

Final Environmental Impact Statement

Horse Heaven Wind Farm

Chapter 7 - List of Preparers

October 2023

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7.0 CHAPTER 7 – LIST OF PREPARERS

This chapter lists the individuals who contributed to the preparation of this Environmental Impact Statement (EIS). It also includes each individual's organization affiliation and a brief description of their professional background.

7.1 Washington State Energy Facility Site Evaluation Council

Betts, Patricia – Washington State Environmental Policy Act (SEPA) Specialist

Role: Environmental Impact Statement Guidance and Review

Education: BS, Zoology

Expertise: 30 years of experience in SEPA implementation for three Washington State agencies: Department of Ecology (Ecology), Department of Natural Resources, and the Energy Facility Site Evaluation Council (EFSEC). Ms. Betts' SEPA duties included managing state agency SEPA EISs; participating in the development of, reviewing, and commenting on other SEPA and National Environmental Policy Act (NEPA) EISs; interpreting SEPA rules and advising agencies, the public, and applicants; and preparing SEPA guidance, conducting training, and developing SEPA policy.

Greene, Sean – Environmental Planner

Role: Environmental Impact Statement Guidance and Review

Education: MS, Environmental Studies; BA, History; BA, Political Science

Expertise: Over 10 years of experience in the environmental field, including time spent performing environmental and listed species assessments, technical assistance, environmental planning, permitting, and regulatory compliance. Experience coordinating complex interagency project reviews in a variety of regulatory frameworks, including NEPA and Clean Water Act assessments of large transportation and energy facility projects.

Hafkemeyer, Amí – Director of Siting and Compliance

Role: Contract Manager & Environmental Impact Statement Review

Education: BS, Ecology and Evolutionary Biology

Expertise: Over 14 years of experience working in environmental compliance, having worked as an environmental quality program manager for industry prior to joining the EFSEC staff. She has experience overseeing Clean Water Act and Oil and Petroleum Act compliance programs. In her role with EFSEC, she oversees technical staff in their implementation of SEPA reviews and permit application reviews to process applications for site certification.

Moon, Amy – Energy Facility Site Specialist Lead

Role: Project Manager & Environmental Impact Statement Review

Education: MS, Biology; BS, Environmental Science.

Expertise: Over 17 years as an environmental consultant lead biologist. Duties included environmental surveys, regulatory compliance, permitting, and Program Manager for the wetland and stormwater program. Ms. Moon routinely conducted NEPA analysis and EIS preparation, wetland delineation/permitting/restoration, biological stream surveys, vegetation surveys, sediment and erosion control design and oversight, and Environmental Site Assessments (Phase I & II). Ms. Moon served for six years as the Washington State Department of Ecology's Construction Stormwater General Permit (CSWGP) Writer and as the state lead for the Certified Erosion and Sediment Control Lead (CESCL) program. As an Energy Facility

Site Specialist, Ms. Moon is responsible for regulatory compliance for Washington's nuclear power plant, the Columbia Generating Station as well as SEPA environmental reviews and permit application reviews to process site certification applications.

7.2 State Agencies

Environmental Justice Council

Rowena Pineda, Environmental Justice Advisor – Technical Reviewer

Office of the Attorney General

Jonathon Thompson, Assistant Attorney General – Technical Reviewer

Washington Department of Fish and Wildlife (WDFW)

Jason Fidorra, Fish & Wildlife Biologist – Technical Reviewer

Michael Ritter, Wind Mitigation Biologist – Technical Reviewer

Washington State Department of Agriculture (WSDA)

Kelly McLain, Policy Advisor to the Director – Technical Reviewer

Washington State Department of Archaeology and Historic Preservation (DAHP)

Allyson Brooks, State Historic Preservation Officer / Director – Technical Reviewer

Sydney Hanson, Local Government Archaeologist – Technical Reviewer

Dennis Wardlaw, Transportation Archaeologist – Technical Reviewer

David Witt, Assistant State Archaeologist – Technical Reviewer

Lance Wollwage, State Archaeologist – Technical Reviewer

Washington State Department of Ecology (Ecology)

