

Appendix A – Correspondence

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Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

June 11, 2008

Mr. E. Patrick McIntyre, Jr.
 Executive Director
 Tennessee Historical Commission
 Clover Bottom Mansion
 2941 Lebanon Road
 Nashville, Tennessee 37243-0442

Dear Mr. McIntyre

**TVA CULTURAL RESOURCES SURVEY OF THE VOLUNTEER-MIDWAY 161-KV
 TRANSMISSION LINE, KNOX COUNTY, TENNESSEE**

The Tennessee Valley Authority (TVA) plans to construct and operate a 161-kV transmission line (TL) from the Volunteer 500-kV Substation to the Midway Road 161-kV Substation in Knox County Tennessee. TVA Cultural Resources staff identified the archaeological area of potential effect (APE) to be the 16.1 mile TL right-of-way (ROW). The architectural/historical APE consists of a 0.5-mile radius surrounding the TL ROW, for which a line-of-sight from a historic property to the TL would exist.

TVA contracted with TRC, Inc. (TRC) to conduct the cultural resources survey of the APE. Prior to the field survey, TRC conducted archival research at the Tennessee Division of Archaeology and the Tennessee Historical Commission to identify all documented historic properties within and near the APE. No previous identified archaeological sites were located within the APE. Fourteen (14) previously recorded architectural resources (KN-286, 2387-2391, 2402-2404, 2533, 2534, 2540, 2616, and 2669) were identified within the architectural APE.

Following the archival research, TRC conducted the cultural resources survey. Please find enclosed two copies of the report titled *Phase I Cultural Resources Survey of the Proposed Volunteer-Midway 161-kV Transmission Line, Knox County, Tennessee*.

The archaeological survey, conducted on April 28 and 30, 2008, identified two new archaeological sites (40KN302 and 40KN303). Site 40KN302 consists of a late nineteenth to twentieth century historic artifact scatter and is recommended ineligible for inclusion to the National Register of Historic Places (NRHP). Site 40KN303 consists of a Woodland and Mississippian open habitation. Due to the potential for intact deposits, TVA recommends 40KN303 eligible for NRHP. To avoid affecting the site, TVA proposes to not place any TL structures within 100 feet of the site and no rutting or excavations would occur within the sites' boundaries during the construction, operation, and maintenance of the TL.

Mr. E. Patrick McIntyre, Jr.
Page 2
June 11, 2008

Since shovel testing in the area of 40KN303 showed the potential for deeply buried deposits, should TVA place a structure within the alluvial setting adjacent to 40KN303, TVA will conduct deep testing to determine if the location contains any buried archaeological deposits. If deeply buried deposits are identified, TVA will avoid these deposits. If avoidance is not possible outside of site 40KN303, TVA will consult further with your office, regarding the testing and treatment of a NRHP-eligible site.

During the conduct of architectural survey, twenty four historic/architectural resources (HS-1- HS-24) were identified. Evaluation of these resources resulted in TRC's recommendation that the structures are ineligible for listing in the NRHP. During the field survey, TRC also revisited the fourteen previously recorded architectural resources. Of the fourteen, three (KN-2390, 2402, and 2404) are no longer extant and six (KN-286, 2388, 2391, 2533, 2534, and 2540) are located outside the visual line-of-sight. The remaining resources are recommended ineligible for NRHP due to lack of architectural distinction and loss of integrity caused by modern alterations. It is TVA's opinion that no architectural resources potentially eligible for the NRHP would be affected by the proposed undertaking and no further investigations are recommended.

TVA has reviewed the enclosed report and agrees with the recommendations of the authors. Pursuant to 36 CFR Part 800, we are seeking your concurrence with TVA's findings and recommendations.

Should you have any questions or comments, please contact Richard Yarnell at 865/632-3463 or wryarnell@tva.gov.

Sincerely,



Thomas O. Maher, Ph.D.
Manager
Cultural Resources

Enclosures

cc: Ms. Jennifer Barnett (w/Enclosure)
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

June 23, 2008

To those listed

TVA CULTURAL RESOURCES SURVEY OF THE VOLUNTEER-MIDWAY 161-KV TRANSMISSION LINE, KNOX COUNTY, TENNESSEE

The Tennessee Valley Authority (TVA) plans to construct and operate a 161-kV transmission line (TL) from the Volunteer 500-kV Substation to the Midway Road 161-kV Substation in Knox County, Tennessee. TVA Cultural Resources staff identified the archaeological area of potential effect (APE) to be the 16.1 mile TL right-of-way (ROW).

TVA contracted with TRC, Inc. (TRC) to conduct the cultural resources survey of the APE. Prior to the field survey, TRC conducted archival research at the Tennessee Division of Archaeology and the Tennessee Historical Commission to identify all documented historic properties within and near the APE. No previously identified archaeological sites were located within the APE.

The archaeological survey, conducted on April 28 and 30, 2008, identified two new archaeological sites (40KN302 and 40KN303). Site 40KN302 consists of a late nineteenth to twentieth century historic artifact scatter and is recommended ineligible for inclusion to the National Register of Historic Places (NRHP). Site 40KN303 consists of a Woodland and Mississippian open habitation. Due to the potential for intact deposits, TVA recommends 40KN303 eligible for NRHP. To avoid affecting the site TVA proposes to not place any TL structures within 100 feet of the site and no rutting or excavations would occur within the site's boundaries during the construction, operation, and maintenance of the TL.

Since shovel testing in the area of 40KN303 showed the potential for deeply buried deposits, should TVA place a structure within the alluvial setting adjacent to 40KN303, TVA will conduct deep testing to determine if the location contains any buried archaeological deposits. If deeply buried deposits are identified, TVA will avoid these deposits.

An online version of the draft site report entitled *Phase I Cultural Resources Survey of the Proposed Volunteer-Midway 161-kV Transmission Line, Knox County, Tennessee* can be viewed at <http://www.trcsolutions.com>. Directions for accessing this website can be found in the attached enclosure.

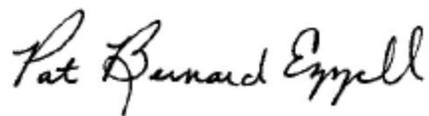
TVA is consulting with the following federally recognized Indian tribes regarding properties within the proposed project's APE that may be of religious and cultural significance to them and eligible for the NRHP: Cherokee Nation, Eastern Band of Cherokee Indians, United Keetoowah Band of Cherokee Indians in Oklahoma, The Chickasaw Nation, Choctaw Nation of Oklahoma, Jena Band of Choctaw Indians, Muscogee (Creek) Nation of Oklahoma, Alabama-Coushatta Tribe of Texas, Alabama-Quassarte Tribal Town, Kialegee Tribal Town, Thlopthlocco Tribal Town, Absentee Shawnee Tribe of Oklahoma, Eastern Shawnee Tribe of Oklahoma, and Shawnee Tribe.

Page 2
June 23, 2008

By this letter, TVA is providing notification of these findings, and is seeking your comments regarding this undertaking and any properties that may be of religious and cultural significance and may be eligible for the NRHP.

Should you have any questions or would like a printed version of this report, please contact me via phone at 865/632-6461 or via e-mail at pbezzell@tva.gov. Please respond within 30 days of receipt of this letter, if you have any comments on the proposed undertaking.

Sincerely,

A handwritten signature in black ink that reads "Pat Bernard Ezzell". The signature is written in a cursive style with a large initial "P".

Pat Bernard Ezzell
Historian/Native American Liaison

Enclosure

IDENTICAL LETTER SENT TO:

Dr. Richard Allen
Policy Analyst
Cherokee Nation
Post Office Box 948
Tahlequah, Oklahoma 74465

Ms. Augustine Asbury
Cultural Preservation Coordinator
Alabama-Quassarte Tribal Town
Post Office Box 187
Wetumka, Oklahoma 74883

Ms. Joyce Bear
Historic Preservation Officer
Muscogee (Creek) Nation of Oklahoma
Post Office Box 580
Okmulgee, Oklahoma 74447

Mr. Bryant Celestine
Tribal Historic Preservation Officer
Alabama-Coushatta Tribe of Texas
571 State Park Rd. 56
Livingston, Texas 77351

Mr. Terry Cole
Cultural Resources Director
Choctaw Nation of Oklahoma
Post Office Drawer 1210
Durant, Oklahoma 74702

cc: Ms. Caren Johnson
Cultural Resources Office
Choctaw Nation of Oklahoma
Post Office Drawer 1210
Durant, Oklahoma 74702

cc: Chief Gregory E. Pyle
Choctaw Nation of Oklahoma
Post Office Drawer 1210
Durant, Oklahoma 74702

Mr. Charles Coleman
NAGPRA Representative
Thlopthlocco Tribal Town
Route 1, Box 190-A
Weleetka, Oklahoma 74880

Ms. Robin DuShane
Cultural Preservation Director
Eastern Shawnee Tribe of Oklahoma
127 West Oneida
Seneca, Missouri 64865

Volunteer-East Knox Bulk Transmission Project

Mr. Tyler Howe
Historic Preservation Specialist
Eastern Band of the Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719

cc: Mr. Russ Townsend
Tribal Historic Preservation Officer
Eastern Band of the Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719

Ms. Karen Kaniatobe
Tribal Historic Preservation Officer
Absentee Shawnee Tribe of Oklahoma
2025 S. Gordon Cooper
Shawnee, Oklahoma 74801

Mrs. Jemmie Lillard
Tribal Town King
Kialegee tribal Town
Post Office Box 332
Wetumka, Oklahoma 74883

Ms. Lillie McCormick
Environmental Director
Jena Band of Choctaw Indians
Post Office Box 14
Jena, Louisiana 71342

Ms. Virginia (Gingy) Nail
Tribal Historic Preservation Officer
The Chickasaw Nation
Cultural Resources Department
Post Office Box 1548
Ada, Oklahoma 74821

Mr. Kirk Perry
Administrator of Policy and Standards
Cultural Resources
The Chickasaw Nation
Cultural Resources Department
Post Office Box 1548
Ada, Oklahoma 74821

Mr. Ron Sparkman
Chairman
Shawnee Tribe
Post Office Box 189
Miami, Oklahoma 74355

cc: Ms. Belinda Pryor
Assistant Tribal Historic Preservation Officer
Shawnee Tribe
Post Office Box 189
Miami, Oklahoma 74355

Ms. Lisa Stopp
Interim Director, Language, History and Culture &
Acting Tribal Historic Preservation Officer
United Keetoowah Band
of Cherokee Indians in Oklahoma
Post Office Box 746
Tahlequah, Oklahoma 74464

Chief Glenna J. Wallace
Eastern Shawnee Tribe of Oklahoma
127 West Oneida
Seneca, Missouri 64865



July 16, 2008

TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

Dr. Thomas O. Maher
Tennessee Valley Authority
400 West Summit Hill Dr.
Knoxville, Tennessee, 37902-1499

RE: TVA, VOLUNTEER/MIDWAY 161KV LINE, UNINCORPORATED, KNOX COUNTY

Dear Dr. Maher:

In response to your request, received on Sunday, June 15, 2008, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process. You may also find additional information concerning the Section 106 process and the Tennessee SHPO's documentation requirements at <http://www.tennessee.gov/environment/hist/federal/sect106.shtml>.

