Bryan J. Dolan
VP, Nuclear Plant Development

Duke Energy
EC09D/ 526 South Church Street
Charlotte, NC 28201-1006

Mailing Address:
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Charlotte, NC 28201-1006

704-382-0605

Bryan.Dolan@duke-energy.com

February 10, 2011

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

Subject: Duke Energy Carolinas, LLC
William States Lee III Nuclear Station - Docket Nos. 52-018 and 52-019
AP1000 Combined License Application for the
William States Lee III Nuclear Station Units 1 and 2
Response to Request for Additional Information
(ER RAI 135)
Ltr# WLG2011.02-03

Reference: Letter from Sarah Lopas (NRC) to Bryan Dolan (Duke Energy), Request for Additional Information Regarding the Environmental Review of the Combined License Application for William States Lee III Nuclear Station, Units 1 and 2, dated June 22, 2010 (ML101370398)

This letter provides supplemental information for Duke Energy's response to the Nuclear Regulatory Commission's request for additional information (RAI) included in the referenced letter.

RAI 135 Supplement, Cultural Resources

The response to the NRC information request described in the referenced letter is addressed in a separate enclosure, which also identifies associated changes to the Combined License Application for the Lee Nuclear Station, when appropriate.

If you have any questions or need any additional information, please contact Peter S. Hastings, Nuclear Plant Development Licensing Manager, at 980-373-7820.

Bryan J. Dolan
Vice President
Nuclear Plant Development

D093
NRO

Enclosure:

1) Response to ER RAI 135 Supplement, Cultural Resources

AFFIDAVIT OF BRYAN J. DOLAN

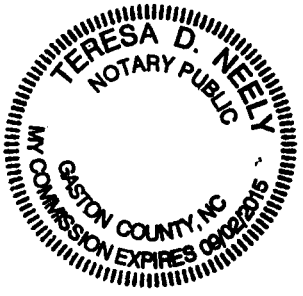
Bryan J. Dolan, being duly sworn, states that he is Vice President, Nuclear Plant Development, Duke Energy Carolinas, LLC, that he is authorized on the part of said Company to sign and file with the U. S. Nuclear Regulatory Commission this supplement to the combined license application for the William States Lee III Nuclear Station and that all the matter and facts set forth herein are true and correct to the best of his knowledge.

Bryan J. Dolan

Subscribed and sworn to me on February 10, 2011

Teresa D. Neely
Notary Public

SEAL



xc (w/o enclosure):

Loren Plisco, Deputy Regional Administrator, Region II
Robert Schaaf, Branch Chief, DSER

xc (w/ enclosure):

Sarah Lopas, Project Manager, DSER
Mickie Chamness, PNNL

Enclosure 1
Duke Letter Dated: February 9, 2011

Lee Nuclear Station Response to Request for Additional Information (RAI)

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 135 Supplement, Cultural Resources

NRC RAI:

Provide all correspondence submitted by Duke Energy to the South Carolina SHPO and Tribes regarding past and future survey designs, results of surveys and corresponding tribal and SHPO responses, including telephone records of verbal responses associated with the Phase 1 or Phase 2 surveys for Pond C, the utilities project survey, and the transmission line surveys.

Provide clarification on why only one tribe was provided an opportunity to comment on the scope of work for the cultural resources survey for Pond C.

Duke Energy Response:

Correspondence notifying the various tribes of the development of Make-Up Pond C was submitted to NRC as part of the ER Supplement on Make-Up Pond C (WLG2009.09-05, ML092810255). As noted in the tribal correspondence in Appendix B to the Environmental Report, only the Eastern Band Cherokee Indians expressed any desire to be involved with the review of study plans and reports. Additionally, the Seminole Tribe of Florida requested a copy of the Make-Up Pond C cultural resource report. Subsequent correspondence with the tribes was provided to NRC in response to RAI 135. Correspondence between Duke Energy and the SC SHPO was also provided to NRC in the RAI 135 response.

An additional cultural resource survey of a newly proposed water pipeline route not included within the previous Area of Potential Effect (APE) was performed on September 29-30, 2010. Results of the survey were provided as an addendum to the *Cultural Resources Survey of the Proposed London Creek Reservoir (Make-Up Pond C) and Water Pipeline* to the Tribal Historic Preservation Office of the Eastern Band of the Cherokees and the SC State Historic Preservation Office. The addendum and associated correspondence is provided in Attachments 135S-01 and 135S-02.

Associated Revisions to the Lee Nuclear Station Combined License Application:

None

Attachments:

Attachment 135S-01 Correspondence with the Tribal Historic Preservation Office of the Eastern Band of the Cherokees

Attachment 135S-02 Correspondence with the SC State Historic Preservation Office

Enclosure 1
Duke Letter Dated: February 9, 2011

Attachment 135S-01

Correspondence with the Tribal Historic Preservation Office

Of the Eastern Band of the Cherokees

Duke Energy®

526 S. Church Street
Charlotte, NC 28202

Mailing Address:
EC09D/ P.O. Box 1006
Charlotte, NC 28201-1006

February 3, 2011

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

Subject: William S. Lee III Nuclear Station
Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline
Cherokee County, South Carolina
Addendum: Archaeological Survey of the Proposed Water Pipeline Realignment

Dear Mr. Howe,

I am enclosing two copies of the *Archaeological Survey of the Proposed Water Pipeline Realignment,* as an addendum to the *Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline* report for your review and comment. I am also providing a copy to Ms. Caroline Wilson, South Carolina State Historic Preservation Office (SHPO) for her review.

