised to provide information on timing of mission essential construction projects.
2-7	Chapter 2 2.2.1.3.1 Mission (Alt. 1)	Text was added to clarify the U.S. Air Force's use of USARAK lands and airspace for routine training, Major Flying Exercises and Joint Training Exercises.
2-8	Chapter 2 2.2.1.3.3 Impact Areas (Alt. 1)	For clarification, the acreage of impact areas (281,093 acres) on USARAK lands was added to the document.

**EXECUTIVE SUMMARY THROUGH CHAPTER 2 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
2-9, 2-10	Chapter 2 2.2.1.3.5 Maneuver Training Training Load (Alt. 1)	Additional information on MIMs was added to Chapter 2 text, including: “MIMs were calculated for each alternative as an attempt to compare varying levels of training intensity (Table 2.2.f). For further information on MIMs, refer to Appendix F.”
2-10	Chapter 2 2.2.1.3.5 Maneuver Training Training Capacity (Alt. 1)	Information about training capacity, discussed in Sections 3.19 and 4.19 (Infrastructure) of the DEIS, was added to Chapter 2 to improve clarity of FEIS. Also, quantitative data on Maneuver Impact Miles capacity were added to Table 2.2.f.
2-11	Chapter 2 2.2.1.4.1 Weapons Systems and Vehicles (Alt. 1) Table 2.2.g	Weapons systems numbers were revised in Table 2.2.g.
2-11, 2-12	Chapter 2 2.2.1.5.1 Deployment Within Alaska (Alt. 1) and Table 2.2.h	Additional information on deployment miles was provided, and Table 2.2.h was revised.
2-12	Chapter 2 2.2.1.6 Institutional Matters (Alt. 1)	Reference to ongoing USARAK mitigation programs was added to Chapter 2, and a new appendix (Appendix H was added to the FEIS).
2-13, 2-14	Chapter 2 2.2.1.6.4 Integrated Training Area Management (Alt. 1)	Additional information on the Integrated Training Area Management (ITAM) program was added to explain ongoing USARAK environmental programs that have been implemented to ensure sustainability of resources.
2-17	Chapter 2 2.2.2.3.1 Mission (Alt. 2)	Additional text on USARAK’s mission was added.
2-19	Chapter 2 2.2.2.3.5 Maneuver Training Training Capacity (Alt. 2)	Information about training capacity, discussed in Sections 3.19 and 4.19 (Infrastructure) of the DEIS, was added to Chapter 2 to improve clarity of FEIS. Also, quantitative data on Maneuver Impact Miles capacity were added to Table 2.2.1.
2-20	Chapter 2 2.2.2.4.1 Weapons Systems and Vehicles (Alt. 2) Table 2.2.m	Weapons systems numbers in Table 2.2.m were revised.
2-20, 2-21	Chapter 2 2.2.2.5.1 Deployment Within Alaska (Alt. 2) and Table 2.2.n	Additional information on deployment miles was provided, and Table 2.2.n was revised.
2-23	Chapter 2 2.2.3.1 Stationing (Alt. 3)	Table 2.2.o was revised to show interim and end-state stationing numbers.
2-26	Chapter 2 2.2.3.3.1 Mission (Alt. 3)	Additional text on USARAK’s mission was added.

**EXECUTIVE SUMMARY THROUGH CHAPTER 2 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
2-27, 2-28	Chapter 2 2.2.3.3.5 Maneuver Training Training Capacity (Alt. 3) Table 2.2.s	Information about training capacity, discussed in Sections 3.19 and 4.19 (Infrastructure) of the DEIS, was added to Chapter 2 to improve clarity of FEIS. Also, quantitative data on Maneuver Impact Miles capacity were added to Table 2.2.s.
2-28	Chapter 2 2.2.3.3.5 Maneuver Training Training Capacity (Alt. 3) Table 2.2.s	The maneuver space and MIMs data for FWA Main Post, YTA, Gerstle River and FRA were revised in Table 2.2.s.
2-29	Chapter 2 2.2.3.4.1 Weapons Systems and Vehicles (Alt. 3) Table 2.2.t	Data in Table 2.2.t were revised.
2-29, 2-30	Chapter 2 2.2.3.5.1 Deployment Within Alaska (Alt. 3) and Table 2.2.u	Additional information on deployment miles was provided, and Table 2.2.u was revised.
2-31 through 2-37	Chapter 2 2.2.3.7.1 Existing Mitigation 2.2.3.7.2 Proposed Mitigation	Existing and proposed mitigation measures were modified. Many of the proposed mitigations in the DEIS were actually existing. Also see Chapter 4 resource sections for specific changes.
2-39	Chapter 2 2.2.4.1 Stationing (Alt. 4)	Table 2.2.v was revised to include interim and end-state stationing.
2-39	Chapter 2 2.2.4.3 Training (Alt. 4) 2.2.4.3.1 Mission (Alt. 4)	Additional text on USARAK's mission was added.
2-41	Chapter 2 2.2.4.3.5 Maneuver Training Training Capacity (Alt. 4) and Table 2.2.y	Information about training capacity, discussed in the Section 3.19 and 4.19 Infrastructure of the DEIS, was added to Chapter 2 to improve clarity of FEIS. Also, quantitative data on Maneuver Impact Miles capacity were added to Table 2.2.y.
2-42	Chapter 2 2.2.4.4.1 Weapons Systems and Vehicles (Alt. 4)	Data in Table 2.2.z were revised.
2-42	Chapter 2 2.2.4.5.1 Deployment Within Alaska (Alt. 4)	Additional information on deployment miles was provided, and Table 2.2.aa was revised.
2-45, 2-46	Chapter 2 2.3 Summary Of Transformation Actions Common To The Alternatives Table 2.3.a	Some data or information for stationing, training mission, MIMs capacity, systems acquisition, or deployments were revised in Table 2.3.a.