Based on available information, we concur that the project as currently proposed will NOT ADVERSELY AFFECT ANY NATIONAL REGISTER OF HISTORIC PLACES-LISTED PROPERTY INCLUDING ARCHAEOLOGICAL SITE 40KN303 SO LONG AS THE FOLLOWING CONDITION (S) ARE MET:

ALL PROJECT-RELATED ACTIVITY AVOIDS SITE 40KN303.

Unless project plans change, and so long as the condition is met, this office has no objection to the implementation of this project. Should project plans change, please contact this office to determine what additional action, if any, is necessary. Questions and comments may be directed to Joe Garrison (615) 532-1550-103. Your cooperation is appreciated.

Sincerely,

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jyg



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

July 24, 2008

Mr. E. Patrick McIntyre, Jr.
Executive Director
Tennessee Historical Commission
Clover Bottom Mansion
2941 Lebanon Road
Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

CULTURAL RESOURCE SURVEY OF THE PROPOSED VOLUNTEER-MIDWAY 161-KV TRANSMISSION LINE, KNOX COUNTY, TENNESSEE

Please find enclosed six (6) copies of the final report titled *Phase I Cultural Resources Survey of the Proposed Volunteer-Midway 161-kV Transmission Line, Knox County, Tennessee*.

Should you have any questions or comments, please contact Richard Yarnell at 865/632-3463 or wryarnell@tva.gov.

Sincerely,

A handwritten signature in black ink that reads "Thomas O. Maher". The signature is fluid and cursive.

Thomas O. Maher, Ph.D.
Manager
Cultural Resources

Enclosure

cc: Ms. Jennifer Barnett (w/Enclosure)
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

July 31, 2008

Dr. Thomas Maher
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, Tennessee 37902-1499

RE: TVA, ARCHAEOLOGICAL ASSESSMENT, VOLUNTEER-MIDWAY 161-KV LINE,
UNINCORPORATED, KNOX COUNTY

Dear Dr. Maher:

At your request, our office has reviewed the above-referenced archaeological survey final report in accordance with regulations codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739). We find that the report meets the Tennessee SHPO Standards and Guidelines For Archaeological Resource Management Studies.

If project plans are changed or archaeological remains are discovered during construction, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act.

Your continued cooperation is appreciated.

Sincerely,

A handwritten signature in cursive script, appearing to read "Richard H. Tom".

EP E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jmb



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

August 21, 2009

Mr. George Kern, III
8220 Rutledge Pike
Knoxville, Tennessee 37924

Dear Mr. Kern:

ARCHITECTURAL RESOURCE SURVEY OF STRONG FARM AS PART OF THE PROPOSED
VOLUNTEER-MIDWAY 161-KV TRANSMISSION LINE

Per your request, please find enclosed the portion of the architectural resource survey regarding your property (the Strong Stock Farm). The assessment was conducted by the Tennessee Valley Authority's (TVA) contractor TRC and was conducted as part of TVA's proposed Volunteer-Midway transmission line (TL) cultural resources survey. The survey report, titled *Phase I Architectural Survey of Proposed Alternate Line Segments for the Volunteer-Midway 161-kV Transmission Line, Knox County, Tennessee* determined your property, the Strong Stock Farm, to be within the area of potential effects.

The Volunteer-Midway TL project is currently on hold. No decisions have been made regarding a preferred route or other alternative routes. Since the project was placed on hold, the status of determining a preferred route and considering alternative routes is unknown. TVA has not further consulted with the Tennessee State Historic Preservation Officer (TN SHPO) and other interested parties. Thus, TVA's findings and recommendations regarding the effects of the proposed TL project on historic properties eligible for listing on the National Register of Historic Places, including that portion of your property south of Rutledge Pike, are not complete.

Should the project proceed, TVA would renew consultation with the TN SHPO and other interested parties to complete the process for Section 106 of the *National Historic Preservation Act*.

Should you have any questions or comments, please contact Richard Yarnell at 865/632-3463 or wryarnell@tva.gov.

Sincerely,

A handwritten signature in black ink that reads "Eric Howard".

A. Eric Howard
Manager (Interim)
Cultural Resources



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

September 15, 2011

Mr. E. Patrick McIntyre, Jr.
Executive Director
Tennessee Historical Commission
2941 Lebanon Road
Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

TENNESSEE VALLEY AUTHORITY (TVA), DUMPLIN VALLEY-NIXON ROAD 161-kV
TRANSMISSION LINE LOOP, KNOX COUNTY, TENNESSEE

TVA proposes to construct a new transmission line (TL) loop from the Nixon Road-Dumplin Valley 161-kV TL to the proposed East Knox substation in Knox County, Tennessee. TVA identified the area of potential effects (APE) as the 100-foot right of way (ROW) for the approximately 1.0-mile-long proposed new loop TL. The architectural APE was identified as a 1.0-mile-wide area linearly centered along the proposed TL.

No archaeological resources have been identified previously in the APE. Four architectural resources (KN-2429, KN-2533, KN-2534 and KN-2540) have been previously identified within the architectural APE but have not been evaluated for their eligibility for listing on the National Register of Historic Places (NRHP). A fifth property (HS-3) that was previously identified within the APE was determined ineligible by TVA, and your office concurred with this finding by letter dated July 16, 2008.

TVA contracted with TRC Environmental Corporation (TRC) to perform a Phase I cultural resources survey of the APE. Enclosed are 3 copies of the draft report titled *Phase I Cultural Resources Survey of the Dumplin Valley–Nixon Road 161-kV Transmission Line Loop, Knox County, Tennessee*, along with 3 CDs containing digital copies.

The archaeological survey identified no archaeological resources. The architectural survey identified three previously unrecorded architectural resources (HS-1, HS-2, and HS-4). TRC recommends that all three properties are not eligible for the NRHP due to their lack of architectural distinction and to loss of integrity caused by modern alterations and/or damage. The survey also revisited previously recorded property HS-3 and TRC recommends it ineligible for the NRHP based on a lack of architectural distinction. Properties KN-2429, KN-2533, KN-2534, and KN-2540 are located outside the visual line-of-sight to the proposed new TL.

Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding historic properties within the proposed project's APE that may be of religious and cultural significance and are eligible for the NRHP.

Mr. E. Patrick McIntyre, Jr.
Page 2
September 15, 2011

TVA has reviewed the enclosed report and agrees with the recommendations of the authors. Pursuant to 36 CFR Part 800.4(d)(1), we are seeking your concurrence with TVA's findings and recommendations that no historic properties would be affected by the proposed undertaking.

Should you have any questions or comments, please contact Richard Yarnell in Knoxville at wryarnel@tva.gov or (865) 632-3463.

Sincerely,



Clinton E. Jones
Senior Manager
Biological and Cultural Compliance
WT 11C-K

Enclosures

cc: Ms. Jennifer Barnett (Enclosures)
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



October 3, 2011

TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

Mr. Clinton E. Jones
Tennessee Valley Authority
400 W. Summet Hill Dr.
Knoxville, Tennessee, 37902-1499

RE: TVA, DUMPLIN VALLEY-NIXON RD.161 KV LN, UNINCORPORATED, KNOX COUNTY

Dear Mr. Jones:

In response to your request, received on Tuesday, September 20, 2011, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process.

After considering the documents you submitted, we determine that THERE ARE NO NATIONAL REGISTER OF HISTORIC PLACES LISTED OR ELIGIBLE PROPERTIES AFFECTED BY THIS UNDERTAKING. We have made this determination either because: the undertaking will not alter any characteristics of an identified eligible or listed Historic Property that qualify the property for listing in the National Register, the undertaking will not alter an eligible Historic Property's location, setting or use, the specific location, scope and/or nature of the undertaking precluded affect to Historic Properties, the size and nature of the undertaking's area of potential effects precluded affect to Historic Properties, or, no National Register listed or eligible Historic Properties exist within the undertaking's area of potential effects. Therefore, we have no objections to your proceeding with your undertaking.

If your agency proposes any modifications in current project plans or discovers any archaeological remains during the ground disturbance or construction phase, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act. If you are applying for federal funds, license or permit, you should submit this letter as evidence of consultation under Section 106 to the appropriate federal agency, which, in turn, should contact us as required by 36 CFR 800. If you represent a federal agency, you should submit a formal determination of eligibility and effect to us for comment. You may find additional information concerning the Section 106 process and the Tennessee SHPO's documentation requirements at <http://www.tennessee.gov/environment/hist/federal/sect106.shtm>. You may direct questions or comments to Joe Garrison (615) 532-1550-103. This office appreciates your cooperation.

