

DOCKETED

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10 Energy Resources
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13 In the Matter of:
14 Application for Certification
15 for the PUENTE POWER PROJECT

Docket No. 15-AFC-01

16 EXPERT DECLARATION OF IVAN PARR
17 IN RESPONSE TO MARCH 10, 2017
18 COMMITTEE ORDERS

19 I, Ivan Parr, declare as follows:

20 1. I am employed by AECOM, which has been retained by the Applicant in these
21 proceedings to conduct certain analyses associated with the proposed Puente Power Project
22 (Project) and am duly authorized to make this declaration.

23 2. I earned the degree of Bachelor of Science in Environmental Science from St.
24 Mary's College in 2007. I have over 11 years of experience regarding the evaluation of
25 biological resources, including performing, leading, and organizing botanical surveys, vegetation
26 mapping efforts, wetland delineations, and wildlife surveys. A copy of my current curriculum
27 vitae is attached hereto. Based on my education, training and experience, I am qualified to
28 provide expert testimony as to the matters addressed herein.

3. Except where stated on information and belief, the facts set forth herein and in the
attachments hereto are true of my own personal knowledge, and the opinions set forth herein and
in the attachments hereto are true and correct articulations of my opinions. If called as a witness,
I could and would testify competently to the facts and opinions set forth herein and in the
attachments hereto.

1 4. On March 10, 2017, the Committee ordered submission of additional evidence on
2 a limited number of specific issues identified in the “Committee Orders for Additional Evidence
3 and Briefing Following Evidentiary Hearings” (TN #216505) (the “March 10 Orders”).

4 5. The March 10 Orders direct the California Energy Commission staff and
5 Applicant to prepare and submit specific additional evidence pertaining to four topic areas,
6 including “Biological Resources.” With respect to the topic of Biological Resources, the
7 March 10 Orders direct the Applicant to prepare and submit results from one or more focused
8 biological surveys to determine the likelihood for the presence of the following special-status
9 species:

- 10 • Ventura marsh milkvetch
- 11 • Globose dune beetle
- 12 • Two-striped garter snake
- 13 • California legless lizard
- 14 • Blainville’s horned lizard

15 6. Subsequent to issuance of the March 10 Orders, Applicant agreed to also conduct
16 focused biological surveys to determine the likelihood for the presence of the following
17 additional special-status species:

- 18 • Salt marsh bird’s-beak
- 19 • Orcutt’s pincushion
- 20 • Western snowy plover
- 21 • California least tern
- 22 • Least Bell’s vireo
- 23 • Burrowing owl
- 24 • White-tailed kite
- 25 • Northern harrier
- 26 • California black rail

ATTACHMENT

Ivan Parr

Senior Biologist

Professional History

09/2008 - Present, AECOM Senior Biologist

05/2007 - 09/2008, ENTRIX, Inc. Biologist

05/2004 - 08/2006, San Mateo County Parks and Recreation Naturalist

Education

BS, Environmental Science, St. Mary's College, 2007

Years of Experience

With AECOM: 9

With Other Firms: 2

Professional Affiliations

California Native Plant Society

California Academy of Sciences

Casa Avian Support Alliance

Oakland Museum of California

National Audubon Society

Wildlife Society

Certifications

Scientific Collecting Permit #SC-10483 California Department of Fish and Wildlife Plant Voucher Collecting Permit for California Endangered Species Act Endangered, Threatened, and Candidate Species

Mr. Parr is a senior biologist with over 11 years of professional experience in performing, leading, and organizing botanical surveys, vegetation mapping efforts, wetland delineations, and wildlife surveys in northern, central, and southern California. He has a background in field biology and is experienced in plant and animal taxonomy. Mr. Parr is most familiar with California flora and plant communities (including wetlands), intertidal life, birds, and invertebrates. Among his specialties are chaparral, desert, and montane/alpine habitats. Mr. Parr has been involved in studies for invasive, special-status, and cultural (Native American) plant species; avian abundance; fish, amphibian, and reptile populations (including desert tortoise, yellow-legged frog, and Alameda whipsnake, giant garter snake, Mono Basin sage-grouse, and Least Bell's vireo); and macroinvertebrate diversity.

Experience

Lake Tahoe Basin Management, Sunset Stables Restoration, Lake Tahoe, California. Performed special-status plant surveys, including listed bryophyte surveys along the Truckee River of Lake Tahoe. Surveys involved mapping assessments using the rapid assessment method, a full-species inventory, mapping of noxious weeds, mapping of culturally-significant weeds, and special-status plants surveyed under protocol guidelines outlined by the California Department of Fish and Wildlife. Compiled a portfolio of botanical specimens and wrote the draft botanical section of the environmental impact report.