**EXECUTIVE SUMMARY THROUGH CHAPTER 2 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
2-50, 2-51	Chapter 2 2.3.6.2 Unmanned Aerial Vehicle (UAV)	Additional background information on the UAV was provided.
2-55	Chapter 2 2.4 Description Of Alternatives Considered And Eliminated From Detailed Study Table 2.4.a	Table 2.4.a was revised to provide clarity.
2-59 through 2-64	Chapter 2 2.5 Comparison Of Alternatives And Environmental Consequences Table 2.5.a	Table 2.5.a was revised to ensure consistency with Chapter 4 revisions regarding impacts of transformation on resources and issues.
2-65	Chapter 2 2.6 Identification Of The Preferred Alternative	Identification of the preferred alternative is provided in the FEIS.

### CHAPTER 3

Page in FEIS	Section	Changes Made
3-27	3.4 Soil Resources 3.4.3.2 Permafrost (DTA)	Replaced “At present, very little is known about... permafrost on DTA.” With: “Ecotypes on DTA where permafrost is likely to exist include Alpine Rocky Dry Dwarf Scrub, Alpine Wet Tussock Meadow, Alpine Wet Low Scrub, Upland Wet Needleleaf Forest, Lowland Wet Needleleaf Forest, and Riverine Wet Meadow (Jorgenson et al. 2001).”
3-48	3.7 Wetlands	Replaced terms: “high-function” and “low-function” with “sensitive” and “non-sensitive” to be consistent with wetlands permit and maps.
3-49	3.7 Wetlands	Added description of USARAK wetland permit (and new figures 3.7.a, 3.7.b, 3.7.c in Appendix A) to describe training restrictions already in place.
3-65	3.9 Wildlife and Fisheries 3.9.1.1 Wildlife	Text regarding records of furbearer trapping and bear harvest was modified.
3-70	3.9 Wildlife and Fisheries 3.9.2.1.1 Mammals (FWA) Large Mammals	Text in section describing distribution and populations of moose in GMU 20A and B was revised and updated (Figure 3.9.b in Appendix A was also updated).
3-70	3.9 Wildlife and Fisheries 3.9.2.1.1 Mammals (FWA) Large Mammals	Information regarding grizzly bear sightings at TFTA was changed. Grizzly bears have been seen on post, but none have been harvested since 1997.
3-71	3.9 Wildlife and Fisheries 3.9.2.1.1 Mammals (FWA) Furbearers and Small Mammals	Text regarding records of snowshoe hare population fluctuations was modified.
3-72	3.9 Wildlife and Fisheries 3.9.2.1.2 Avian Species (FWA) Upland Game Birds	Text regarding records of grouse harvest was modified.
3-72	3.9 Wildlife and Fisheries 3.9.2.1.2 Avian Species (FWA) Waterfowl and Cranes	The total number of waterfowl species was revised to reflect recent survey data.
3-75	3.9 Wildlife and Fisheries 3.9.2.2.1 Fish Stocking (FWA)	Monterey Lake #1 and #2 were improperly listed in the DEIS. In the FEIS these are named Weigh Station Pond #1 and #2.
3-78	3.9 Wildlife and Fisheries 3.9.3.1.1 Mammals (DTA) Large Mammals	Reference to Dall sheep harvest rates on DTA was removed because the harvest numbers were not known.
3-77 through 3-80	3.9 Wildlife and Fisheries 3.9.3.1.1 Mammals (DTA) Large Mammals	Section describing distribution and populations of large mammals in GMU 20D was revised and updated to reflect current distributions of Dall sheep, bison, and caribou (Figures 3.9.d and 3.9.e in Appendix A were also updated).