Sincerely,

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jyg



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1499

October 20, 201

Those listed on page 3

TENNESSEE VALLEY AUTHORITY (TVA), DUMPLIN VALLEY-NIXON ROAD 161-kV TRANSMISSION LINE LOOP, KNOX COUNTY, TENNESSEE

TVA proposes to construct a new transmission line (TL) loop from the Nixon Road-Dumplin Valley 161-kV TL to the proposed East Knox substation in Knox County, Tennessee. TVA identified the area of potential effects (APE) as the 100-foot right of way (ROW) for the approximately 1.0-mile-long proposed new loop TL. The architectural APE was identified as a 1.0-mile-wide area linearly centered along the proposed TL.

No archaeological resources have been identified previously in the APE. Four architectural resources (KN-2429, KN-2533, KN-2534 and KN-2540) have been previously identified within the architectural APE but have not been evaluated for their eligibility for listing on the National Register of Historic Places (NRHP). A fifth property (HS-3) that was previously identified within the APE was determined ineligible by TVA, and your office concurred with this finding by letter dated July 16, 2008.

TVA contracted with TRC Environmental Corporation (TRC) to perform a Phase I cultural resources survey of the APE. The draft report titled *Phase I Cultural Resources Survey of the Dumplin Valley–Nixon Road 161-kV Transmission Line Loop, Knox County, Tennessee*, can be found on-line at <https://trcnet.trcsolutions.com>.

The archaeological survey identified no archaeological resources. The architectural survey identified three previously unrecorded architectural resources (HS-1, HS-2, and HS-4). TRC recommends that all three properties are not eligible for the NRHP due to their lack of architectural distinction and to loss of integrity caused by modern alterations and/or damage. The survey also revisited previously recorded property HS-3 and TRC recommends it ineligible for the NRHP based on a lack of architectural distinction. Properties KN-2429, KN-2533, KN-2534, and KN-2540 are located outside the visual line-of-sight to the proposed new TL.

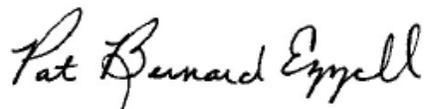
Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding historic properties within the proposed project's APE that may be of religious and cultural significance and are eligible for the NRHP: Cherokee Nation, Eastern Band of Cherokee Indians, United Keetoowah Band of Cherokee Indians in Oklahoma, Muscogee (Creek) Nation of Oklahoma, Alabama-Coushatta Tribe of Texas, Alabama-Quassarte Tribal Town, Kialegee Tribal Town, Thlopthlocco Tribal Town, Seminole Tribe of Florida, Absentee Shawnee Tribe of Oklahoma, Eastern Shawnee Tribe of Oklahoma, and the Shawnee Tribe.

Those listed on page 3
Page 2
October 20, 2011

TVA has reviewed the enclosed report and agrees with the recommendations of the authors. By this letter, TVA is providing notification of these findings and is seeking your comments regarding this undertaking and any properties that may be of religious and cultural significance and may be eligible for the NRHP pursuant to 36CFR §§§ 800.2 (c)(2)(ii), 800.3 (f)(2), and 800.4 (a)(4)(b).

Please respond within 30 days of receipt of this letter if you have any comments on the proposed undertaking. If you have any questions or would like a printed version of this report, please contact me at (865) 632-6461 or by email at pbezzell@tva.gov.

Sincerely,



Patricia Bernard Ezzell
Tribal Liaison and Corporate Historian
Federal Determinations
WT 11D-K

Enclosures

**IDENTICAL LETTER AND ENCLOSURES SENT TO THE FOLLOWING LIST OF NAMES ON
October 20, 2011**

Dr. Richard Allen
Policy Analyst
Cherokee Nation
Post Office Box 948
Tahlequah, Oklahoma 74465-0948

Ms. Augustine Asbury
Cultural Preservation Coordinator
Alabama Quassarte Tribal Town
Post Office Box 187
Wetumka, Oklahoma 74883-0187

Second Chief Alfred Berryhill
Muscogee (Creek) Nation
Post Office Box 580
Okmulgee, Oklahoma 74447-0580

Mr. Bryant Celestine
Tribal Historic Preservation Officer
Alabama-Coushatta Tribe of Texas
571 State Park Rd. 56
Livingston, Texas 77351

Mr. Charles Coleman
NAGPRA Representative
Thlopthlocco Tribal Town
Route 1, Box 190-A
Weleetka, Oklahoma 74880

Ms. Robin DuShane (Enclosures)
Cultural Preservation Director
Eastern Shawnee Tribe of Oklahoma
127 West Oneida
Seneca, Missouri 64865

Ms. Henryetta Ellis
Tribal Historic Preservation Officer
Absentee Shawnee Tribe of Oklahoma
2025 S. Gordon Cooper
Shawnee, Oklahoma 74801

Mr. Henry Harjo
Environmental Director
Kialegee Tribal Town
Post Office Box 332
Wetumka, Oklahoma 74883-0332

Volunteer-East Knox Bulk Transmission Project

Mr. Tyler Howe
Historic Preservation Specialist
Eastern Band of Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719-0455

cc: Mr. Russ Townsend
Tribal Historic Preservation Officer
Eastern Band of Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719-0455

Mr. Ted Isham, Manager
Cultural Preservation Department
Muscogee (Creek) Nation
Post Office Box 580
Okmulgee, Oklahoma 74447-0580

Ms. Lisa C. LaRue
Director, Language, History and Culture &
Acting Tribal Historic Preservation Officer
United Keetoowah Band
of Cherokee Indians in Oklahoma
Post Office Box 746
Tahlequah, Oklahoma 74464-0746

Ms. Jennifer Pietarila
Archaeological Data Analyst
Seminole Tribe of Florida
Ah-Tah-Thi-Ki Museum
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Clewiston, Florida 33440

cc: Ms. Anne Mullins
Project Coordinator
Seminole Tribe of Florida
Ah-Tah-Thi-Ki Museum
HC-61, Box 21-A
Clewiston, Florida 33440

cc: Mr. Willard Steele
Tribal Historic Preservation Officer
Seminole Tribe of Florida
Ah-Tah-Thi-Ki Museum
HC-61, Box 21-A
Clewiston, Florida 33440



Tennessee Valley Authority, 400 West Summit Hill Drive, WT 11A-K, Knoxville, Tennessee 37902

December 08, 2011

cc: Cynthia M. Anderson, LP 5D-C
Todd Liskey, MR 4G-C
Anita E. Masters, LP 5U-C
Khurshid K. Mehta, WT 6A-K
EDMS, WT 11D-K

Mr. E. Patrick McIntyre, Jr.
Executive Director
Tennessee Historical Commission
2941 Lebanon Road
Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

TENNESSEE VALLEY AUTHORITY (TVA), DUMPLIN VALLEY-NIXON ROAD 161- kV
TRANSMISSION LINE LOOP, KNOX COUNTY, TENNESSEE

Please find enclosed two hard copies and two electronic copies of the final report titled, *Phase I Cultural Resources Survey of the Dumplin Valley-Nixon Road 161-kV Transmission Line Loop, Knox County, Tennessee*. Your concurrence with the findings of no historic properties affected was documented in a letter dated October 3, 2011.

This fulfills TVA's obligations under section 106 for this project. If project plans are altered or there are inadvertent discoveries during construction, TVA will consult with your office.

Should you have any questions or comments, please contact Richard Yarnell at wryarnell@tva.gov or (865) 632-3463.

Sincerely,

A handwritten signature in black ink that reads "Clinton E. Jones".

Clinton E. Jones
Senior Manager, Biological and Cultural Compliance
Environmental Permits and Compliance
WT 11A-K

SCC: SLY
Enclosures

cc (Enclosures):

Ms. Jennifer Barnett
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

December 14, 2011

Mr. Clinton Jones
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, Tennessee 37902-1499

RE: TVA, ARCHAEOLOGICAL ASSESSMENT, DUMPLIN VALLEY-NIXON
161-KV LOOP, UNINCORPORATED, KNOX COUNTY

Dear Mr. Jones:

At your request, our office has reviewed the above-referenced archaeological survey final report in accordance with regulations codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739). We find that the report meets the Tennessee SHPO Standards and Guidelines For Archaeological Resource Management Studies.

If project plans are changed or archaeological remains are discovered during construction, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act.

Your continued cooperation is appreciated.

Sincerely,

A handwritten signature in black ink that reads "E. Patrick McIntyre, Jr." in a cursive script.

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jmb

Jeff,

There is a transmission line project that will require a section of new transmission line to be built and cross the Holston River NRI stream approximately at RM 8 near a water filtration plant in Knoxville, TN. This line is on existing TVA owned ROW and will parallel the existing line that already crosses here but this new transmission line will be built to replace the older line to facilitate the needed power requirements for East Knox County TN. I wanted to notify you of the plans because it does cross the NRI stream.

Our determination is that there would be no impacts due to proper BMPs would be implemented to prevent sediment and debris from entering the river and that there would be no visual or aesthetic impacts because there is already an existing older line in place. I have included a map for your review. The purple line is the TL crossing. If you have any questions or need more information, please contact me.

