



# Environmental Impact Statement for Remediation of Area IV and the Northern Buffer Zone

S a n t a   S u s a n a   F i e l d   L a b o r a t o r y

## Draft SSFL Area IV EIS Annotated Table of Contents

### Volume 1 - Chapters 1 through 14

**Chapter 1, Introduction** – describes the Department of Energy's (DOE's) purpose and need for action, background and history of the Santa Susana Field Laboratory (SSFL) Area IV, DOE decisions to be supported by the Environmental Impact Statement (EIS) analysis, related National Environmental Policy Act (NEPA) documents, and public involvement through the NEPA process.

**Chapter 2, Alternatives** – describes alternatives for remediation of Area IV and the Northern Buffer Zone (NBZ). Alternatives are presented for each of the three components that comprise the project: soil remediation, building demolition, and groundwater remediation. Alternatives that were considered but dismissed from detailed study are discussed. This chapter also presents a summary of the potential environmental impacts by alternative, and potential cumulative impacts of remediation activities at SSFL (by DOE, the National Aeronautics and Space Administration, and The Boeing Company), as well as other activities in the vicinity of SSFL.

**Chapter 3, Affected Environment** – describes the potentially affected environment at Area IV and the NBZ, including land resources, geology and soils, surface water and groundwater resources, biological resources, air quality and climate, noise, transportation and traffic, human health, waste management, and cultural resources, as well as socioeconomics, environmental justice, and sensitive-aged populations. These data are provided as the baseline against which the potential impacts of each of the alternatives can be compared.

**Chapter 4, Environmental Consequences** – describes the potential impacts of each of the alternatives and presents the scientific and analytical basis for the comparison of environmental consequences of the alternatives evaluated in the Draft EIS. Environmental consequences are evaluated for each alternative for the same resource areas described in Chapter 3.

**Chapter 5, Cumulative Impacts** – describes the cumulative impacts of the action alternatives in combination with other past, present, and reasonably foreseeable future actions. The chapter presents information regarding the impacts of DOE, National Aeronautics and Space Administration (NASA), and The Boeing Company (Boeing) activities, as well as the impacts from other relevant activities in the region.

**Chapter 6, Measures to Minimize Impacts and Mitigation Measures** – presents measures that DOE has incorporated into the alternatives that would avoid, minimize, reduce, or eliminate potential adverse impacts. It also identifies additional measures that DOE will consider and evaluate during project implementation that could further avoid, minimize, reduce, or eliminate potential adverse impacts.

**Chapter 7, Resource Commitments** – addresses green and sustainable remediation, potential unavoidable adverse impacts on the environment, irreversible and irretrievable commitments of resources, and short-term impacts versus long-term productivity of Area IV and the NBZ from implementing the action alternatives.

**Chapter 8, Laws, Regulations, and Other Requirements** – describes the environmental, safety, and health laws, regulations, orders, and permits that apply or may potentially apply to the implementation of the alternatives evaluated in the Draft EIS.

**Chapter 9, Native American Histories and Perspectives** – describes the significance of SSFL to the native peoples who inhabited the site before it began operations as a field laboratory.

**Chapter 10, References** – lists the books, reports, technical documentation, data, personal communications, and other sources of information used in developing the Draft EIS.

**Chapter 11, Glossary** – defines scientific, technical, and other terms used in the Draft EIS that might be unfamiliar to some readers.

**Chapter 12, Index** – provides an alphabetical list of key terms and concepts used in the Draft EIS, with an account of each time a term or concept appears, by chapter and page number.

**Chapter 13, List of Preparers** – lists the individuals who contributed to the preparation of the Draft EIS, including educational background, areas of expertise, years of experience, and areas of responsibility for the Draft EIS.

**Chapter 14, Distribution List** – provides a list of those who received distribution copies of the Draft EIS and/or Summary, or who were notified that the Draft EIS was available for downloading from the internet, including members of Congress; Federal, state, and local elected and appointed government officials and agencies; Native American representatives; organizations; and individuals.