Courtney Cecale, Environmental Justice Senior Policy Advisor – Technical Reviewer

Karl Rains, Regional Planner – Technical Reviewer

Lloyd Stevens Jr., Water Quality Program – Technical Reviewer

Lori White, Shorelands and Environmental Assistance Program – Technical Reviewer

Lynnette Haller, Air Quality Program – Technical Reviewer

Millie Piazza, Program Manager Office of Equity & Environmental Justice – Technical Guidance

Washington State Department of Natural Resources (DNR)

Chad Unland, Natural Resource Specialist – Technical Reviewer

Nate Morse, Natural Resource Scientist – Technical Reviewer

Sara Palmer, State Lands Archaeologist – Technical Reviewer

Walter Fertig, Botanist – Technical Reviewer

Washington State Department of Transportation (WSDOT)

Jacob Prilucik, Development Services – Technical Reviewer

Paul Gonseth, Development Services – Technical Reviewer

Washington Utilities and Transportation Commission (UTC)

Betty Young, Rail Safety Program – Technical Reviewer

Vicki Elliott, Transportation Specialist – Technical Reviewer

7.3 Tribes or Tribal Groups

Tribal staff named below provided technical support to EFSEC for the EIS. The input provided does not constitute government-to-government consultation, nor does it indicate the Tribe's position on the proposal.

Confederated Tribes Of The Yakama Nation

Jessica Lally, Archaeologist – Technical Reviewer
 Kyrsten Wolterstorff, Rangeland Biologist – Technical Reviewer
 Mark Neutzman, Wildlife Biologist – Technical Reviewer

7.4 WSP

EFSEC was supported by WSP in preparing the EIS. WSP's team included project management, a range of resource specialists, technical writers, and geographic information system (GIS) analysts.

Akkinepally, Vamshi – Transportation Engineer

Role: Transportation Contributing Reviewer
 Education: MENG, Civil and Environmental Engineer
 Expertise: 20 years' experience in transportation systems analysis, transportation planning, travel demand modeling, traffic engineering, traffic operations, and safety.

Auten, Marc – Lead Consultant, Environmental Planning

Role: Senior Technical Review for SEPA Compliance
 Public Health and Safety Contributing Author
 Education: BS, Environmental Science (Freshwater Ecology)
 Expertise: 19 years of experience in environmental regulatory consulting and project development. Expertise in federal, state, and local permitting, including National Environmental Policy Act (NEPA) and Washington State Environmental Policy Act (SEPA).

Cadillo, Jimena – Environmental Consultant

Role: EIS Technical Lead
 Education: MS, Environmental Engineering; BS, Industrial Engineering
 Expertise: Over 10 years' experience in management and administration of environmental projects and proposals related to the infrastructure, energy, and mining sectors. Supported US Government Sector activities like business development initiatives, strategic client development and financial planning. Also experienced in Project Controls functions such as cost controls, scheduling, forecasting, and progress and performance analysis.

Cook, Amy – Editor

Role: Technical Editor
 Education: Ph.D., English Literature, BA, Linguistics
 Expertise: 20-year background in technical and academic writing and editing spans academic book manuscripts, scientific journal articles, and a wide variety of research reports and plans in the environmental sciences. She has experience developing reports associated with environmental permitting for a variety of energy projects, as well as hazardous waste site investigations, remedial action planning documents, and emergency management and response operations for both private-sector and government clients.

Gamble, Don – Environmental Lead Consultant

Role: Water Resources, Vegetation, and Wildlife and Habitat Technical Reviewer
Education: Master of Natural Resource Management; BSc, Physical and Resources Geography
Expertise: Over 30 years of project management experience, with a specialization in environmental impact assessments (EIAs), regulatory review processes, environmental permit applications, and mitigation and environmental management plans for hydroelectric, oil and gas, mining, transportation, and municipal infrastructure projects.