Thanks,
Heather

Heather M. Hart
Natural Areas Coordinator
Tennessee Valley Authority
Office of Environment and Technology
400 West Summit Hill Dr.-WT11C
Knoxville, TN 37902
Office: 865-632-6362
Fax:865-632-4223

From: Wilson, David B
Sent: Monday, February 06, 2012 5:45 PM
To: Hart, Heather M
Subject: Question on Vol-East Knox EA-(18357)

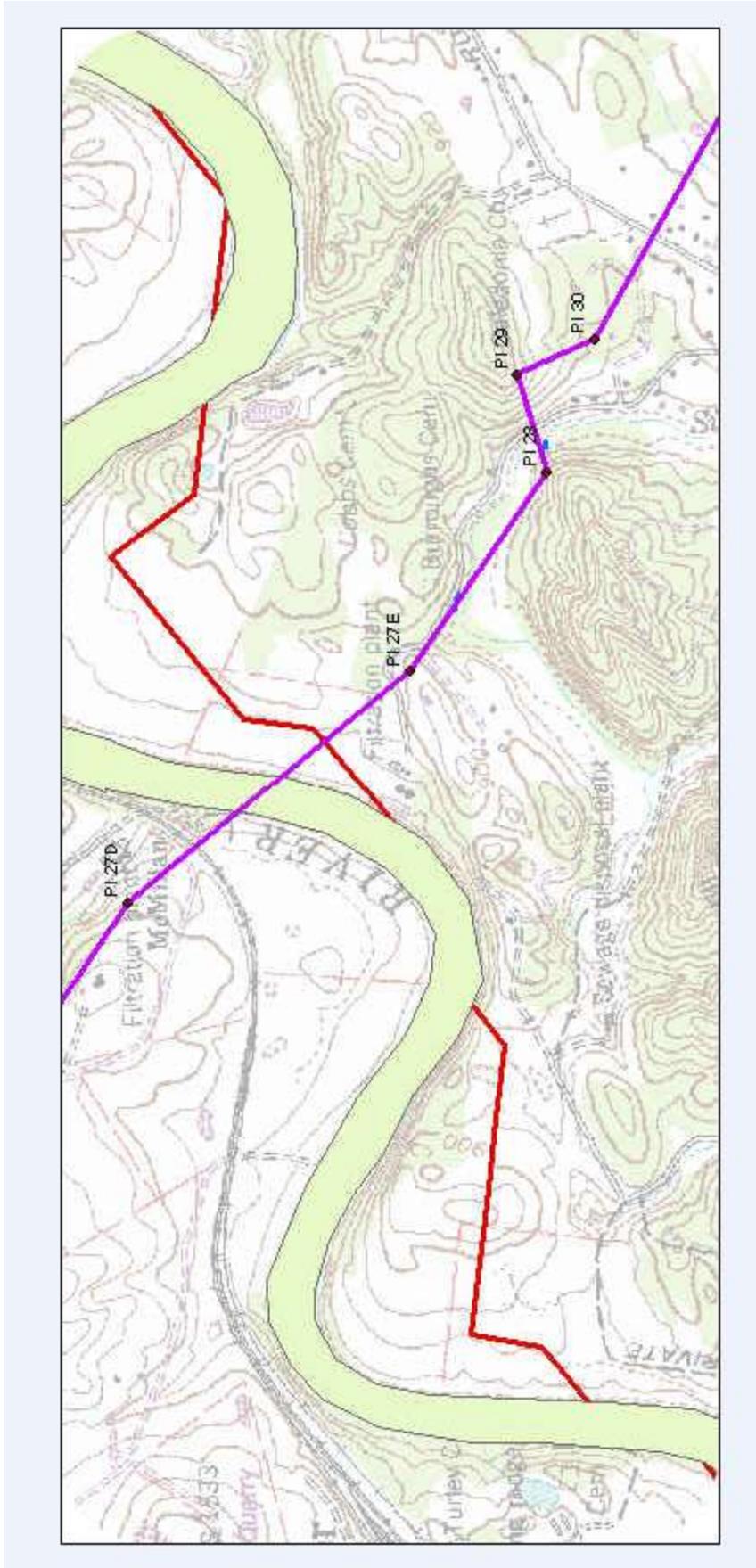
Hey Heather,

I know you have told me this before for NRI streams, but I forgot. On the Volunteer-East Knox EA, a new transmission line is crossing the Holston River, an NRI stream (and a nonessential experimental population as well) <see photo>. This a new TL so they will be clearing the ROW. I know for maintenance on TL's that cross NRI streams, we don't usually put contacts.

I thought for new TLs crossing NRI streams, we do include a contact. Is this correct? Also, do we flag non-essential experimental population sites?

Thanks,

David. (See attached file: Holston River on Vol E-Knox EA.jpg)





Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

April 16, 2012

cc: Cynthia M. Anderson, LP 5D-C
 Brenda E. Brickhouse, BR 4A-C
 Todd C. Liskey, MR 4G-C
 Anita E. Masters, LP 5U-C
 Khurshid K. Mehta, WT 6A-K
 EDMS, WT 11D-K

Mr. E. Patrick McIntyre, Jr.
 Executive Director
 Tennessee Historical Commission
 2941 Lebanon Road
 Nashville, Tennessee 37243-0442

Dear Mr. McIntyre:

**TENNESSEE VALLEY AUTHORITY (TVA), VOLUNTEER-EAST KNOX 161-kV
 TRANSMISSION LINE, KNOX COUNTY, TENNESSEE**

TVA proposes to construct a new transmission line (TL) that would begin at the existing Volunteer 500-kV substation and end at a proposed new East Knox substation in Knox County, Tennessee. Portions of the proposed TL route are parallel to existing and active TL routes, one portion is parallel to an existing but vacant right-of-way (ROW), and another portion will be a new ROW. TVA identified the area of potential effects (APE) as the 100-foot ROW for the approximately 13.0-mile-long proposed TL. The architectural APE was identified as a 1.0-mile-wide area linearly centered along the proposed TL, as well as any areas where the project would alter existing topography or vegetation in view of a historic resource.

TVA has previously conducted cultural resources investigations of portions of the APE. One portion of the APE was investigated in 2008 as part of the then-proposed Volunteer-Midway TL project, a 16.1-mile proposed new TL that has not yet been constructed. TVA contracted with TRC Environmental (TRC) to carry out a Phase I cultural resources survey of the APE for that project, within which much of the current APE is located. Based on TRC's findings, TVA determined that there was one archaeological site (40KN303) eligible for the National Register of Historic Places (NRHP) in the APE, and proposed measures that would avoid any adverse project effects to the site. TVA also determined that no NRHP-listed, -eligible, or -potentially eligible architectural resources are located within the project's APE. Your office agreed with these determinations and agreed that TVA's proposed avoidance measures for 40KN303 would avoid adverse effects to the site, by letter dated July 16, 2008 (see enclosed).

In 2011 TVA contracted with TRC for a Phase I cultural resources investigation of the proposed Dumplin Valley-Nixon Road TL, measuring one mile in length with a 100-ft ROW. The APE for that project overlaps a portion of the current APE near its southern terminus. Based on the findings of the study, TVA determined that there were no NRHP-eligible archaeological or architectural resources within that project's APE. Your office agreed by letter dated October 3, 2011 (see enclosed).

Mr. E. Patrick McIntyre, Jr.
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TVA recently contracted with TRC to carry out a Phase I cultural resources investigation of the portion of the APE, measuring 8.7 miles in total length, that has not been previously investigated. This remaining portion of the APE consists of five non-contiguous segments, which is a result of project re-routes that occurred after the Volunteer-Midway study was completed. Enclosed are two copies of the draft report titled *Phase I Cultural Resources Survey of the Proposed Volunteer-East Knox 161-kV Transmission Line, Knox County, Tennessee*, along with three CDs containing digital copies.

No previously recorded archaeological sites are located within the current portion of the APE. The study identified no archaeological sites in the current portion of the APE. TRC recommends that there are no NRHP-eligible archaeological sites in the current portion of the APE.

TRC identified 48 previously recorded architectural properties that are located within the current portion of the APE. Of these, five (KN-2387, -2389, -2403, -2616, and -2669) were determined ineligible for the NRHP by your office in 2008. Two (KN-2390 and -2404) have been destroyed. Twenty of these resources, which were recorded in 1985 by the Knoxville Metropolitan Planning Commission, have not been assessed for NRHP eligibility. The remaining 21 previously recorded historic architectural properties have been determined ineligible for the NRHP by TVA, and your office has agreed by letters dated July 16, 2008 and October 3, 2011 (enclosed).

The architectural survey identified sixteen previously unidentified architectural properties (designated HS-A through HS-P) in the APE. TRC recommends Strong Stock Farm (HS-P) eligible under Criteria A and C for its local significance in the areas of architecture and agriculture. TRC finds that, while a portion (21 acres, or 2.7%) of the Strong Stock Farm property would be within a visual line-of-sight to the proposed project, none of the contributing elements of the property would be within that line-of-sight due to distance and/or the screening effects of natural vegetation. Therefore the project's effect on Strong Stock Farm would not be adverse. TRC recommends the remaining 15 previously unidentified architectural properties ineligible for the NRHP.

TRC also re-evaluated 41 previously recorded architectural properties that fall within the APE. TRC found that five of these properties (KN-286, KN-2628, KN-2557, KN-2631, and HS-23) have been destroyed since they were first recorded, and nine (KN-2391, KN-2574, KN-2575, KN-2630, HS-1, HS-13, HS-14, HS-16, and HS-22) are located outside the visual line-of-sight to the proposed project. TRC recommends Rising Sun Church (KN-2564) eligible for the NRHP under Criterion C for its local significance in the area of architecture. TRC finds that the project would have a visual effect on KN-2564 but recommends that the effect would not be adverse. TRC recommends that the remaining previously recorded architectural properties are ineligible for the NRHP due to their lack of architectural distinction and loss of integrity caused by modern alterations and/or damage.

Mr. E. Patrick McIntyre, Jr.
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April 16, 2012

TVA has reviewed the enclosed report and agrees with the findings and recommendations of the authors. Pursuant to 36 CFR Part 800.4(d)(1), we are seeking your concurrence with TVA's determination that no historic properties would be adversely affected by the proposed undertaking.

Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding historic properties within the proposed project's APE that may be of religious and cultural significance and are eligible for the NRHP.

Should you have any questions or comments, please contact Richard Yarnell in Knoxville at wryarnel@tva.gov or (865) 632-3463.

Sincerely,



Clinton E. Jones
Senior Manager
Biological and Cultural Compliance
Environmental Permits and Compliance
WT 11A-K

Enclosures

WRY : SLY

cc (Enclosures):

Ms. Jennifer Barnett
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

April 17, 2012

To Those Listed:

TENNESSEE VALLEY AUTHORITY (TVA), VOLUNTEER-EAST KNOX 161-kV
TRANSMISSION LINE, KNOX COUNTY, TENNESSEE

TVA proposes to construct a new transmission line (TL) that would begin at the existing Volunteer 500-kV substation and end at a proposed new East Knox substation in Knox County, Tennessee. Portions of the proposed TL route are parallel to existing and active TL routes, one portion utilizes an existing but vacant right-of-way (ROW), and another portion will be located on a new ROW. TVA identified the area of potential effects (APE) as the 100-foot ROW for the approximately 13.4-mile-long proposed TL. The architectural APE was identified as a 1.0-mile-wide area linearly centered along the proposed TL, as well as any areas where the project would alter existing topography or vegetation in view of a historic resource.