**CHAPTER 3 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
3-79	3.9 Wildlife and Fisheries 3.9.3.1.1 Mammals (DTA) Large Mammals	Text was added to provide information about bison food plots at DTA.
N/A	3.9 Wildlife and Fisheries 3.9.3.2.2 Wild Fisheries (DTA)	Deleted text that referred to shallowness of DTA ponds and lack of winter survivability of most fish. This was not accurate.
3-82	3.9 Wildlife and Fisheries 3.9.3.2.1 Fish Stocking (DTA)	Text was modified to explain that escaped stocked fish is not a management issue, but USARAK takes measures to prevent encroachment by northern long-nosed suckers.
3-83	3.9 Wildlife and Fisheries 3.9.3.2.2 Wild Fisheries (DTA)	There is no fish stocking at Gerstle River and Black Rapids, but reference to fish stocking at these sites was moved from 3.9.3.2.2 to 3.9.3.2.1.
N/A	3.9 Wildlife and Fisheries 3.9.3.2.2 Wild Fisheries (DTA)	Deleted sentence because statement was not accurate: “While some lakes and ponds on DTA have naturally occurring populations of lake chub, northern pike, sculpin, and suckers, most are too shallow or oxygen deficient during winter to support fish.”
3-83	3.9 Wildlife and Fisheries 3.9.4.1 Wildlife (FRA) Table 3.9.e	For late season moose hunting at FRA, under harvest limits, the statement “1 bull by bow and arrow only” was added to Table 3.9.e.
3-85	3.9 Wildlife and Fisheries 3.9.4.1.1 Mammals (FRA) Large Mammals	Text regarding black bear, grizzly bear, and moose was corrected or clarified, per suggestions by Alaska Department of Fish and Game (also see Agency Comments in Chapter 9).
N/A	3.9 Wildlife and Fisheries 3.9.4.1.1 Mammals (FRA) Large Mammals	Text regarding bottlenosed dolphins was deleted because these animals do not inhabit Cook Inlet.
3-85, 3-86	3.9 Wildlife and Fisheries 3.9.4.1.1 Mammals (FRA) 3.9.4.1.2 Avian Species (FRA)	Added text describing the distribution of moose and waterfowl (also added distribution maps, Figures 3.9.g and 3.9.h, in Appendix A).
3-86	3.9 Wildlife and Fisheries 3.9.4.1.1 Mammals (FRA) Large Mammals	The text in the FEIS mentions that harbor seals are occasionally observed near FRA.
3-87	3.9 Wildlife and Fisheries 3.9.4.1.2 Avian Species (FRA) Passerines	Text was modified to indicate that Townsend’s warbler and golden-crowned sparrow are confirmed and common species at FRA.
3-91, 3-92	3.10 Threatened or Endangered Species and Species of Concern	Added a paragraph to clarify difference between federal and state listings of threatened, endangered, and species of concern.

**CHAPTER 3 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
3-91, 3-93 through 3-95	3.10 Threatened or Endangered Species and Species of Concern 3.10.2 FWA 3.10.3 DTA 3.10.4 FRA	To indicate no threatened or endangered species exist on USARAK lands: Added on page 3-91: “No federally threatened or endangered species have been found on USARAK lands (USARAK 2002e,f,g).” Moved the following statement to the first line of each installation section: “No known federally endangered or threatened species on [FWA, DTA, FRA], but there are a number of rare, uncommon, or priority species.”
3-92	3.10 Threatened or Endangered Species and Species of Concern 3.10.1 T&E Species Topics 3.10.1.2 Wildlife and Fish Table 3.10.a	Table 3.10.a modified: Removed all species not found on USARAK lands from the table; referred reader to Section 3.9 for discussion of beluga whale; updated footnotes.
3-94	3.10 Threatened or Endangered Species and Species of Concern 3.10.2 Fort Wainwright 3.10.2.2 Wildlife and Fish Table 3.10.b	Updated Table 3.10.b to include species of concern and sensitive species found on all USARAK lands (FWA, DTA, and FRA).
3-102	3.11 Fire Management 3.11.3.3 Fuels Management (DTA)	Updated fuels management projects that were completed after publication of DEIS.
3-104	3.11 Fire Management 3.11.4.3 Fuels Management (FRA)	Updated fuels management projects that were completed after publication of DEIS.
3-115	3.12 Cultural Resources 3.12.4.5 Architectural Surveys	Text was changed to reflect a slight alteration to architectural survey/historic property data.
3-118, 3-119, 3-122, 3-123, 3-128, 3-131	3.13 Socioeconomics 3.13.1 Alaska 3.13.2 FWA 3.13.3 DTA 3.13.4 FRA	New housing information provided by USARAK; housing subsections for each installation added to text.

**CHAPTER 3 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
3-126, 3-129, 3-133	3.13 Socioeconomics 3.13.2.4 Regional Economic Activity (FWA) 3.13.3.4 Regional Economic Activity (DTA) 3.13.4.4 Regional Economic Activity (FRA)	Tables were added for each installation (Tables 3.13.h, l, and q) to clarify socioeconomic impacts of USARAK personnel on local economies.
3-138	3.13 Socioeconomics 3.13.6.4 Use of Military Lands (2nd to last paragraph)	Text was more relevant to Section 3.14, Public Access and Recreation and was moved to that section.
3-139	3.14 Public Access and Recreation 3.14.1.1 Access	Text was added since the section needed a description for 'ground access' as listed in Chapter 4 tables (4.14.a, b, c).
3-139 through 3-148	3.14 Public Access and Recreation	Text was changed to include mention of the new USARTRAK phone system; the document needed to reflect USARTRAK's existence, purpose, and availability.
3-142, 3-143	3.14 Public Access and Recreation	Text was added to provide further quantitative support (i.e., percent of harvest) to the assertion that USARAK lands are widely used as recreational hunting areas in interior Alaska.
3-149	3.15 Subsistence	Added textbox of federal and Alaska Federation of Natives definitions of subsistence.
3-149 through 3-157	3.15 Subsistence	Cross references to public access and recreation sections were included when impacts to subsistence would result form reduced access.
3-149 through 3-157	3.15 Subsistence	Included gathering of plants and berries as a subsistence activity.
3-153	3.15 Subsistence 3.15.4.2 Resource Availability (FRA)	Revised subsistence use description on and near FRA.
3-157	3.15 Subsistence Table 3.15.d	Revised Table 3.15.d to indicate that hunting may occur on FRA, but under general state hunting regulations.
3-159 through 3-161	3.16 Noise Tables 3.16.b and 3.16.c	A-level noises in Table 3.16.a were added to Table 3.16.b for small arms noise (L <sub>Amaxf</sub> ), and Table 3.16.c for artillery noise (DBP). Text was modified to account for these changes.
3-166	3.17 Human Health and Safety 3.17.1.1 Traffic	Altered (doubled) deployment miles to indicate total round-trip mileage between posts and training areas.
3-169	3.17 Human Health and Safety 3.17.1.10 Unexploded Ordnance	Inserted approximate dud munitions rate to provide better background and analysis of unexploded ordnance impacts.