Golden Gate National Parks Conservancy, Redwood Creek Trail Realignment, Marin County, California. Conducted special-status plant surveys for the proposed reroute of the Redwood Creek trail alignment within Mt. Tamalpais State Park.

East Bay Regional Parks District, Road Repair - FEMA-1628-DR-CA, Various Locations, California. Performed field surveys, assisted in determining critical habitat and co-wrote the biological assessment.

San Francisco Public Utilities Commission, Tesla Portal Trenching and Geotechnical Investigation, Tracy, California. Implemented environmental awareness training for geotechnical and construction workers at the Tesla Portal facility to protect wetlands, burrowing owls, San Joaquin kit fox, and other biological resources. Conducted biological monitoring.

California High-Speed Rail Authority, California High-Speed Train - Fresno to Bakersfield Section, Various Locations, California. Conducted wetland monitoring, rare plant surveys, wildlife surveys, compilation of data, and chapters of the Biological Assessment (BA) and the Environmental Impact Report/ Environmental Impact Statement (EIR/EIS). Focused on surveys for blunt-nosed leopard lizard, Blainville's horned lizard,

burrowing owl, San Joaquin kit fox, spadefoot toad, raptors, and vernal pool rare plants. Looked at potential mitigation properties.

California Department of Transportation, Alameda Creek Bridge Replacement, Fremont, California. Assisted with biological assessment, including consultation on Alameda whipsnake habitat, rare plant species, and sensitive communities.

Kinder Morgan Energy Partners, LP, Revegetation/Monitoring, Oakland, California. Conducted annual wetland and tree monitoring, compilation of data, mitigation report, and final report.

Kinder Morgan Energy Partners, Pipeline Construction Monitoring - Concord to Sacramento, Various Locations, California. Performed rare plant surveys and monitoring along pipeline alignment.

San Francisco Public Utilities Commission, Baylands Recovery Revegetation, Oakland, California. Aided botanical assessment and compiled plant lists, mapped plant populations for propagation, and collected and recommended seed for propagation.

Kinder Morgan Energy Partners, LP, Carquinez Strait Cover, Contra Costa County, California. Wrote the biological assessment for the National Oceanic and Atmospheric Administration (NOAA), made determinations on NOAA-regulated fish species in the strait, and assisted in writing permits.

Confidential Utility Client, North American Electric Reliability Corporation Alert Program, , California. Conducted environmental reviews, including ground and helicopter surveys, of sites and surveys for biological constraints, including wildlife habitat, wetland features, and rare plant species.

State Coastal Conservancy, Carmel River Reroute and San Clemente Dam Removal Permitting and Environmental Assessment, Monterey County, California. Assisted with botanical impacts alternatives analysis and project permit applications.

US Air Force, Munitions Response Sites - Rare Plant Surveys, Beale AFB, California. Conducted rare plant surveys and vernal pool surveys.

California Department of Transportation - District 4, Environmental On-Call Contract, San Francisco Bay Area, California. Oversaw tasks involving NEPA/ CEQA environmental studies and documentation, monitoring, and environmental consultation for construction and landscaping. Conducted monthly and annual monitoring and reporting, weekly cost and schedule tracking, and biweekly staff meetings. Revised the mitigation management plan and filled in for Caltrans biological staff.

California High-Speed Rail Authority, California High-Speed Train - Bakersfield to Palmdale Section, Various Locations, California. Prepared chapters for biological assessment and environmental impact report/environmental impact statement. Led field effort for rare plant surveys. Provided consultation for permitting, wildlife usage, sensitive

habitat management, and wetland studies.

California Department of Transportation - District 4, Road Maintenance, Various Locations, California. Conducting roadside monitoring for Swainson's hawk nests.

San Francisco Public Utilities Commission, Calaveras Dam Replacement, Sunol, California. Conducted rare plant surveys, butterfly habitat assessment, and invasive weed mapping.

Port of Oakland, Oakland International Airport - Runway Safety Area Improvement, Oakland, California. Performed rare plant, California least tern, and snowy plover surveys.

California Department of Transportation - District 4 and Bay Area Toll Authority, Dumbarton Bridge Seismic Upgrade - Environmental Permitting, Alameda and San Mateo Counties, California. Conducted biological surveys for avian nesting; conducted marine invertebrate surveys on pilings.

Rhodia, Peyton Slough Remediation, Martinez, California. Conducted and reported on vegetation studies, wildlife habitat, and restoration efforts.

BrightSource Energy, Rio Mesa Solar, San Diego, California. Performed rare plant surveys, California desert species mapping, and analyzed data.