TVA has previously conducted cultural resources investigations of portions of the APE. One portion of the APE was investigated in 2008 as part of the then-proposed Volunteer-Midway TL project, a 16.1-mile proposed new TL that has not yet been constructed. TVA contracted with TRC Environmental (TRC) to carry out a Phase I cultural resources survey of the APE for that project, within which much of the current APE is located. Based on TRC's findings, TVA determined that there was one archaeological site (40KN303) eligible for the National Register of Historic Places (NRHP) in the APE, and proposed measures that would avoid any adverse project effects to the site. TVA also determined that no NRHP-listed, -eligible, or -potentially eligible architectural resources are located within the project's APE. TVA consulted with your office on this investigation in June 2008 (please see enclosed letter).

In 2011 TVA contracted with TRC for a Phase I cultural resources investigation of the proposed Dumplin Valley-Nixon Road TL, measuring one mile in length with a 100-ft ROW. The APE for that project overlaps a portion of the current APE near its southern terminus. Based on the findings of the study, TVA determined that there were no NRHP-eligible archaeological or architectural resources within that project's APE. Again, TVA consulted with your office in October 2011 (please see enclosed letter).

TVA recently contracted with TRC to carry out a Phase I cultural resources investigation of the portion of the APE, measuring 8.7 miles in total length, that has not been previously investigated. This remaining portion of the APE consists of five non-contiguous segments, which is a result of project re-routes that occurred after the Volunteer-Midway study was completed.

To Those Listed.
Page 2
April 17, 2012

Please find a copy of the draft report titled *Phase I Cultural Resources Survey of the Proposed Volunteer-East Knox 161-kV Transmission Line, Knox County, Tennessee*, on-line at <https://trcnet.trcsolutions.com>. The report is listed as "TVA_Volunteer_EastKnox_Draft_revised-4-9-12.pdf."

No previously recorded archaeological sites are located within the current portion of the APE. The study identified no archaeological sites in the current portion of the APE. TRC recommends that there are no NRHP-eligible archaeological sites in the current portion of the APE.

TRC identified 48 previously recorded architectural properties that are located within the current portion of the APE. Of these, five (KN-2387, -2389, -2403, -2616, and -2669) were determined ineligible for the NRHP in 2008. Two (KN-2390 and -2404) have been destroyed. Twenty of these resources, which were recorded in 1985 by the Knoxville Metropolitan Planning Commission, have not been assessed for NRHP eligibility. The remaining 21 previously recorded historic architectural properties have been determined ineligible for listing in the NRHP.

The architectural survey identified sixteen previously unidentified architectural properties (designated HS-A through HS-P) in the APE. TRC recommends Strong Stock Farm (HS-P) eligible under Criteria A and C for its local significance in the areas of architecture and agriculture. TRC finds that, while a portion (21 acres, or 2.7%) of the Strong Stock Farm property would be within a visual line-of-sight to the proposed project, none of the contributing elements of the property would be within that line-of-sight due to distance and/or the screening effects of natural vegetation. Therefore the project's effect on Strong Stock Farm would not be adverse. TRC recommends the remaining 15 previously unidentified architectural properties ineligible for the NRHP.

TRC also re-evaluated 41 previously recorded architectural properties that fall within the APE. TRC found that five of these properties (KN-286, KN-2628, KN-2557, KN-2631, and HS-23) have been destroyed since they were first recorded, and nine (KN-2391, KN-2574, KN-2575, KN-2630, HS-1, HS-13, HS-14, HS-16, and HS-22) are located outside the visual line-of-sight to the proposed project. TRC recommends Rising Sun Church (KN-2564) eligible for the NRHP under Criterion C for its local significance in the area of architecture. TRC finds that the project would have a visual effect on KN-2564 but recommends that the effect would not be adverse. TRC recommends that the remaining previously recorded architectural properties are ineligible for the NRHP due to their lack of architectural distinction and loss of integrity caused by modern alterations and/or damage.

To Those Listed
Page 3
April 17, 2012

Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding historic properties within the proposed project's APE that may be of religious and cultural significance and are eligible for listing in the NRHP: Cherokee Nation, Eastern Band of Cherokee Indians, United Keetoowah Band of Cherokee Indians in Oklahoma, Muscogee (Creek) Nation of Oklahoma, Alabama-Coushatta Tribe of Texas, Alabama-Quassarte Tribal Town, Kialegee Tribal Town, Thlopthlocco Tribal Town, Seminole Tribe of Florida, Absentee Shawnee Tribe of Oklahoma, Eastern Shawnee Tribe of Oklahoma, and the Shawnee Tribe.

TVA has reviewed the referenced report and agrees with the findings and recommendations of the authors. By this letter, TVA is providing notification of these findings and is seeking your comments regarding this undertaking and any properties that may be of religious and cultural significance and may be eligible for the NRHP pursuant to 36CFR §§§ 800.2 (c)(2)(ii), 800.3 (f)(2), and 800.4 (a)(4)(b).

Please respond by May 18, 2012, if you have any comments on the proposed undertaking. If you have any questions, please contact me at (865) 632-6461 or by email at pbezzell@tva.gov.

Sincerely,



Patricia Bernard Ezzell
Tribal Liaison and Corporate Historian
Tennessee Valley Authority
WT 11D-K

Enclosures

**IDENTICAL LETTER AND ENCLOSURES SENT TO THE FOLLOWING LIST OF NAMES ON
April 17, 2012**

Dr. Richard Allen
Policy Analyst
Cherokee Nation
Post Office Box 948
Tahlequah, Oklahoma 74465

Ms. Augustine Asbury
Cultural Preservation Coordinator
Alabama Quassarte Tribal Town
Post Office Box 187
Wetumka, Oklahoma 74883

Dr. Paul N. Backhouse
Acting Tribal Historic Preservation Officer
Seminole Tribe of Florida
Tribal Historic Preservation Office
30290 Josie Billie Highway, PMB 1004
Clewiston, FL 33440

cc: Ms. Anne Mullins
Project Coordinator
Seminole Tribe of Florida
Tribal Historic Preservation Office
30290 Josie Billie Highway, PMB 1004
Clewiston, FL 33440

Mr. Elliot York
Archaeological Data Analyst
Seminole Tribe of Florida
Tribal Historic Preservation Office
30290 Josie Billie Highway, PMB 1004
Clewiston, FL 33440

Ms. Alison Swing
Seminole Tribe of Florida
Tribal Historic Preservation Office
30290 Josie Billie Highway, PMB 1004
Clewiston, FL 33440

Mr. Alfred Berryhill
Manager
Cultural Preservation Department
Muscogee (Creek) Nation
Post Office Box 580
Okmulgee, Oklahoma 74447

Volunteer-East Knox Bulk Transmission Project

cc: Mr. Emman Spain
Deputy Tribal Historic Preservation Officer
Cultural Preservation Department
Muscogee (Creek) Nation
Post Office Box 580
Okmulgee, Oklahoma 74447

Mr. Jeff Fife
Assistant to the Second Chief
Muscogee (Creek) Nation
P.O. Box 580
Okmulgee, Oklahoma 74447

Ms. Odette Freeman
Cultural Preservation Department
Muscogee (Creek) Nation
Post Office Box 580
Okmulgee, Oklahoma 74447

Mr. Bryant Celestine
Tribal Historic Preservation Officer
Alabama-Coushatta Tribe of Texas
571 State Park Rd. 56
Livingston, Texas 77351

Mr. Charles Coleman
NAGPRA Representative
Thlopthlocco Tribal Town
Route 1, Box 190-A
Weleetka, Oklahoma 74880

Ms. Robin DuShane
Cultural Preservation Director
Eastern Shawnee Tribe of Oklahoma
127 West Oneida
Seneca, Missouri 64865

Ms. Henryetta Ellis
Tribal Historic Preservation Officer
Absentee Shawnee Tribe of Oklahoma
2025 S. Gordon Cooper
Shawnee, Oklahoma 74801

Mr. Henry Harjo
Environmental Director
Kialegee Tribal Town
Post Office Box 332
Wetumka, Oklahoma 74883

Mr. Tyler Howe
Historic Preservation Specialist
Eastern Band of Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719

cc: Mr. Russell Townsend
Tribal Historic Preservation Officer
Eastern Band of Cherokee Indians
Post Office Box 455
Cherokee, North Carolina 28719

Mrs. Lisa C. LaRue-Baker
Acting Tribal Historic Preservation Officer
United Keetoowah Band
of Cherokee Indians in Oklahoma
Post Office Box 746
Tahlequah, Oklahoma 74464

Mr. Ron Sparkman
Chairman
Shawnee Tribe
Post Office Box 189
Miami, Oklahoma 74355

cc: Ms. Kim Jumper (w/Enclosures)
Tribal Historic Preservation Officer
Shawnee Tribe
Post Office Box 189
Miami, Oklahoma 74355

Chief Glenna J. Wallace
Eastern Shawnee Tribe of Oklahoma
127 West Oneida
Seneca, Missouri 64865



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

April 24, 2012

cc: Clint Jones, WT 11A-K
Todd Liskey, MR 4G-C
EDMS, WT 11D-K

Ms. Mary Jennings
Field Supervisor
U. S. Fish and Wildlife Service
446 Neal Street
Cookeville, Tennessee 38501

Dear Ms. Jennings:

REQUEST FOR BIOLOGICAL CONCURRENCE: CONSTRUCTION OF A 161kV (kilovolt) TRANSMISSION LINE, JOINT 161kV SWITCHING STATION, AND KUB 161kV SUBSTATION, KNOX COUNTY, TENNESSEE

Knoxville Utilities Board (KUB) has requested a new 161-kV delivery point to their new East Knox 161-kV substation. TVA will purchase the substation site and prepare the site for construction of a new joint TVA 161-kV Switching Station and KUB 161-kV Substation. Prep work for the switching and substations will consist of cut and fill for the site, access road, drainage pond, fencing and rock surface. The site is about 28.5 acres; after TVA has completed the prep work, TVA will sell approximately 18.5 acres to KUB for their 161-kV substation.