**CHAPTER 3 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
3-181	3.18 Environmental Justice Table 3.18.c	Footnote was added to table to clarify that Eklutna includes Native village of Eklutna, as well as other non-Native communities. Statistics may not accurately reflect economic status of Native Village of Eklutna.
3-185	3.19 Infrastructure 3.19.1.1.6 Training and Range Facilities Table 3.19.b	Acreage of Black River Training Area was corrected from 4,756 to 4,213.
3-185, 3-186	3.19 Infrastructure 3.19.1.1.6 Training and Range Facilities Tables 3.19.c and 3.19.d	Black River Training Area and Gerstle River Training Area were added to Tables 3.19.c and 3.19.d for consistency.
3-189 through 3-193	3.19 Infrastructure 3.19.1.1.7 Airspace and Airfields 3.19.2.1.7 Airspace and Airfields (FWA) 3.19.3.1.7 Airspace and Airfields (DTA)	FWA and DTA airspace sections updated due to new information provided by USARAK.

## CHAPTER 4

Page in FEIS	Section	Changes Made
4-32	4.4 Soil Resource Table 4.4.b	Added MIMs capacity to table for comparison.
4-35 through 4-44	4.5 Surface Water	Changed parts of the text to include a more thorough textual description of analysis or impacts to match impacts listed in Tables 4.5.a,b,c; the primary alteration was a description of background sediment levels and sedimentation risks.
4-66	4.8 Vegetation 4.8.4.2.1 Alternative 1 (FWA)	Added text to include data on current MIMs levels and impacts in the analysis.
4-68	4.8 Vegetation 4.8.4.3.2 Alternative 3 (DTA)	Altered text to include more recent information regarding the proposed UAV maintenance facility (0.5 acres) and proposed area.
N/A	4.9 Wildlife and Fisheries 4.9.4.1 Wildlife	The methodology described in the sub-section “Impacts to Habitat of Priority Wildlife” was not used for the analyses in the EIS. Text referring to this methodology was deleted.
4-76	4.9 Wildlife and Fisheries 4.9.4.1 Wildlife Qualitative Impacts to Priority Species Populations	Text was added to differentiate between qualitative descriptions of significant and non-significant impacts.
4-77	4.9 Wildlife and Fisheries 4.9.4.2 Fort Wainwright 4.9.4.2.1 Alternative 1 (FWA) Wildlife	Added text: “Impacts to the varied thrush could be moderate, due to habitat loss from range construction or fires. Management of wildlife would continue as planned.”
4-79, 4-87	4.9 Wildlife and Fisheries 4.9.4.3 Donnelly Training Area Table 4.9.b	Based on discussion with Alaska Department of Fish and Game, impacts to varied thrush and wolverine from were downgraded from moderate to minor for all three alternatives (due to scattered distribution of these species.)
4-79, 4-90	4.9 Wildlife and Fisheries 4.9.4.3 Donnelly Training Area Table 4.9.b	Hammond’s flycatcher was not listed as a priority species in text or Table 4.9.b.
4-80	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (DTA) Wildlife	Modified description of UAV Maintenance Facility. Specifications of facility had changed from 2002 to 2003. The location was moved to Training Area 57, and the footprint was changed from 100 acres to 0.5 acres.
4-80	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (DTA) Wildlife	Added description of habitat in area surrounding proposed UAV Maintenance Facility.
4-80, 4-81	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (DTA) Wildlife	Text from Appendix F was added to Section 4.9 to provide background and rationale on potential impacts to large mammals, especially grizzly bear, moose, bison, and caribou.