Federal Emergency Management Agency, Humboldt Bay Techite Pipeline Retrofit - HMGP-1731-35-53, Humboldt County, California. Analyzed data and completed species information, rare plant survey, and final write-ups.

US Bureau of Reclamation, San Joaquin River Restoration, Madera and Fresno Counties, California. Performed wildlife and vegetation surveys, including for Valley Elderberry Longhorn Beetle, compiled species lists, and analyzed data.

California Department of Transportation, I-580 Truck Climbing Lane Alternatives, Alameda County, California. Performed rare plant surveys, compiled species lists, mapped vegetation. Assisted with the biological assessment.

Kinder Morgan Energy Partners, LP, Oakland International Airport - LS 36/42 Maintenance Site Review, Oakland, California. Performed and wrote the site visit report, conducted surveys for burrowing owl, northern harrier, and nesting bird species.

Alameda County, Peralta Creek, Bayfair Mall, and Laguna Creek Revegetation - Flood Control Maintenance Mitigation, San Leandro, California. Oversaw maintenance of planting sites, wrote budget and scope, monitored work, and consulted client on planting procedures.

San Francisco Public Utilities Commission, Crocker Amazon Farm Environmental Surveys, San Francisco, California. Conducted surveys focused on sensitive butterfly species and their host plants. Visited

reference populations for the butterflies. Provided full inventory species list, wrote final report.

US General Services Administration, Silverspot Butterfly, Pillar Point AFS, California. Led inventory of invertebrate species at Pillar Point AFS, focusing on Myrtle's silverspot butterfly. Provided full-species inventory and created site report.

San Francisco Public Utilities Commission, Advanced Rainfall Prediction Project, Montara, California. Led field surveys to three separate sites, looking for rare plants, host plants for rare butterfly species, San Francisco dusky-footed woodrat sign, and other sensitive species. Helped compile report.

California American Water, Monterey Peninsula Water Supply Transmission Mains, Monterey and Seaside, California. Coordinated and led natural resources surveys and wetland delineation. Met with clients and other consulting firms over access, managed mapping and display of resources for agencies and client, and prepared botanical and wildlife sections of the technical report for the proposed desalination water pipeline in coastal Monterey County. Conducted protocol-level California red-legged frog surveys, burrowing owl surveys, and rare plant surveys. Mapped sensitive habitat, and host plants for Smith Blue butterfly. Surveyed for raptors, legless lizard, globose dune lizard, Blainville's horned lizard, western pond turtle, American badger, and dozens of other species.

Terra-Gen Power, LLC, Voyager 2 & 3 Windfarm Project, Tehachapi, California. Performed rare plant survey, looking particularly for Bakersfield cactus and their hybrids. Also recorded data on nesting birds, sensitive wildlife species (including Blainville's horned lizard), and species covered under the California Desert Native Plants Act.

Stanford University, Searsville Dam and Reservoir Alternatives Study and Engineering and Hydrology Co, Woodside and Portola Valley, California. Conducted special-status wildlife surveys focusing on snakes (particularly San Francisco garter snake), western pond turtle, California red-legged frog, and special-status birds.

Placer County Water Agency, Licensing Application, Placer County, California. Conducted surveys for riparian and upland habitat assessment for facility betterments, including for special-status and noxious weed species. Assisted in fish population, water quality, macroinvertebrate, raptor, and herpetological field work and research. Compiled comprehensive floral lists. [Prior to AECOM]

Invenergy, LLC, Horse Lake Wind Energy, Sacramento, California. Performed avian point-count surveys, complete vegetation mapping assessments using the rapid assessment method, and botanical surveys (including a full-species inventory) using transects and protocol survey guidelines outlined by the California Department of Fish and Wildlife. These data contributed to the assessment of bird distribution, breeding, and abundance, as well as the locations of rare plant species. Also surveyed for greater sage-grouse and generated a portfolio of botanical specimens. [Prior to AECOM]

Southern California Edison, Big Creek No. 4 Relicensing, Sierra Nevada, California. Led field surveys to locate and identify special-status species, species of cultural importance, and noxious weeds within the facilities. Updated both the animal and plant lists for the project and assisted with surveys for valley elderberry longhorn beetle. [Prior to AECOM]

Monterey County Water Agency, Salinas Valley Water Project Revegetation Plan, Monterey County, California. Determined loss of vegetation, conducted avian nesting surveys, and wrote instructions for restoration in a mitigation plan. Compiled a comprehensive species list for the dam site. [Prior to AECOM]

Pacific Gas and Electric Company, Donnell-Curtis Pole Replacement, Various Locations, California. Aided botanical assessment and compiled plant lists, mapped special-status species habitat and occurrences, and surveyed for valley elderberry longhorn beetle. [Prior to AECOM]