The new transmission line (TL) will begin at the existing Volunteer 500-kV Substation, located in northeast Knox County. A combination of expanded (parallel to existing) TVA right-of-way (ROW), entirely new ROW, and existing TVA ROW will be utilized for this new TL. The expanded TVA ROW (purple on enclosed maps) will parallel the east side of existing TVA ROW and require 87.5 feet in most areas. The new ROW (red on enclosed maps) as well as the existing Waterville-Arlington ROW (yellow on enclosed aerial maps, green on enclosed topo maps) will be 100 feet wide. Clearing along the ROW is currently scheduled to occur between May 30 and November 26, 2013.

A further component of the project involves an additional transmission line loop segment (orange on maps). This portion of the project is needed in order to provide more reliability to the Dumplin Valley – Nixon Road transmission line (TL). The loop line is slightly over one mile long and will begin at structure 216 of the Dumplin Valley - Nixon Road TL, routed north, crossing over some privately owned property, then Interstate 40 just west of the Midway Road interchange and finally cross over Development Corporation of Knox County (DCKC) property before terminating into the proposed East Knox substation. Clearing of the proposed ROW for the loop line currently is scheduled to occur between September 25 and October 1, 2014.

Access roads for the proposed project will be identified in August, 2012.

Ms. Mary Jennings
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Knox County, Tennessee, has historically supported a number of aquatic species and one terrestrial species that are listed as threatened or endangered under the Endangered Species Act. These include one mammal (gray bat), 12 mussels (dromedary pearlymussel, tan riffleshell, green blossom pearlymussel, tuberculed blossom pearlymussel, turgid blossom pearlymussel, shiny pigtoe pearlymussel, fine-rayed pigtoe, pink mucket, birdwing pearlymussel, orange-foot pimpleback, sheepnose, and Cumberland monkeyface), one snail (Anthony's river snail), and two fish (yellowfin madtom, or snail darter). One additional mammal (Indiana bat -endangered) has the potential to occur within Knox County based on historic range, proximity to known occurrence records, biological characteristics and/or physiographic characteristics. The section of the Holston River crossed by this line has been designated as a Non-essential Experimental Population area for 21 federally-listed mussel, snail and fish species. See Table 1 below for listing of species.

TVA has determined that construction of the Volunteer East Knox transmission line project would have no effect on gray bat, dromedary pearlymussel, tan riffleshell, green blossom pearlymussel, tuberculed blossom pearlymussel, turgid blossom pearlymussel, shiny pigtoe pearlymussel, fine-rayed pigtoe, pink mucket, birdwing pearlymussel, orange-foot pimpleback, sheepnose, Cumberland monkeyface, Anthony's river snail, yellowfin madtom, or snail darter, because these species are either represent historical records and the species are no longer present in affected areas, or if present in the project area, do not occur in areas potentially affected by construction, operation, or maintenance of this transmission line.

Use of appropriate Best Management Practices (BMPs) to minimize disturbance in streams or riparian areas crossed by this transmission line would further ensure that there is no potential to affect the NEP area in the Holston River, or individuals or populations of federally-listed aquatic species potentially occurring in areas downstream of transmission line crossings. Potentially suitable foraging habitat for gray bat is limited to the Holston River crossing, and the proposed actions would not impact this foraging habitat. No caves were identified within the project area during field investigations and proposed actions are not expected to directly or indirectly impact suitable winter hibernating habitat for gray bat.

Although the federally-listed endangered Indiana bat has not been documented in Knox County, recent (February 2012) draft survey guidance for Indiana bat released by the USFWS indicates that assessments should be conducted to determine the presence of potentially suitable habitat throughout the species range. This range includes Knox County. The closest Indiana bat collection records are in Grainger and Jefferson Counties, TN, and are associated with caves used for hibernation by the species. These caves are approximately 12 miles to the east of the project area.

TVA biologists conducted Indiana bat habitat suitability assessments within the proposed project area in August-September 2011 and January-February 2012. Because field surveys were conducted prior to receipt of the new survey guidelines, habitat assessments focused on presence of dead trees greater than 5 inches in diameter (rather than 3 inches in diameter per new guidelines) and with exfoliating bark were examined for suitable roost characteristics. Suitable live trees with exfoliating bark also were noted. Habitat bearing trees greater than 5

Ms. Mary Jennings
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inches in diameter is primarily limited to small, scattered woodland patches along the edges of fields, most of which have been recently disturbed and thus are composed of young trees and a dense understory. Potentially suitable summer roosting habitat was identified in a few isolated forest pockets along McNally Ridge where new ROW would begin, between Carter Mill Drive and Cooper Road, and on either side of Interstate 40 (See accompanying maps).

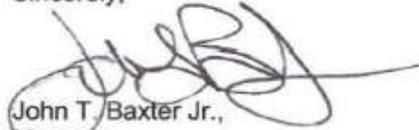
In general, natural habitat in the project area and across Knox County, TN, has been greatly impacted by both residential and agricultural development throughout the last century. The majority of forested areas have been previously cleared and remaining forest is highly fragmented. Most of this forested habitat is severely fragmented and heavily disturbed. Many of the forest stands are nearly linear and follow fencerows and property boundaries. Average size of overstory trees in the proposed ROW varies, but most of trees are less than 18" diameter at breast height. Many of these areas had been cleared in the recent past or were actively being grazed by cattle. The relatively small amount of mature forest in the project area occurs on upland ridges.

Several small patches of potentially suitable summer roosting habitat were identified within the project area, totaling approximately 6 acres when combined. This ranged from 1 - 2 suitable trees to 10 - 12 suitable trees in a given location. Given that these patches are isolated from contiguous forest, Indiana bat has not been documented in Knox County, the closest records of Indiana bat are winter records and are approximately 12 miles away, and ~1, 000,000 acres of available forested habitat are present in Knox County and adjacent counties, removal of these trees would have discountable effects on habitat availability for Indiana bats. TVA has determined that construction, operation, and maintenance activities on this transmission line are not likely to adversely affect Indiana bat.

Although it has been determined that removal of trees would have discountable effects on Indiana bat, if project schedule permits, TVA would aim to clear those sections of habitat identified as potentially suitable for summer roosting Indiana bat between November 15 and March 31.

TVA respectfully requests concurrence for these determinations.

Sincerely,



John T. Baxter Jr.,
Manager
Endangered Species Act Compliance
Environmental Permits and Compliance

HGL : SLY
Enclosures

Table 1. Terrestrial and aquatic species listed by the U.S. Fish and Wildlife Service (USFWS) under provisions of the Endangered Species Act for Knox County, Tennessee¹

Scientific Name	Common Name	Federal Status ³	Occurrence: Known (K); Potential (P)	Affected by Proposed Action
MAMMALS				
<i>Myotis grisescens</i>	Gray bat	E	K	No effect
<i>Myotis sodalis</i>	Indiana bat ²	E	P	Not likely to adversely affect
MUSSELS				
<i>Dromus dromas</i>	Dromedary pearlymussel	E	K	NO
<i>Epioblasma florentina walkeri</i>	Tan riffleshell ³	E	K	NO
<i>Epioblasma torulosa gubernaculum</i>	Green blossom pearlymussel ³	E	K	NO
<i>Epioblasma torulosa torulosa</i>	Tuberculed blossom pearlymussel ³	E	K	NO
<i>Epioblasma turgidula</i>	Turgid blossom pearlymussel	E	K	NO
<i>Fusconaia cor</i>	Shiny pigtoe pearlymussel	E	K	NO
<i>Fusconaia cuneolus</i>	Fine-rayed pigtoe	E	K	NO
<i>Lampsilis abrupta</i>	Pink mucket	E	K	NO
<i>Lemiox rimosus</i>	Birdwing pearlymussel ³	E	K	NO
<i>Plethobasus cooperianus</i>	Orange-foot pimpleback ³	E	K	NO
<i>Plethobasus cyphus</i>	Sheepnose ³	E	K	NO
<i>Quadrula intermedia</i>	Cumberland monkeyface ³	E	K	NO
SNAILS				
<i>Athearnia anthonyi</i>	Anthony's river snail ³	E	K	NO
FISH				
<i>Noturus flavipinnis</i>	Yellowfin madtom	T	K	NO
<i>Percina tanasi</i>	Snail darter	T	K	NO

¹Sources: Tennessee Valley Authority Regional Natural Heritage Database and Tennessee Ecological Services website, http://ecos.fws.gov/tess_public/countySearch?speciesByCountyReport.action?fips=47093, accessed April 13, 2012.

²This species has not been documented in Knox County, but has potential to occur based on historic range, proximity to known occurrence records, biological characteristics and/or physiographic characteristics.