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-80, 4-87, 4-88	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (DTA) Wildlife Table 4.9.b	Text and Table 4.9.b were modified to indicate moderate impacts to moose and wolf could occur.
4-81	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (DTA) Fisheries	Text was added to describe potential recreational impacts to stocked lakes at DTA due to personnel increases in interior Alaska.
4-82	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 4 (DTA) Wildlife	To ensure clarity and consistency between text and Table 4.9.b, the text was changed to indicate potential moderate impacts to moose, wolf, sharp-tailed grouse, great gray owl, Bohemian waxing, and Hammond’s flycatcher.
4-83	4.9 Wildlife and Fisheries 4.9.4.3.2 Alternative 3 (FRA)	Text was added to describe the importance of moose management at FRA in addition to reference of scientific research that described impacts to moose from military training.
4-87 through 4-90	4.9 Wildlife and Fisheries 4.9.5 Comparison of Alternatives Summary Table 4.9.b	Impacts to priority wildlife species, described in Table 4.9.b, were changed due to discussions with Alaska Department of Fish and Game.
4-94	4.9 Wildlife and Fisheries 4.9.6 Mitigation	Ongoing wildlife mitigation measures, specifically monitoring of select species and evaluation of noise impacts, were removed from the Proposed mitigation list (4.9.6.2) and added to the Existing mitigation sub-section (4.9.6.1).
4-97	4.10 Threatened or Endangered Species and Species of Concern 4.10.1 Background	Delisted species were discussed in Section 3.10 and have been added to Appendix E (Appendix Table 3.10.a). Removed text: “Two federally delisted species (American peregrine falcon and Arctic peregrine falcon) have been sighted within Fort Wainwright (FWA) and Donnelly Training Area (DTA) but these are infrequent visitors.”
4-97, 4-98	4.10 Threatened or Endangered Species and Species of Concern 4.10.2 Review of Impacts	Added a paragraph to clarify USARAK’s policies for management of endangered species.
4-99, 4-101, 4-102	4.10 Threatened or Endangered Species and Species of Concern 4.10.4.2 FWA 4.10.4.3 DTA 4.10.4.4 FRA	To clarify presence of threatened, endangered, or species of concern on USARAK lands, text was changed to read: “There are no known federally endangered or threatened species on [FWA, DTA, FRA] but there are a number of rare, uncommon, or priority species (USARAK 2002g).”

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-100 through 4-102	4.10 Threatened or Endangered Species and Species of Concern 4.10.4.2.3 Alternative 4 (FWA) 4.10.4.3.3 Alternative 4 (DTA) Table 4.10.a and 4.10.b	Due to repetition amongst tables, FWA and DTA tables were consolidated (into Table 4.10.a) and the following footnote added: <sup>1</sup> The American osprey is migrant and observed only rarely at DTA (Jeff Mason, personal communication 2003).
4-104	4.10 Threatened or Endangered Species and Species of Concern 4.10.5.1 Comparison of All Alternatives Table 4.10.c	Added footnotes to clarify “Minor-Moderate” impacts in summary table (Table 4.10.c): <sup>1</sup> Impacts would be moderate to the gray-cheeked thrush, Townsend’s warbler, and blackpoll warbler. <sup>2</sup> Impacts would be moderate to the Townsend’s warbler and blackpoll warbler.
4-112	4.11 Fire Management Table 4.11.a	Changed from % increase of rounds fired and range user days to actual amounts to be consistent with tables in other sections.
4-113	4.11 Fire Management 4.11.6.1 Existing Mitigation	Updated fuels management projects that were completed after publication of DEIS.
4-114	4.11 Fire Management 4.11.6.2 Proposed Mitigation	Changed “surround firing ranges with roads” to “review access to firing ranges.”
4-120	4.12 Cultural Resources 4.12.4.4 Fort Richardson	Added text to include analysis of the newly eligible unlisted historic district within FRA cantonment area, and the SHPO concurrence, with the findings.
4-120, 4-121	4.12 Cultural Resources 4.12.4.4.1 Alternative 1 (FRA) 4.12.4.4.2 Alternative 3 (FRA) 4.12.4.4.3 Alternative 4 (FRA)	Changed text to provide a more thorough description of expected activities and impacts under each alternative.
4-127, 4-132, 4-134	4.13 Socioeconomics 4.13.4.2.2 Alternative 3 (FWA) 4.13.4.3.2 Alternative 3 (DTA) 4.13.4.4.2 Alternative 3 (FRA)	Deployment analysis was updated to reflect more detailed deployment information provided by USARAK.
4-127 through 4-140	4.13 Socioeconomics 4.13.4.2.2 Alternative 3 (FWA) 4.13.4.4.2 Alternative 3 (FRA) 4.13.4.4.3 Alternative 4 (FRA)	All calculations based on stationing numbers were updated due to new stationing numbers provided by USARAK.
4-128, 4-129, 4-135, 4-139	4.13 Socioeconomics 4.13.4.2.2 Alternative 3 (FWA) 4.13.4.4.2 Alternative 3 (FRA) 4.13.4.4.3 Alternative 4 (FRA)	Housing analysis was updated due to additional information provided by USARAK.
4-130	4.13 Socioeconomics 4.13.4.2.2 Alternative 3 (FWA)	Moved detailed licensee information discussed under Recreational Activities to Appendix F.
4-132, 4-137	4.13 Socioeconomics 4.13.4.2.2 Alternative 3 (FWA) Table 4.13.a 4.13.4.4.2 Alternative 3 (FRA) Table 4.13.b	Tables 4.13.a and 4.13.b were updated and expanded to summarize more socioeconomic information.

