



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

August 7, 2015

Mr. Eric Gilliland  
106 Review Coordinator  
The Department of Arkansas Heritage  
Arkansas Historic Preservation Program  
323 Center Street, Suite 1500  
Little Rock, AR 72201

**SUBJECT:    AHPP TRACKING NUMBER 78798: US NUCLEAR REGULATORY  
COMMISSION, CONTINUING PALEOLIQUEFACTION FIELD WORK ALONG  
SELECTED RIVER SEGMENTS IN ARKANSAS**

Dear Gilliland:

The United States Nuclear Regulatory Commission (NRC) has performed the field work described in our Section 106 consultation letter sent to your office, dated August 23, 2012 (enclosed). The field work identified various paleoliquefaction features in Arkansas for the purpose of assessing seismic hazards to commercial nuclear power plants. The NRC's contractor conducted this field work along various river segments in Arkansas (please see Figure 1 below for the location of the work conducted previously) during September – December 2013 and 2014. On September 6, 2012, your office indicated its determination that the field work described in our August 23, 2012 letter would have no adverse effect on historic properties (enclosed).

The NRC plans to continue the field work described in our August 23, 2012 letter during the months of September through December 2015. Figure 2 shows the approximate river segments that will be the subject of this future work. Due to the limited scope and minor disturbance of this field work, the NRC has determined that the proposed field work in the river segments identified in Figure 2 will have no adverse effect on any historic properties located along or in these river segments, assuming such properties are present.

In the event that the NRC considers any particular site along any of the subject river segments to be a candidate site for a paleoliquefaction study, which may involve the excavation of a trench, the NRC will determine the area of potential effects and then initiate consultation with your office and other interested consulting parties, including Native American tribes. The NRC considers such paleoliquefaction study, if pursued, to be a separate undertaking than the field work described in our August 23, 2012 letter.<sup>1</sup>

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<sup>1</sup> By letter dated July 29, 2014, the NRC initiated Section 106 consultation with your office for proposed excavation work at two sites in Arkansas. In a letter dated September 3, 2014, your office determined that any impacts to historic properties arising from the proposed excavation work would be minimal and is in accord with NRHP significance testing (AHPP Tracking Number 78798.1). The NRC intends to begin the excavation work described in its July 29, 2014 letter in October or November 2015.

E. Gilliland

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Please provide your comments on our determination of no adverse effect for the proposed field work at your earliest convenience. If you have any questions or require additional information, please contact Thomas Weaver by phone at (301) 415-2383 or by email at [Thomas.Weaver@nrc.gov](mailto:Thomas.Weaver@nrc.gov). All written correspondence should be sent to the NRC at the following address with attention to the Document Control Desk. We look forward to your feedback.

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Sincerely,

***/RA Kathryn M. Brock for/***

Brian E. Thomas, Director  
Division of Engineering  
Office of Nuclear Regulatory Research

Enclosure:

Letter from NRC to the Department of Arkansas Heritage dated August 23, 2012

Response from the Department of Arkansas Heritage dated September 6, 2012

E. Gillaland

-2-

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Brian E. Thomas, Director  
Division of Engineering  
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Enclosure:

Letter from NRC to the Department of Arkansas Heritage dated August 23, 2012  
Response from the Department of Arkansas Heritage dated September 6, 2012

cc: Dr. Martitia Tuttle  
M. Tuttle & Associates  
128 Tibbetts Lane  
Georgetown, ME 04548

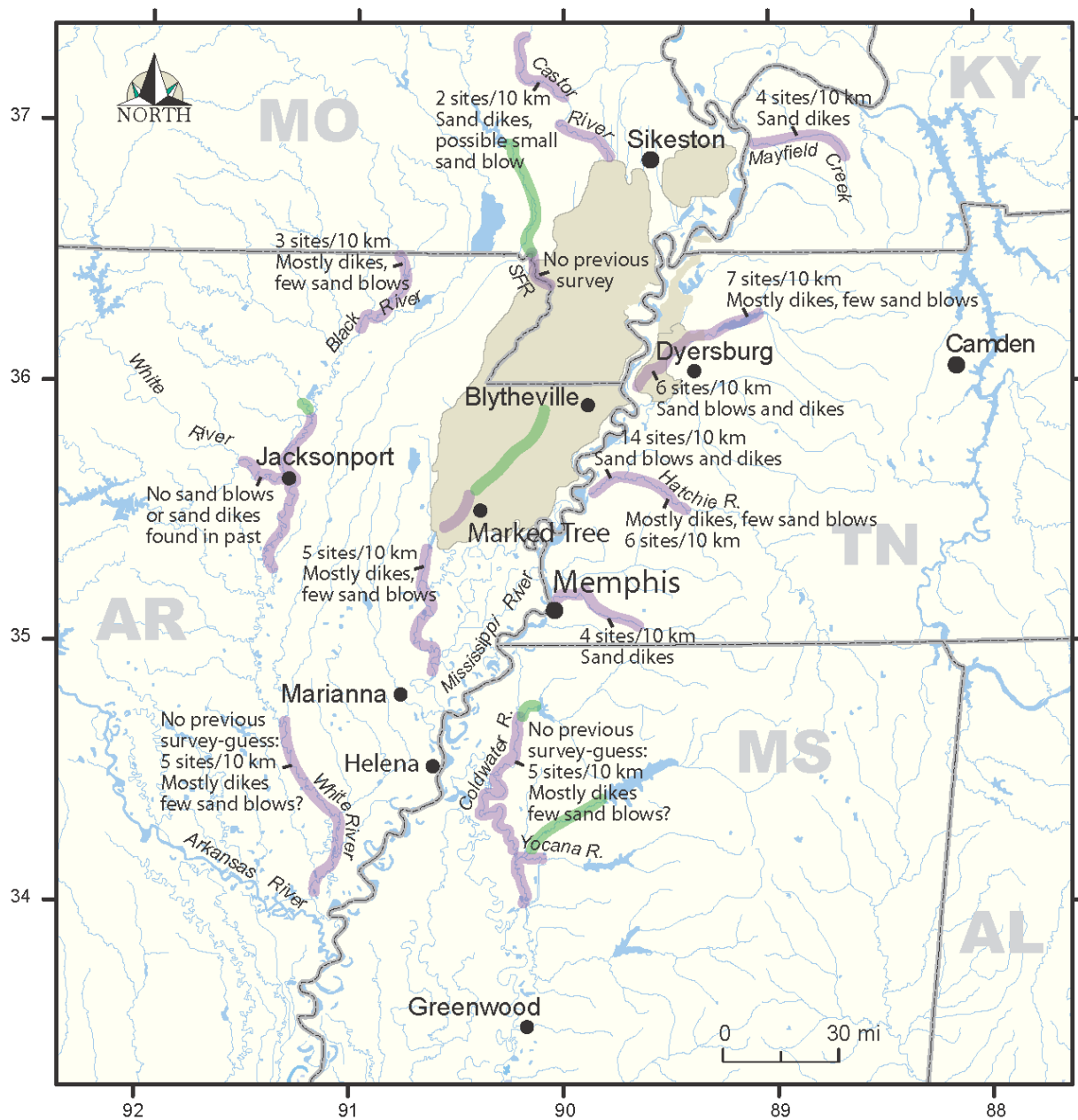
Dr. Thomas Weaver, P.E., NRC/RES/DE/SGSEB  
Mr. Andrew Pessin, Esq., NRC/OGC/GCLR/RMR  
Mr. Stuart Easson, NRC/NMSS/MSTR/FSTB