³These records are not in listed on the Tennessee Ecological Services Website but occur in the TVA Natural Heritage Database

⁴E = endangered, T = Listed threatened

Indiana bat potential summer roosting habitat - Carter Mill Drive - Cooper Road



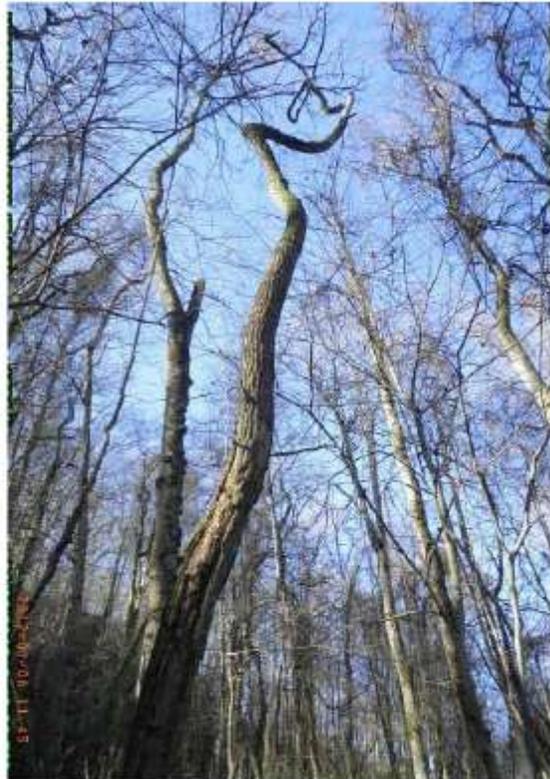
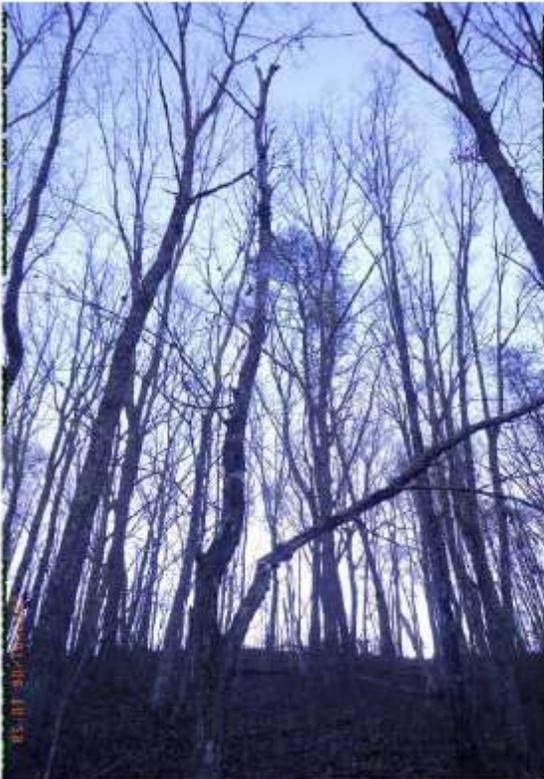


Indiana bat potential summer habitat - north and south of I-40



Indiana bat potential summer roosting habitat - McAnnally Ridge

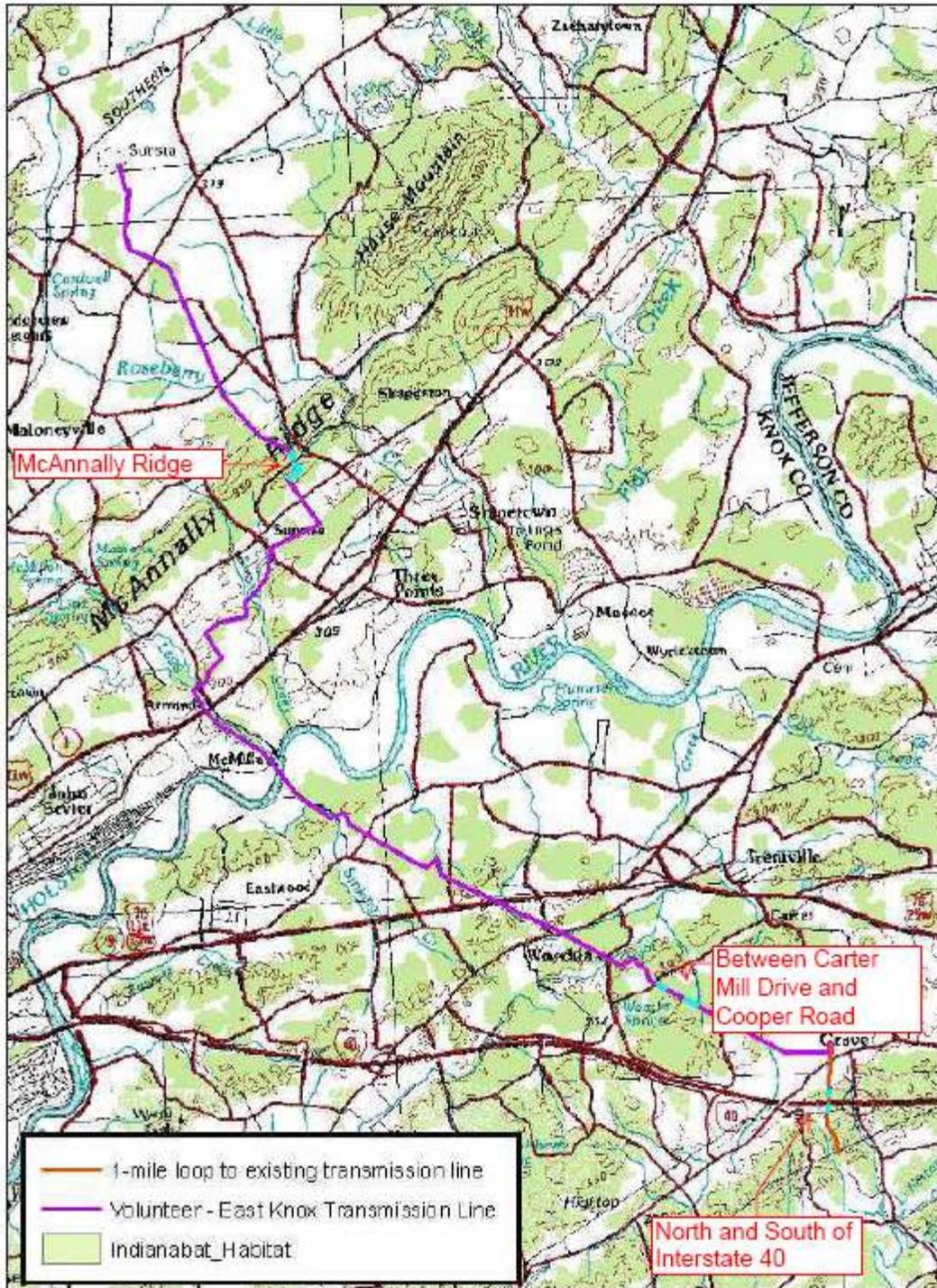




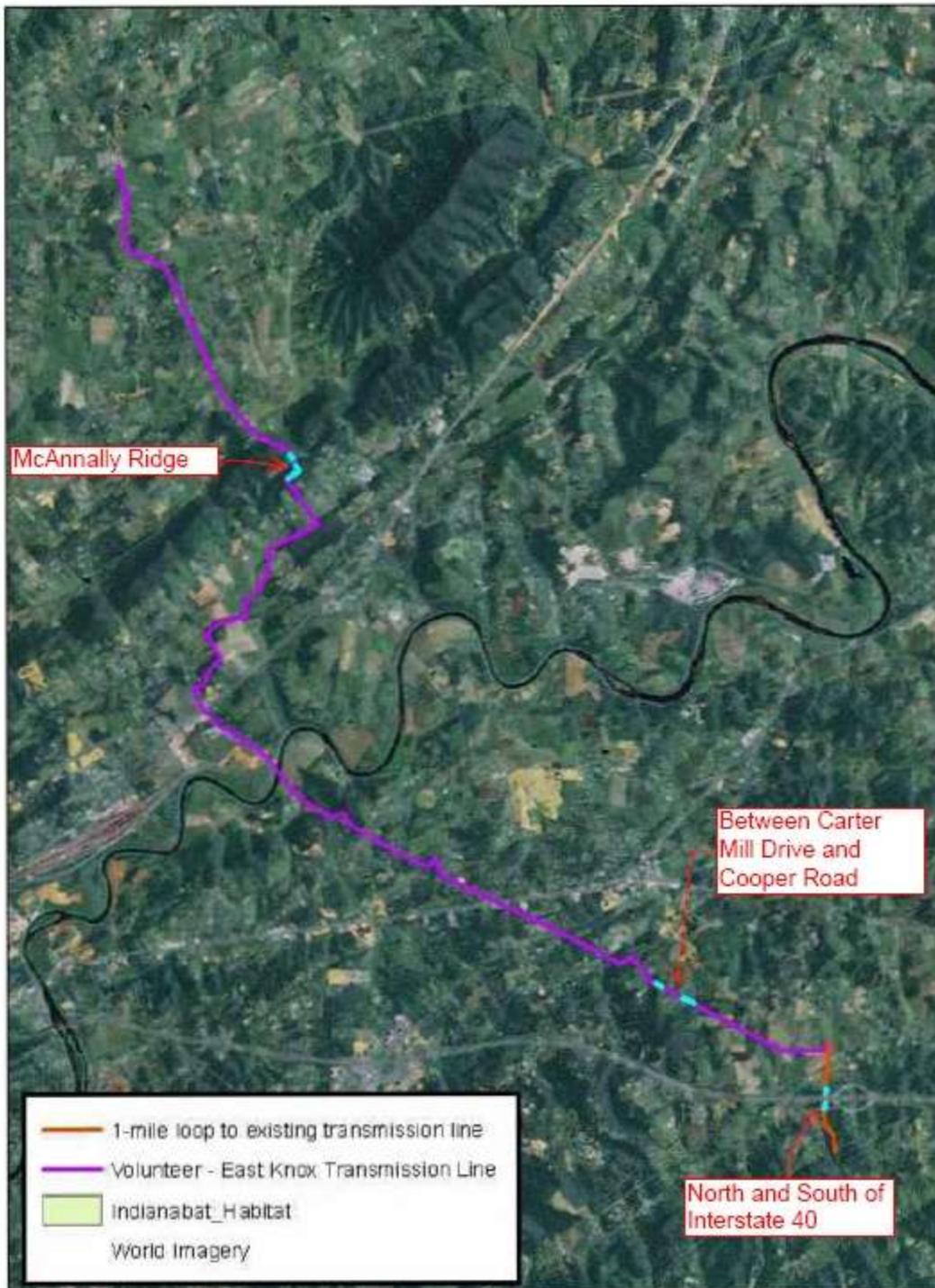
Indiana bat potential summer roosting habitat between Carter Mill Drive and Cooper Road.