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-157	4.15 Subsistence 4.15.4.2.1 Alternative 1 (FWA)	Added more information about existing restrictions for stream crossings during maneuver training.
4-157	4.15 Subsistence 4.15.4.2.1 Alternative 1 (FWA)	Included more information about current mitigation.
4-158	4.15 Subsistence 4.15.4.2.2 Alternative 3 (FWA)	Added: "This impact is expected to be minor because alternate areas on FWA would still be available to access subsistence resources including wildlife, fish, and plants."
4-158	4.15 Subsistence 4.15.4.2.2 Alternative 3 (FWA)	Added: "Noise may affect wildlife important for subsistence." And "...moose and waterfowl could be moderately affected by increased artillery training in Alpha Impact Area in Tanana Flats Training Area (TFTA). However, if firing was limited during spring calving and brooding seasons, the impacts would not affect subsistence."
4-159	4.15 Subsistence 4.15.4.3.1 Alternative 1 (DTA)	Added: "...vehicles use designated stream crossings to minimize sedimentation impacts."
4-159	4.15 Subsistence 4.15.4.3.1 Alternative 1 (DTA)	Added: "Additional soil and water monitoring would be planned under this alternative."
4-160	4.15 Subsistence 4.15.4.3.2 Alternative 3 (DTA)	Added: "This impact is expected to be minor because alternate areas on FWA would still be available to access subsistence resources including wildlife, fish, and plants."
4-160	4.15 Subsistence 4.15.4.3.2 Alternative 3 (DTA)	Further described impacts for subsistence hunting of moose.
4-162	4.15 Subsistence 4.15.4.4 Fort Richardson (FRA)	Added: "Hunting and fishing is, however, permitted on FRA under the Alaska Department of Fish and Game regulations, and it is recognized as an important area for the subsistence lifestyle of Native people. Therefore, impacts to subsistence from military activities and management on FRA were assessed even though federal subsistence limits and seasons do not exist."
4-162 through 4-164	4.15 Subsistence 4.15.4.4 Fort Richardson (FRA)	Modified impact levels to subsistence on FRA.
4-164	4.15 Subsistence Table 4.15.a	Table 4.15.a was revised to include impacts to subsistence on FRA.
4-165	4.15 Subsistence 4.15.6.1 Existing Mitigation	Added "continue soil and water monitoring" to existing mitigation in order to address concern with contamination of subsistence resources.

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-167	4.16 Noise 4.16.2 Review of Impacts of Noise	In the FEIS the Federal Interagency Committee on Urban Noise (FICUN) guidelines were used to describe Army noise standards instead of the American National Standards Institute (ANSI) standards.
4-167	4.16 Noise 4.16.2 Review of Impacts of Noise	Text was added to differentiate between noise impacts to humans and wildlife.
4-168, 4-170, 4-171	4.16 Noise 4.16.4.1.3 Vehicle Noise	Information on noise levels generated by the Stryker vehicle was moved from 4.16.3.3, Systems Acquisition to 4.16.4.1.3, Vehicle Noise.
4-168, 4-171, 4-172	4.16 Noise 4.16.4.1.4 Airfield Noise	Information on noise levels generated by the UAV was moved from Section 4.16.3.3, Systems Acquisition to 4.16.4.1.4, Airfield Noise.
4-169, 4-170	4.16. Noise 4.16.4.1.1 Artillery and Demolitions Noise	Additional information on weapons noise, related to artillery to be used by the SBCT, was added to the text.
4-172	4.16 Noise 4.16.4.1.5 Analysis of Noise Impacts on USARAK Lands	Text was added to differentiate between qualitative descriptions of significant and non-significant impacts.
4-172, 4-173	4.16 Noise 4.16.4.2.1 Alternative 1 (FWA) 4.16.4.2.2 Alternative 3 (FWA)	Added a statement qualifying conditions in which there could be increased potential for noise complaints at FWA.
4-172, 4-177	4.16 Noise 4.16.4.1.4 Airfield Noise	Moved Table 4.16.c from 4.16.5, Comparison of All Alternatives to 4.16.4.14, Airfield Noise; the table was more appropriate for the introductory section.
4-174, 4-175	4.16 Noise 4.16.4.3.1 Alternative 1 (DTA) 4.16.4.3.2 Alternative 3 (DTA)	Added text to qualify probability of noise complaints based on location of firing points at DTA.
4-175 through 4-177	4.16 Noise 4.16.4.4.2 Alternative 3 (FRA) 4.16.4.4.2 Alternative 4 (FRA)	Added text and modified tables to reflect increased munitions use at FRA during interim phase. Data used for the models generated in 2002 was updated in early 2003, but too late to be included in the DEIS.
4-180	4.16 Noise 4.16.6 Mitigation 4.16.6.1 Existing	Added text to indicate that USARAK notifies public of nighttime firing.
4-180	4.16 Noise 4.16.6 Mitigation 4.16.6.1 Proposed	The proposed mitigation section was modified to reflect USARAK's expected noise management policies under Alternatives 3 and 4. Removed two mitigation measures (nighttime firing restrictions and relocation of firing points).
N/A	4.16 Noise 4.16.4.2.3 Alternative 4 (FWA)	Removed text from Alternative 4 relating to institutional matters: "Implementation of institutional matters with Alternative 4 could improve noise management."

