PAUL R. NICKENS, Ph.D.

Statement of Professional Qualifications

EDUCATION

Ph.D., Anthropology, University of Colorado, 1977

M.A., Anthropology/Geography, University of Colorado, 1974

B.A., Anthropology/Geology, University of Colorado, 1969

QUALIFICATION SUMMARY

Dr. Nickens is a consulting archaeologist providing cultural resources services to Federal agencies and national laboratories. From 2005 to the present, he has been a Senior Cultural Resources Specialist with SC&A, Vienna, Virginia. Between 1994 and 2003, he was a Senior Research Scientist with the Pacific Northwest National Laboratory, operated by Battelle, in Richland, Washington. From 1994 to 1997, he served as the Project Manager for the Cultural Resources Program at the U.S. Department of Energy Hanford Site. Prior to that, he was a Research Scientist at the U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, conducting a nationwide research program for in-situ protection and long-term preservation of archaeological, historical, and Tribal properties. From 1978 to 1988, he owned a cultural resources consulting firm, located in western Colorado, which conducted projects throughout the Southwestern U.S. and other western states. He has authored or co-authored over 190 journal articles, books, and reports in the fields of anthropology, archaeology, and cultural resources management.

RELEVANT EXPERIENCE

Dr. Nickens has been involved nearly continuously since 1994 in NRC and DOE environmental reviews associated with licensing, siting, operation, and decommissioning of nuclear facilities, including ISR uranium mining operations, and the long-term storage of spent commercial and other nuclear fuels. Dr. Nickens currently contributes to the development of FSME EAs and sections of EAs for Crow Butte relicensing and related Three Crow, North Trend, and Marsland expansion area ISR facilities in Nebraska. This includes assisting FSME with NHPA Section 106 consultation with several Native American Tribes for TCPs and related issues; performing field visits of the project areas to assess previously recorded cultural resources; and reviewing (including through independent field visits) a TCP survey conducted by Tribal representatives.

Previously, Dr. Nickens provided technical contributions for the NRC NUREG-1555 (Standard Review Plans for Environmental Reviews for Nuclear Power Plants) and NUREG-1555, Suppl. 1, for archaeological and historical resources environmental review plans for plant interaction with the environment, impacts from refurbishment, and impacts from plant operation during the renewal term, and to NUREG 0586 (plant decommissioning GEIS). He was also a technical contributor and reviewer for Suppl. 1 to NRC Regulatory Guide 4.2, Preparation of

Supplemental Environmental Reports for Applications to Renew Nuclear Power Plant Operating Licenses.

Dr. Nickens has additional NRC EIS experience as technical analyst for archaeological and historical resources for the Skull Valley Utah, Independent Spent Fuel Storage Installation EIS (NUREG-1714) and the Proposed National Enrichment Facility, New Mexico, EIS (NUREG-1790). Dr. Nickens has considerable experience for the re-licensing of a nuclear facilities, including technical analyses for nine NRC License Renewal EIS documents and one Early Site Permit EIS for archaeological and historical resources. These include the following NRC projects: 1) Calvert Cliffs, Maryland (NUREG-1437, Suppl.1); 2) Oconee, South Carolina (NUREG-1437, Suppl.2); 3) Arkansas Nuclear One -Unit One, Arkansas (NUREG-1437, Suppl. 3); 4) Hatch, Georgia (NUREG-1437, Suppl. 4); 5) Turkey Point, Florida (NUREG-1437, Suppl. 5); 6) Catawba, South Carolina (NUREG-1437, Suppl. 9); 7) North Anna, Virginia (NUREG-1437, Suppl. 7); 8) Fort Calhoun, Nebraska (NUREG-1437, Suppl. 12); 9) Arkansas Nuclear One -Unit Two, Arkansas (NUREG-1437, Suppl. 19); and the North Anna, Virginia Early Site Permit EIS (NUREG-1811), including on-site visual and aesthetics impacts analysis for historical resources at the Surrey Plant, Virginia, alternate site.

Relevant non-NRC experience includes reviewing cultural resources analyses in EISs and EAs for the DOE Office of NEPA Policy and Compliance. He also completed Cultural Resources Background Analyses for eight DOE EAs for wind turbine projects in Illinois, Indiana, and Ohio. For the DOE, Dr. Nickens provided technical support for the Medical Isotopes Production Project: Molybdenum-99 and Related isotopes EIS, the Waste Isolation Pilot Plant Disposal Phase Supplemental EIS, the Yucca Mountain Nuclear Waste Repository, and the DEIS for the Alignment, Construction, and Operation of the Rail Line to a Geologic Repository at Yucca Mountain.

During his career, Dr. Nickens has served as a subject matter expert witness for the NRC, DOJ, and the DOI, BIA.