Volunteer -East Knox Transmission Line Project with Indiana bat habitat (highlighted in blue)



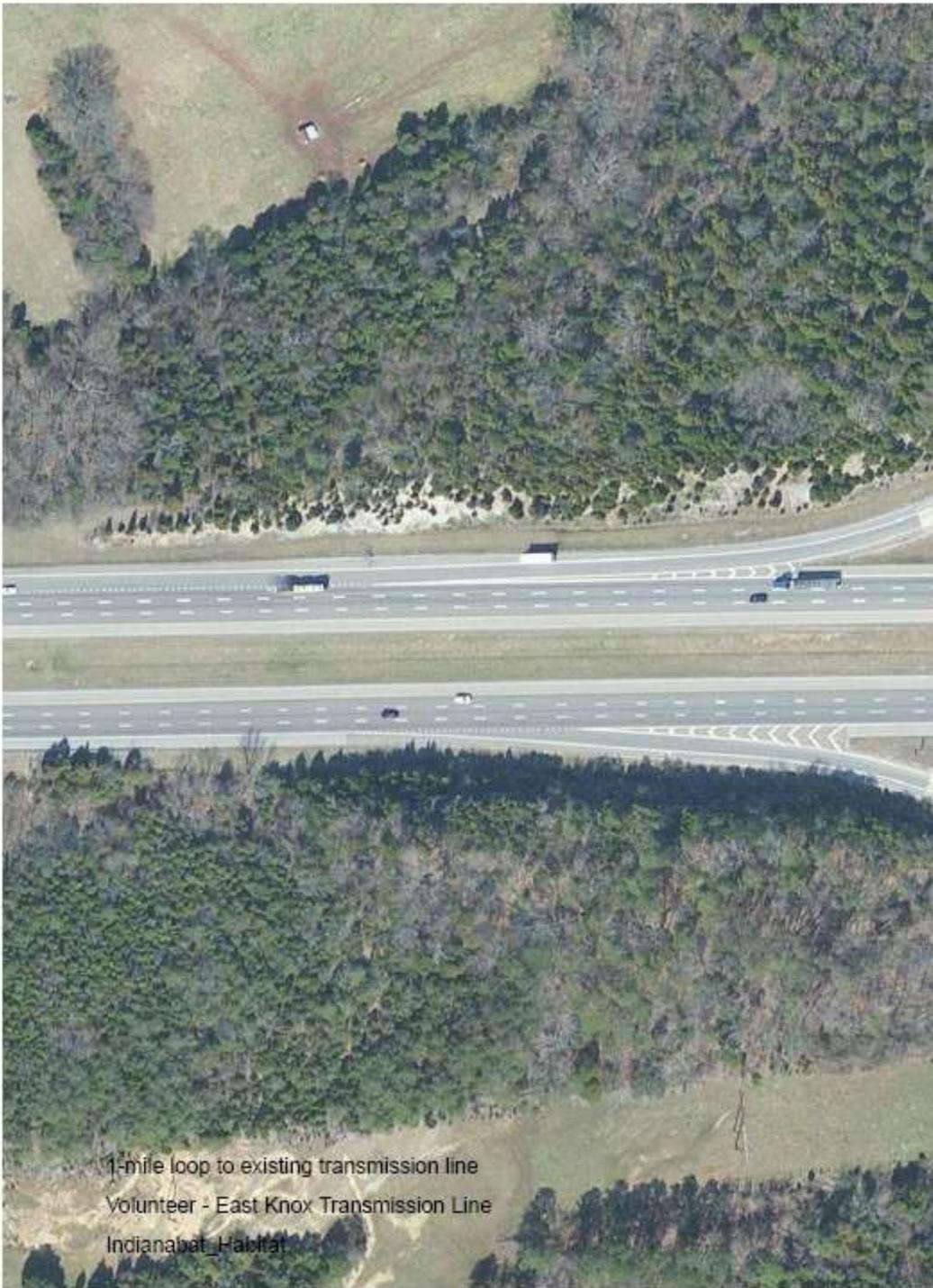
Volunteer-East Knox Transmission Line Project with Indiana bat habitat (highlighted in blue)



Indiana bat potential summer roosting habitat along and adjacent to McAnnally Ridge



Indiana bat potential summer roosting habitat north and south of Interstate 40





TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

April 27, 2012

Mr. Clinton E. Jones
Tennessee Valley Authority
400 W. Summit Hill Dr.
Knoxville, Tennessee, 37902-1499

RE: TVA, VOLUNTEER-EAST KNOX 161 KV LINE, UNINCORPORATED, KNOX COUNTY

Dear Mr. Jones:

In response to your request, received on Wednesday, April 18, 2012, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process.

Considering available information, we find that the project as currently proposed MAY ADVERSELY AFFECT PROPERTIES THAT ARE ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES. You should now begin immediate consultation with our office. Please direct questions and comments to joe garrison (615) 532-1550-103.

Sincerely,

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jyg -



Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902

June 8, 2012

Mr. E. Patrick McIntyre, Jr.
Executive Director
Tennessee Historical Commission
2941 Lebanon Road
Nashville, Tennessee 37243-0442

cc: Cynthia M. Anderson, LP 5D-C
Brenda E. Brickhouse, BR 4A-C
Todd C. Liskey, MR 4G-C
Anita E. Masters, LP 5U-C
Khurshid K. Mehta, WT 6A-K
EDMS, WT 11D-K

Dear Mr. McIntyre:

TENNESSEE VALLEY AUTHORITY (TVA), EAST KNOX 161-kV SUBSTATION, KNOX COUNTY, TENNESSEE

TVA proposes to construct a new East Knox 161-kV substation in Knox County, Tennessee. TVA identified the area of potential effects (APE) for archaeological resources as a 34.85 acre area within which the substation would be built. The architectural APE was identified as the area encompassed by a 0.5-mile radius surrounding the substation footprint, as well as any areas where the project would alter existing topography or vegetation in view of a historic resource.

No cultural resources investigations have been conducted within the APE previously. However, a portion of the APE was included within the architectural APE for a proposed Dumplin Valley-Nixon Road 161-kV transmission line (TL). Based on the findings of a Phase I cultural resources investigation undertaken in 2011 as section 106 compliance for that study, TVA determined that there are no historic properties within that project's APE. Your office agreed by letter dated October 3, 2011 (see enclosed).

TVA recently contracted with TRC Environmental Corporation (TRC) to carry out a Phase I cultural resources investigation of the APE. Enclosed are two copies of the draft report titled *Phase I Cultural Resources Survey of the East Knox Substation, Knox County, Tennessee-Draft Report*, along with three CDs containing digital copies.

TRC finds that no previously recorded archaeological sites are located within the current portion of the APE. The field study identified no archaeological sites in the current portion of the APE. TRC recommends that there are no archaeological sites in the archaeological APE.

TRC identified eight previously recorded architectural properties within the architectural APE. Three of these (HS-1, HS-2, and HS-3) were documented during TRC's survey of the Dumplin Valley-Nixon Road 161-kV TL APE. Based on the findings of that study, TVA determined those properties to be ineligible for listing in the National Register of Historic Places (NRHP) and your office agreed by letter dated October 3, 2011 (see enclosed). Five other properties in the APE (KN-2428, KN-2429, KN-2430, KN-2533, and KN-2534) were recorded by the Knoxville

Mr. E. Patrick McIntyre, Jr.
Page 2
June 8, 2012

Metropolitan Planning Commission in 1985, but the eligibilities of these for listing in the NRHP have not been assessed. TRC's historic architectural survey of the APE identified no previously unrecorded architectural resources.

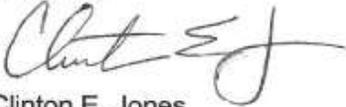
TRC investigated all eight previously recorded architectural properties as part of the current investigation. TRC found that the five properties recorded by the Knoxville Metropolitan Planning Commission are located outside the viewshed of the proposed substation. Based on their evaluation of the remaining three properties (HS-1, HS-2, and HS-3), TRC recommended that all three remain ineligible for the NRHP.

TVA has reviewed the enclosed report and agrees with the findings and recommendations of the authors. Pursuant to 36 CFR Part 800.4(d)(1), we are seeking your concurrence with TVA's determination that no historic properties are located within the APE.

Pursuant to 36 CFR Part 800.3(f)(2), TVA is consulting with federally recognized Indian tribes regarding historic properties within the proposed project's APE that may be of religious and cultural significance and are eligible for the NRHP.

If you have any questions or comments, please contact Richard Yarnell in Knoxville at wryarnel@tva.gov or (865) 632-3463.

Sincerely,



Clinton E. Jones
Senior Manager
Biological and Cultural Compliance
Environmental Permits and Compliance
WT 11A-K

WRY : SLY

Enclosures

cc (Enclosures):

Ms. Jennifer Barnett
Tennessee Division of Archaeology
1216 Foster Avenue, Cole Bldg. #3
Nashville, Tennessee 37210



TENNESSEE HISTORICAL COMMISSION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
2941 LEBANON ROAD
NASHVILLE, TN 37243-0442
(615) 532-1550

June 20, 2012

Mr. Clinton E. Jones
Tennessee Valley Authority
400 W. Summit Hill Dr.
Knoxville, Tennessee, 37902-1499

RE: TVA, KNOX 161 KV SUB-STATION, UNINCORPORATED, KNOX COUNTY

Dear Mr. Jones:

In response to your request, received on Tuesday, June 12, 2012, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process. You may find additional information concerning the Section 106 process and the Tennessee SHPO's documentation requirements at <http://www.tennessee.gov/environment/hist/federal/sect106.shtml>

Considering available information, we find that the project as currently proposed will NOT ADVERSELY AFFECT ANY PROPERTY THAT IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES. Therefore, this office has no objection to the implementation of this project. Please direct questions and comments to Joe Garrison (615) 532-1550-103. We appreciate your cooperation.

Sincerely,

E. Patrick McIntyre, Jr.
Executive Director and
State Historic Preservation Officer

EPM/jyg

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