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-184	4.17 Human Health and Safety 4.17.4.2.2 Alternative 3 (FWA)	Changed the text and tables by doubling the deployment miles; this now indicates the total round-trip mileage between posts and training areas for each alternative.
4-184	4.17 Human Health and Safety 4.17.4.2.2 Alternative 3 (FWA)	Added additional information detailing current and expected convoy frequency and size for each route, which enables a more thorough analysis of convoy impacts.
4-184, 4-188	4.17 Human Health and Safety 4.17.4.2.2 Alternative 3 (FWA) 4.17.4.4.2 Alternative 3 (FRA)	Added brief text to section to indicate the capacity of the USARAK waste system to handle potential increases in waste stream quantity.
4-193	4.18 Environmental Justice 4.18.3 Activity Groups That Affect Environmental Justice	In textbox: systems acquisition, institutional matters, and deployment were moved to “activity groups without impacts category” to be consistent with text.
4-193 through 4-199	4.18 Environmental Justice	Traditional cultural properties were changed to properties of traditional, religious, or cultural significance.
4-199	4.18 Environmental Justice 4.18.6.1 Existing	Mitigation: “Ensure existence of full-time Native Tribal coordination...” was moved from proposed to existing.
4-203 through 4-215	4.19 Infrastructure 4.19.4 Comparison of Alternatives	All percentages and calculations were updated due to new munitions numbers provided by USARAK.
4-206, 4-210, 4-213	4.19 Infrastructure 4.19.4.2 Alternative 3 (FWA) 4.19.4.3 Alternative 3 (DTA) 4.19.4.4 Alternative 3 (FRA)	Added subsections regarding airspace and airfields due to new information provided by USARAK.
4-207, 4-208, 4-215	4.19 Infrastructure 4.19.5.1 Comparison of All Alternatives	Information was added and/or updated to due to new information provided by USARAK: Tables 4.19.a and 4.19.e – added Collective Range and Total Training Requirements Tables 4.19.b and 4.19.c – added totals for Munitions and Maneuver Space Requirements Tables 4.19.d and 4.19.f – added Total Munitions and MIMs Requirements
4-216	4.19 Infrastructure 4.19.5.1 Comparison of All Alternatives Table 4.19.g	Table 4.19.g was modified: Alternative 1 impacts were updated for all posts. Additional information on Airspace and Airfields impacts was added due to updated analysis in text.
4-221 through 4-223, 4-232	4.20 Cumulative Impacts 4.20.3.1.1 Military Activities (Interior Alaska) 4.20.3.2.1 Military Activities (South-Central Alaska)	Added text to provide additional information about past and current cumulative impacts on Army lands. Additional information was provided in resource-specific subsections 4.20.5.1 (Interior Alaska) and 4.20.5.2 (South-Central Alaska).

**CHAPTER 4 cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
4-223 through 4-226, 4-232 through 4-234	4.20 Cumulative Impacts 4.20.3.1.1 Military Activities (Interior Alaska) 4.20.3.2.1 Military Activities (South-Central Alaska)	Added text to provide detail about Mission Essential Projects on USARAK Lands.
4-225	4.20 Cumulative Impacts 4.20.3.1.1 Military Activities	Added text to discuss status of Battle Area Complex and Collective Training Range at DTA.
4-225	4.20 Cumulative Impacts 4.20.3.1.1 Military Activities (Interior Alaska)	Added text to describe Collective Training Range and Cold Regions Test Facility at DTA.
4-225, 4-233	4.20 Cumulative Impacts 4.20.3.1.1 Military Activities (Interior Alaska) 4.20.3.2.1 Military Activities (South-Central Alaska)	Added text to discuss proposed fence projects at FWA and FRA.
4-259, 4-279	4.20 Cumulative Impacts 4.20.5.2.12 Socioeconomics (Interior Alaska) 4.20.5.2.12 Socioeconomics (South-Central Alaska)	Added text to describe energy demands resulting from Proposed Action.



**CHAPTER 5 THROUGH APPENDICES A-I**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
5-4	Chapter 5, List of Preparers and Contributors	Added Amanda Shearer, USAGAK Native Liaison, to the list of contributors.
6-1 through 6-29	Chapter 6, Bibliography	New or missing references were added to the bibliography.
7-1 through 7-4	Chapter 7, Agencies and Individuals Contacted	Added new agencies and individuals that have been contacted since DEIS.
8-1 through 8-16	Chapter 8, Final EIS Distribution List	Replaced Draft EIS distribution list with Final EIS distribution list.
9-1 through 9-146	Chapter 9, Comments and Responses	New chapter includes comments from DEIS and USARAK responses.
A-2, A-4	Appendix A, List of Figures	Maps showing anadromous streams were modified to depict distribution of anadromous fish at FWA (Appendix A, Figure 3.3.a) and FRA (Appendix A, Figure 3.3.c).
A-11 through A-13	Appendix A, List of Figures	Environmental limitations overlays were added (Figures 3.7.a, 3.7.b, and 3.7.c).
A-18 through A-21	Appendix A, List of Figures	Ecosite figures were renamed Ecotype figures.
A-23 through A-29	Appendix A, List of Figures	Added or modified wildlife maps: Figure 3.9.b: modified to show distribution of moose based on recent survey data. Figure 3.9.c: waterfowl distribution moved from Figure 3.9.b of DEIS; map also shows recent nest site locations of trumpeter swans. Figure 3.9.d: map was modified to show recent distribution and movements of bison and Dall sheep. Figure 3.9.e: map was modified to show recent caribou distribution data. Figure 3.9.f: map was modified to show documented roosting areas, not point locations of roosting sites. Figure 3.9.g: added moose distribution map based on habitat maps from Alaska Department of Fish and Game. Figure 3.9.h: added waterfowl distribution map based on habitat maps from Alaska Department of Fish and Game.
A-36 through A-39	Appendix A, List of Figures	Added maps showing areas surveyed for cultural resources (Figures 3.12.a, 3.12.b, 3.12.c, and 3.12.d).
A-49, A-50	Appendix A, List of Figures	Added maps of contaminated sites at FWA and FRA (Figures 3.17.a and 3.17.b).
A-73 through A-76	Appendix A, List of Figures	Added maps showing all construction activities on USARAK lands (Figures 4.20.e, 4.20.f, 4.20.g, and 4.20.h).