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## Draft SSFL Area IV EIS Annotated Table of Contents (cont.)

### Volume 2 - Appendices A through K

**Appendix A, Federal Register Notices** – reproduces copies of Federal Register notices related to the Draft EIS, including the Advance Notice of Intent (October 17, 2007), Notice of Intent (May 16, 2008), and Amended Notice of Intent (February 7, 2014).

**Appendix B, Environmental Consequences Methodologies** – presents descriptions of the methodologies used to assess the environmental consequences of the alternatives proposed in the Draft EIS. Resource areas that required more detailed descriptions and supporting information are presented briefly in this appendix and more detailed analytical methodologies for these resource areas are presented in separate appendices.

**Appendix C, Alternatives Development for the Environmental Impact Statement for Remediation of Area IV and the Northern Buffer Zone of the Santa Susana Field Laboratory** – provides a description of the processes used to screen and identify the alternatives analyzed in the Draft EIS. It includes a discussion of the community alternatives development workshops held in 2012 and the criteria used to evaluate concepts proposed, and the development of the criteria used in the EIS alternative screening process.

**Appendix D, Detailed Project Information** – provides detailed information on selected topics referenced in other sections of the Draft EIS, including structures in Area IV; chemical and radiological Look-up Tables (LUTs); comparison to cleanup levels of other projects in California; identification and selection of disposal facilities for analysis; and descriptions of other projects in proximity to the SSFL considered in the development of cumulative impacts analysis. The appendix also includes information regarding assumptions used in the development of the alternatives and impacts analysis.

**Appendix E, Consultations** – lists consultation efforts undertaken by DOE with the appropriate agencies, tribes, and members of the public, spanning the period from before the publication of the Notice of Intent in 2008 to the present. Such consultations were performed in accordance with the intent and spirit of NEPA and with applicable Federal and state laws (including the Endangered Species Act and the National Historic Preservation Act) and Executive Orders 13007 and 13175.

**Appendix F, Cultural Resources** – provides a cultural history of, and historical setting for, the Simi Valley and the area that eventually became SSFL, discussing various eras ranging from human prehistory (10,000 to 13,000 years ago) through the 20th Century. This appendix also reports the results of a cultural resources records search conducted for the region within 1 mile of SSFL.

**Appendix G, Human Health** – presents assessment methodology and estimates of human health effects from exposure to chemicals and radionuclides in SSFL Area IV and NBZ. The assessment was conducted to generate reasonably conservative results that are unlikely to be exceeded. The primary components of the impact assessment were: site characterization, exposure assessment, toxicity evaluation, and estimation of health effects.

**Appendix H, Evaluation of Transportation and Traffic Impacts** – provides an overview of the approach used to assess human health risks that could result from transportation of radioactive waste, hazardous waste, nonhazardous waste, and nonradioactive materials on public roadways and presents the results of the assessment. This appendix also describes and presents the impacts from traffic associated with the cleanup alternatives.

**Appendix I, Wetlands Assessment** – presents the results of wetland surveys and an assessment of wetland resources to evaluate potential effects on wetland resources associated with cleanup alternatives for SSFL Area IV and the NBZ.

**Appendix J, Cost-Benefit Analysis Report** – presents a cost-benefit analysis of the soil remediation alternatives evaluated in the Draft EIS. The analysis quantifies the benefits of reduced risk to human health (in terms of cancer risks and non-cancer hazards) resulting from implementation of each soil remediation alternative. It includes estimates of capital construction costs, surveillance and long-term maintenance costs, and total lifecycle costs by alternative for comparison to the risk reduction benefits.

**Appendix K, Contractor Disclosure Statements** – includes NEPA disclosure statements pursuant to Council on Environmental Quality Regulations 40 CFR 1506.5(c), as adopted by DOE (10 CFR 1021) indicating that contractors who prepared the EIS have “no financial or other interest in the outcome of the project.”