Jacobs

Challenging today.
Reinventing tomorrow.

Jacobs Excels at Right-Sized and High-Quality NEPA

We use our integrated NEPA process to achieve success

The fundamental principles of the National Environmental Policy Act (NEPA) are inspirational—ensure informed decision making and disclose potential environmental impacts to the affected public. However, compliance is often viewed as a burdensome and time-consuming process, though this does not have to be the case. As part of our proven NEPA process, Jacobs works with clients to tailor the NEPA process based on their needs and objectives, while **delivering legally and technically defensible documents.**

We use an **integrated process** that focuses on critical elements to achieve project success. As part of the NEPA process, we work with clients to establish appropriate schedules, identify internal and external stakeholders, and resolve issues that could most affect the NEPA process.

We have completed thousands of NEPA documents throughout the country for a myriad of clients. In all these cases, the NEPA process is **customized to the client's needs** while adhering to the requirements of agency regulations.

Our NEPA experience extends across many federal agencies and ranges from simple Environmental Assessments (EAs) to complex and controversial Environmental Impact Statements (EISs).

#1 Identify Internal and External Stakeholders

#2 Manage Schedule and Project Milestones

#3 Use Trained and Diverse Experts

#4 Understand the Level of Public Interest

#5 Perform Focused Analyses

#6 Utilize Modern Technology

Jacobs' integrated process addresses all components of successful delivery for NEPA projects.

When appropriate, we work to keep the NEPA process **simple and focused.** In these cases, we work to meet critical milestones, streamline the document, and focus only on topics of greatest concern, without compromising defensibility of the NEPA document or the implementation of the proposed action.

However, **we can also support the most complex NEPA actions.** In these cases, the proposed action may be highly complicated, involve numerous stakeholders with separate agendas, and have the potential for significant environmental impacts. In these more challenging situations, we work with the client to navigate the complexities and build a right-sized approach. This often includes pulling from our diverse and technically skilled staff of engineers, scientists, historians, and economists located throughout the nation. We also have access to the latest **cutting-edge technology** to help with modeling, graphic design, and creating virtual public engagement platforms.

We bring proven NEPA expertise, local knowledge, project management, technical tools, and full-service support to help clients achieve **cost-effective, high-quality, and on-schedule NEPA compliance.**

Jacobs

Federal and Environmental Solutions
Environmental Planning & Permitting

U.S. Army

Dense Urban Terrain Complex

In support of the Fort Irwin National Training Center at Fort Irwin, California, Jacobs prepared a Supplemental EA and conducted extensive environmental analysis. **We prepared a streamlined Supplemental EA document and ensured an expedited timeline was met.** As a result, we successfully completed a legally sound Supplemental EA in less than a year from the notice to proceed to the signed Finding of No Significant Impact.

Along with the Supplemental EA, Jacobs worked around military training schedules and conducted extensive cultural and biological resource surveys, covering 1,400 acres, without impacting the project schedule while fulfilling both Section 106 consultation efforts and Section 7 consultation efforts. **Our staff took appropriate safety measures to facilitate environmental protection, while not interfering with critical mission training efforts.**

U.S. Air Force

Headquarters Pacific Air Forces (PACAF) Overseas Support

Jacobs prepared an environmental review (ER) to analyze impacts associated with the U.S. Air Force's (USAF) increased use of Royal Australian Air Force bases Darwin and Tyndall. The document was prepared under the provisions of Executive Order 12114, Environmental Effects Abroad of Major Federal Actions, and U.S. Department of Defense (DoD) 6050.7, Environmental Effects Abroad of Major DoD Action, which furthers NEPA's purpose with respect to the environment outside of the U.S.

This project required an understanding of Australian environment sensitivities and identification of appropriate significance thresholds. Ultimately, **both U.S. and environmental standards were addressed to provide a technically and legally sound document more than 3 months ahead of schedule.** All environmental issues involved with the proposed action were identified and addressed, allowing the USAF to take early action on necessary measures to minimize impacts.

Department of Energy

California H2 Hub

The Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES or California Hydrogen [H2] Hub) was selected by the DOE to receive federal funding as part of the Regional Clean Hydrogen Hub program. The California H2 Hub consists of 35 demonstration projects and proposes to use renewable energy to produce hydrogen through electrolysis and from biogenic sources with end uses ranging from buses, heavy duty trucks, cargo handling equipment, a marine vessel, stationary fuel cells, and ammonia synthesis.

Jacobs is the third-party contractor assisting the DOE Office of Clean Energy Demonstrations through the National Environmental Policy Act process; providing scoping and public engagement services including a project virtual meeting space; analyzing natural, cultural, and social impacts; and developing an EIS for the hydrogen technologies. **Jacobs is working with DOE and ARCHES to meet an expedited 18-month schedule goal for completion of the EIS.**

National Geospatial Agency, U.S. Army Corps of Engineers, and U.S. Air Force

Next NGA West Campus

Jacobs completed a 17-month, expedited EIS for the National Geospatial Agency (NGA). NGA's Western Headquarters facilities, located southwest of downtown St. Louis, Missouri, in the historic St. Louis Arsenal, was outdated and in need of modernization. With funding earmarked by the U.S. Congress and construction planned to begin within 2 years, completion of the EIS within an expedited timeframe was imperative. The accelerated schedule was a challenge, given the controversial nature of this proposed project and the participation of multiple stakeholders.

The EIS considered four potential locations: three sites in Missouri and one at Scott Air Force Base in Illinois. Given the $1.6 billion scope and potential relocation of up to 1,345 highly skilled government employees, the project was high profile and politically charged.