Harmening, Sierra – Assistant Vice President, Environmental Planner

Role: SEPA Compliance and Consistency Reviewer
Recreational Technical Author
Transportation Technical Author
Earth Resources Contributing Author
Education: MS, Environmental Law and Policy; BS, Management in Technology
Expertise: Over 15 years of lands permitting, environmental consulting, and mine site management experience. Her experience includes the management and preparation of documents for permit renewals, closure planning, closure cost estimation, National Environmental Policy Act (NEPA) analysis, and compliance monitoring plans.

Hill, Sophie – Engineering Geologist

Role: Earth Resources Contributing Author
Education: Ph.D., Engineering Geology (Rock Mechanics); MESci, Geology
Expertise: Three years' experience with a background in rock mechanics, with an emphasis in experimental rock deformation.

Hindley, Gabrielle – Biologist

Role: Vegetation and Water Resources Technical Author
Education: MSc Ecological Restoration; BS, Biology
Expertise: Five years of project experience in planning and executing field programs, Terrestrial Ecosystem Mapping, research, ecological restoration, and vegetation monitoring. She also has experience conducting wildlife surveys, environmental monitoring, and designing mitigation.

Hull, Alan – Senior Vice President

Role: Earth Resources Technical Reviewer
Education: Ph.D., Geological Sciences; MSc, Geology; BSc, Geology
Expertise: Over 40 years of project experience focusing on earthquake hazard assessment and incorporating seismically active faults into engineering analysis and design.

Kristen, Mary – GIS Analyst

Role: GIS Analyst
Education: MA, Geomatics for Environmental Management; BA, Geography
Expertise: Four years of experience in GIS analysis.

Miller, Gage – Senior Environmental Scientist

Role: Noise and Vibration Technical Author
Education: BS, Environmental Science
Expertise: 23 years of noise-related experience, including noise modeling, sound propagation calculations, sound level field measurement, assessments, impact analysis, mitigation analysis, and providing expert testimony. He has experience in performing noise impact assessments in support of permitting activities at the state level and EIAs in support of large domestic and international projects.

Moss, Kate – Principal Biologist

Role: Wildlife and Habitat Technical Author
Education: BSs, Biology
Expertise: 17 years of experience designing, managing, and conducting bio-inventories, biodiversity studies, invasive species studies, wildlife salvages, Species at Risk surveys, impact assessments, and habitat compensation/ mitigation design. She has been involved in conducting baseline surveys for amphibians, birds, terrestrial gastropods and mammals, annual population monitoring, and relative abundance analysis.

Muschal, Marlis – Archaeologist

Role: Historic and Cultural Resources Technical Author
Education: MA, Anthropology; BA, Anthropology and History
Expertise: A Registered Professional Archaeologist with 13 years' experience conducting fieldwork and/or Section 106 of the National Historic Preservation Act compliance across the United States. She has contributed to the National Register of Historic Places (NRHP) evaluation of a variety of precontact and historic archaeological sites. In the field, she has led field crews and is experienced in archaeological survey, excavation, and monitoring. She also previously worked for the Confederated Tribes of the Colville Reservation, History/Archaeology Program, as a senior archaeological technician.

Nazar Nia, Naghmeh – Environmental Planner

Role: Socioeconomics Contributing Author
Education: MSc, Geography, Urban, and Environmental Studies; BA, Architecture
Expertise: 9 years of experience in designing and implementing urban and environmental planning and assessment projects. Skilled in social, land use and quality research, data collection, impact analysis and management planning for large and small projects in mining, oil and gas, power, and sustainable energy projects. She has supported the preparation of land use, marine use, visual quality and stakeholder engagement, and indigenous rights and interest chapters of Environmental Assessment Applications.