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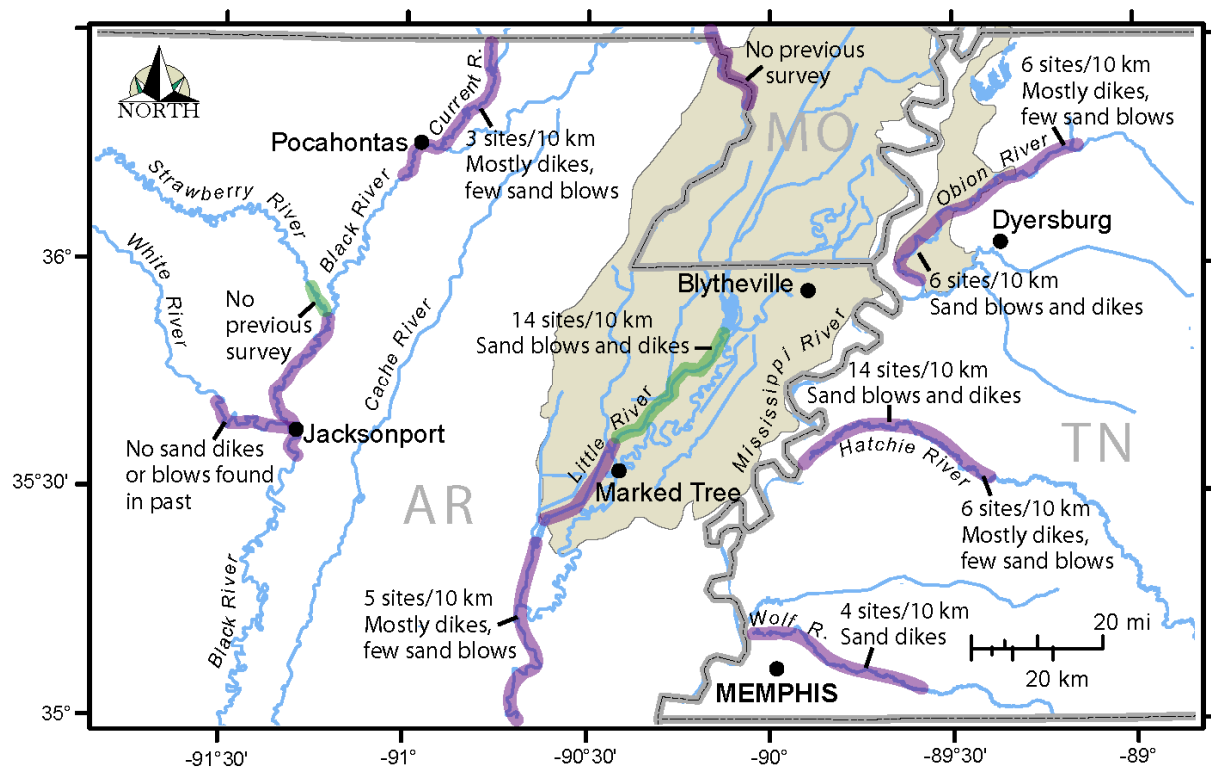
**RES No:**

OFFICE	RES/DE/SGSEB	RES/DE/SGSEB	OGC (via email)	D: RES/DE
NAME	JPB for T. Weaver	J. Burke	A. Pessin	KMB for B. Thomas
DATE	08/06/15	08/06/15	7/23/15	08/07/15

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**Figure 1 Map of paleoliquefaction study area in the Central U.S. River segments where the NRC conducted previous field work is delineated in purple. River segments where the NRC proposes to conduct additional field work is delineated in green.**



**Figure 2 Map of paleoliquefaction study area in northern Arkansas. River segments where the NRC conducted previous field work is delineated in purple. River segments where the NRC proposes to conduct additional field work is delineated in green.**