The American Planning Association (APA) Federal Planning Division recognized the NGA EIS with the Citation Award for the Outstanding Environmental Planning Project.

We assisted the U.S. Army Corps of Engineers (USACE) in responding to public comments that criticized the controversial selection of the Agency preferred alternative (St. Louis City Site). To maintain the aggressive schedule, we synthesized the complex feedback into a revised document within weeks.

We also collaborated with the USACE, NGA, and USAF to navigate many issues that threatened to stall the project, formulating approaches as necessary to resolve issues quickly. These issues included environmental justice, community cohesion, threatened and endangered species, hazardous material remediation, transportation, and cultural resources.

We used state of the art models, effective management techniques, sophisticated public engagement protocols, and close agency coordination to effectively address every aspect of the project.

National Aeronautics and Space Administration

Santa Susana Field Laboratory

Jacobs has supported the NEPA effort at National Aeronautics and Space Administration's (NASA) Santa Susana Field Lab in Simi Valley, California, for nearly 10 years, including an EIS in 2014 and a supplemental EIS in 2020. The EIS process was complicated, involving many locations within the site; variable combinations of contaminants, cleanup options, and impacts; and diverse stakeholders, including local activists, celebrities, and local, state, and federally elected officials.

We prepared all documents and studies required under NEPA, including biological surveys, noise studies, traffic assessments, and a wetland delineation. We also completed a formal Endangered Species Act (ESA) Section 7 consultation (including a biological assessment), a formal National Historic Preservation Act (NHPA) Section 106 consultation, and a comprehensive cumulative impacts analysis. We aided in the public involvement process and managed responses to the more than 4,000 individual public comments received on the draft EIS. **Our team delivered all the required documentation without missing a deadline or exceeding the budget.**

Radioisotope Heater Units EA

The Jacobs team worked in partnership with NASA's Division of Science Mission Directorate, the U.S. Department of Energy, the USAF, and the Federal Aviation Administration to create a programmatic environmental assessment for the use of radioisotope heater units (RHUs) in spacecraft. The NEPA programmatic approach resulted in potential savings of approximately $20 million per nuclear-enabled launch. **Our senior technologists across diverse disciplines collaborated to help NASA navigate the complex intertwining of nuclear safety without compromising NEPA compliance.** This resulted in a document that was concise and focused on real concerns.

The EA team were the recipients of the NASA Blue Marble Award. This award recognizes excellence demonstrated in environmental and energy management in support of NASA's mission

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National Science Foundation

Division of Astronomical Science Telescopes EISs

Jacobs completed three separate EISs for the potential transfer or demolition of National Science Foundation (NSF)-funded telescopes in geographically diverse regions, including the Arecibo Telescope in Arecibo, Puerto Rico, the Greenbank Telescope in West Virginia, and the Sacramento Telescope located in New Mexico. All three telescopes are world renowned for ground-breaking discoveries in astronomical science, and public interest in the fate of each observatory was high. While each observatory has its own unique features and challenges, consistent themes in public interest included potential socioeconomic and environmental justice impacts. We prepared and managed multiple public meetings in English at each location, and additionally in Spanish in Puerto Rico. The meetings were attended by local media, international research scientists, and local residents, who spoke passionately about the potential loss of research and educational opportunities. During the public scoping and draft EIS review periods, we organized thousands of public and agency comments by categorizing the comments and preparing responses by theme, providing NSF efficiencies.

Additionally, each of the observatories required ESA Section 7 consultation with the U.S. Fish and Wildlife Service and NHPA Section 106 consultation development of Programmatic Agreements with the respective state historic preservation offices and the Advisory on Historic Preservation. Despite these unique challenges, **we effectively supported all three EISs using an interdisciplinary team and successfully delivered all three EISs in a 2-year period.**

Pu'u Maka'ala Natural Area Reserve

Jacobs prepared an EA to assess the potential environmental effects of establishing a National Ecological Observatory Network field study site withing Pu'u Maka'ala Natural Area Reserve.

Jacobs had to account for the reserve's sensitive nature and wilderness areas as well as a planned release of the 'Alalā, an extinct in the wild native bird. **Jacobs helped NSF navigate a highly complex stakeholder environment, including Hawaiian regulators (OCCL, OEQC, DOFAW, SHPD), community organizations (Three Mountain Alliance, the ‘Alalā working group), and the US Fish and Wildlife Service.**

Southern California Edison

Renewable Transmission Lines

The Southern California Edison Tehachapi Renewable Transmission Project (TRTP) is a multi-billion-dollar electrical transmission line, consisting of a series of new and upgraded, high-voltage electric transmission lines and substations, to deliver 43,00 megawatts of electricity from new and planned wind farms on the Tehachapi Wind Resources Area to the Los Angeles Basin and San Bernardino County.

Jacobs supported Southern California Edison with **siting, environmental and regulatory review, implementation, and technical evaluation and strategy support to comply with the California Environmental Quality Act and NEPA.** During construction, we provided management tools, processes, and plans; mitigation monitoring and reporting; agency coordination support, mitigation measure review, clarification, and plan preparation; photographic documentation; geographic information system support; change management; and management of subcontractor team members. Jacobs recently supported the construction of a new fire lookout to mitigate visual resources.

NOTE: Jacobs acquired CH2M HILL, Inc. in December 2017. Projects are representative of the combined resources and expertise of both firms but may have been completed by either entity prior to the acquisition.

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