Paris, Jeremy – Assistant Vice President, Environmental Planner

Role: Project Manager
SEPA Compliance and Consistency Reviewer
Energy and Natural Resources Technical Author
Land and Shoreline Use Technical Author
Public Services and Utilities Technical Author
Socioeconomic Technical Author

Education: MS, Biological Sciences; BS, Biological Sciences

Expertise: 18 years of professional consulting experience leading projects in support of the energy, maritime, transportation, and government sectors. He has prepared high-level NEPA documents, Endangered Species Act Biological Assessments, International Finance Corporation Performance Standards Compliant Environment and Social Impact Assessments, California Environmental Quality Act compliant documents, and Master Plans for water quality improvement programs.

Stein, David – Vice President, Environmental Planning and Permitting

Role: Air Quality Technical Author

Education: MS, Environmental Engineering; BS, Environmental Engineering; BS, Biological Sciences

Expertise: Over 40 years of environmental management and permitting experience working with major gas and electric utilities, independent power plant developers (both renewable and fossil), major oil and petrochemical conglomerates, refiners, chemical plants, mining facilities, and various other industries. An air quality specialist with experience with air quality districts providing regulatory and rulemaking strategy and advocacy, technical support, permit procurement and compliance support, and expert witness testimony.

Stevens, Kathryn – Project Coordinator

Role: Deputy Project Manager

Education: BA, Communications

Expertise: Over 20 years of administrative and environmental experience on large-scale projects, reports, quality control, comment responses and tracking, outreach coordination, administrative records, and research.

Umlauf, Kate – Architectural Historian

Role: Historic and Cultural Resources Contributing Author

Education: MA, Heritage Management; BA, Anthropology

Expertise: 6 years' experience conducting architectural surveys, integrity research, National Register of Historic Places (NRHP) evaluations and nominations, and historical research and context development in fulfillment of Section 106 and 110 of the National Historic Preservation Act (NHPA) of 1966 and the National Environmental Policy Act (NEPA) of 1970. Also experienced in transportation research, historic property documentation and historic structure reports, and historic cemetery restoration.

7.5 SWCA Environmental Consultants

Johnson, Craig – Senior Environmental Project Manager

Role: Visual Aspects Technical Reviewer
Education: BLA, Landscape Architecture
Expertise: Over 25 years' experience on a variety of projects, including wind, solar, and battery storage facilities, large-scale transmission lines and pipelines, and transportation assessments. He has comprehensive knowledge of the visual resource methodologies and techniques employed by the Bureau of Land Management (BLM), U.S. Forest Service (USFS), and Federal Highway Administration.

Rauhe, Kevin – Environmental Planner

Role: Visual Aspects Technical Author
Education: BLA, Landscape Architecture
Expertise: Over 10 years' experience with a background in landscape architecture specializing in visual resources, National Scenic and Historic Trails, land uses, recreation, wilderness, and specially designated federal lands. He has developed interdisciplinary methodologies to analyze National Scenic and Historic Trails and visual resources for linear projects through coordination with BLM, USFS, National Park Service, and state and local governmental staff.

7.6 Tetra Tech

Crookston, John – Biologist

Role: Purpose of Action Contributor
Education: MS, Ecology; BS, Biology
Expertise: Over 20 years of experience in federal, state, and local environmental permitting.

Fossum, Linnea – Senior Manager

Role: Purpose of Action Contributor
Education: MS, Environmental Engineering and Science; BA, Mathematics
Expertise: Over 25 years of experience in federal, state, and local environmental planning, permitting, environmental site investigations and remedial actions.

7.7 Authors of Supporting Technical Reports

The development of supporting technical reports was provided by Golder Associates Ltd., a member of WSP, and SWCA Environmental Consultants.

Wind Turbine Wildlife Collision Risk Assessment, Horse Heaven Wind Farm

Company: Golder Associates Ltd.

Authors: Ilya Povalyaev, RPBio; Kate Moss, RPBio; and Don Gamble, RPP, MCIP, RPBio

Horse Heaven Wind Farm Project, Final Visual Impact Assessment Report

Company: SWCA Environmental Consultants

Authors: Kevin Rauhe; Craig Johnson, PLA