**CHAPTER 5 THROUGH APPENDICES A-I cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
B-14	Appendix B, Scoping A. Public and Agency Scoping	Added more information about scoping process to Appendix Table 1.7.a.
C-3 through C-6	Appendix C, SBCT Stationing Description A. Stationing	Updated stationing numbers.
N/A	Appendix C, SBCT Stationing Description B. Training	Removed annual munitions requirements tables.
C-34, C-35	Appendix C, SBCT Stationing Description C. Systems Acquisition	Added more information about unmanned aerial vehicle (UAV).
D-3	Appendix D, Construction Project Description A. Alternatives 1 and 2	Updated projects in Appendix Table 2.2.ff.
D-5 and D-6	Appendix D, Construction Project Description A. Alternatives 1 and 2	Included installation boundary fences as mission essential projects.
D-7 through D-9	Appendix D, Construction Project Description A. Alternatives 1 and 2	Included information on where to find environmental documentation for mission essential projects.
D-17, D-18, D-21, D-27	Appendix D, Construction Project Description B. Alternatives 3 and 4 – Environmental Analysis of Proposed SBCT Construction Projects	Added more information about unmanned aerial vehicle (UAV).
D-24 through D-26	Appendix D, Construction Project Description B.6 Environmental Consequences of SBCT Projects	Added more information about Fort Richardson environmental consequences.
D-32	Appendix D, Construction Project Description B.8 Mitigation List	Updated mitigation list.
D-35 through D-41	Appendix A, List of Figures	Moved Figures 2.2.a-2.2.g to Appendix D and renamed them D-1 through D-7.
E-18	Appendix E 3.4 Soil Resources	Added Appendix Table 3.4.b to replace the incorrect, or incorrectly labeled, data regarding the unified soil classification system.
E-25 to E-27	Appendix E 3.6 Groundwater	Added new data regarding background groundwater data for Fort Wainwright, Donnelly Training Area, and Fort Richardson to Appendix Tables 3.6.a, 3.6.b, and 3.6.c.

**CHAPTER 5 THROUGH APPENDICES A-I cont.**

<b>Page in FEIS</b>	<b>Section</b>	<b>Changes Made</b>
E-30	Appendix E 3.7 Wetlands	Obtained a copy of the USARAK wetland permit, which serves as background information on existing regulations and mitigation; added relevant parts of the permit in Appendix E, Section 3.7, Tables 3.7.a and 3.7.b.
E-75	Appendix E 3.9 Wildlife and Fisheries	Added available data to text as Appendix Table 3.9.d, which clarifies the black bear harvest on TFTA and YTA.
E-81	Appendix E 3.10 Threatened or Endangered Species, and Species of Concern	Delisted species in Alaska were moved from Chapter 3.13 into Appendix Table 3.10.a. Appendix Table 3.10.b was moved from Chapter 3 to Appendix E.
E-108	Appendix E 3.12 Cultural Resources	Due to new unlisted eligible historic district on Fort Richardson, we felt the need to include the inventory of buildings comprising the district as Appendix Table 3.12.m.
E-111	Appendix E 3.13 Socioeconomics	Added Appendix Table 3.13.a to clarify information regarding Native Village Corporations and the Alaska Native Claims Settlement Act.
N/A	Appendix E 3.14 Public Access and Recreation	Appendix Figure 3.14.a was removed. Due to limited returns and a specifically targeted audience, the data was considered less useful in identifying Fort Wainwright recreational trends.
E-115	Appendix E 3.16 Noise	In response to the range of public comments regarding potential noise generation on post, more background information on noise generation from small arms ranges was included in Appendix Section 3.16.
F-7	Appendix F 4.4 Soil Resources	Added text to provide a more thorough description of how the land impact/MIMs (carrying) capacity was derived; the ATTACC model was available, but too lengthy for inclusion in Chapter 4.
F-15 through F-18	Appendix F 4.9 Wildlife and Fisheries	Added text to provide additional information regarding the effect of weapons testing on bald eagles; also, due to comments received, the decision was made to include dates of meetings with ADF&G.
F-48 through F-55	Appendix F 4.20 Cumulative Impacts	Added text and tables in Appendix Section 4.20 to indicate threshold analysis for cumulative impacts to each relevant resource category.
G-3	Appendix G Federal Statutes	Added Alaska National Interest Lands Conservation Act to list of relevant federal regulations.

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