As discussed in the attached addendum report, the investigation consisted of systematic and judgmental shovel testing within a new proposed pipeline corridor not included in the previous pipeline report. The additional study determined the proposed construction of the subsurface water pipeline will not affect any historic properties or the McKown Family Cemetery and no further cultural resource management is recommended for the pipeline.

If you have any questions please call me at 704-382-4669.

Robert Wylie
Environmental Project Manager

Enclosure: *Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline*
Cherokee County, South Carolina
Addendum: Archaeological Survey of the Proposed Water Pipeline Realignment

xc: Ralph Bailey (Brockington Associates/wo enclosure)
WL 4000.35-05 (w enclosure)

Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline
Cherokee County, South Carolina

Addendum: Archaeological Survey of the Proposed Water Pipeline Realignment

Prepared for:

Duke Energy
Charlotte, North Carolina

Prepared by:

Brian Falls
Archaeologist

and

Ralph Bailey
Principal Investigator

January 2011

Brockington and Associates, Inc.
Atlanta • Charleston • Elizabethtown • Pensacola • Savannah

Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline
Cherokee County, South Carolina

Addendum: Archaeological Survey of the Proposed Water Pipeline Realignment

Brian Falls and Ralph Bailey, RPA
Brockington and Associates, Inc.
January 2011

Introduction

Duke Energy Carolinas, LLC, plans to construct a 2.1-mile-long subsurface water pipeline that will connect the proposed Make-up Pond C with existing Pond B at the proposed William S. Lee III Nuclear Station (LNS). Duke Energy Carolinas, LLC, has plans for a newly proposed water pipeline route not included within previous Area of Potential Effect (APE) surveyed by Fletcher et al. (2009). The realignment consists of a 1,800-foot long and 150-foot wide corridor running just north of old pipeline route emptying at northern tip of Pond B. Figure 1 shows the location of the original pipeline APE and the realigned portion of the pipeline.

Field Investigations

On September 29-30, 2010, Brockington and Associates, Inc. conducted an archaeological survey of the newly proposed water pipeline route location. There are no recorded historic properties near the APE. The McKown Family Cemetery is approximately 193 feet south of the APE.

The field investigations consisted of shovel testing and visual investigation within the 1800-foot long and 150-foot wide corridor of newly proposed pipeline route. Investigators also performed a visual inspection of approximately 193 feet between the pipeline corridor and the McKown Family Cemetery. Figure 2 shows the location of the shovel tests and visual inspection within the realigned APE.

The eastern portion of the newly proposed pipeline lies just south of an existing gravel road. This portion of the APE has been disturbed by the development of a gravel road and Pond B and has experienced extensive grading and gravel filling episodes. The vegetation in the eastern portion includes manicured grass along the gravel road running just north of Pond B. In the western portion of the pipeline corridor, the centerline runs just to the north of a dirt road. Vegetation in this portion of the APE consists of mixed woods. Figure 3 displays views of the eastern and western portions of the survey corridor.

Investigators excavated shovel tests at 100-foot (30-meter) intervals along two parallel transects spaced 100 feet apart, 50 feet to either side of the centerline of the new corridor route. All shovel tests were one foot in diameter, with all soils screened through ¼-inch hardware cloth. Notes concerning each shovel test and the terrain encountered were recorded in field notebooks.

Investigators excavated a total of 20 shovel tests within the newly proposed pipeline corridor. Investigators excavated four shovel tests along the eastern portion of the corridor west of the gate. The four shovel tests excavated consisted of a 0-3 cm bs manicured grass, grayish brown humic layer over a compact dense, impenetrable gravel fill. These four tests give evidence to the extensive disturbance found within eastern portion of corridor. The remainder of this area was visually inspected and determined to have been graded in a similar manner.

Investigators excavated 16 shovel tests along the western portion of the corridor. Soils consisted of a 0-30 cm bs strong brown sandy clay underlain by a 30-40 cm bs strong brown clay with rock found throughout tests. Investigators recovered no artifacts from shovel tests or on the surface within the proposed corridor.

Investigators visually inspected the area between the APE and McKown Family Cemetery. The cemetery lies on a ridge nose and has been fenced off by Duke Energy. The cemetery is accessible by dirt road and may be visited by descendents. The cemetery fence is 193 feet south of the APE. We did not see any indication that there may be unmarked graves outside the fence. Construction of the pipeline, which will be below ground, will not disturb the cemetery directly and it will also not visually alter the setting of the cemetery.

Results and Management Recommendations

Brockington and Associates, Inc., conducted investigations of the newly proposed water pipeline route that will connect Make-up Pond C to Pond B. These investigations consisted of systematic and judgmental shovel testing within the proposed pipeline corridor. The proposed construction of the subsurface water pipeline will not affect any historic properties or the McKown Family Cemetery. No further cultural resource management is recommended for the pipeline.

REFERENCE CITED

Fletcher, Joshua N., C. Philips, Jr., K. Lanphear, E. Salo, and R. Bailey
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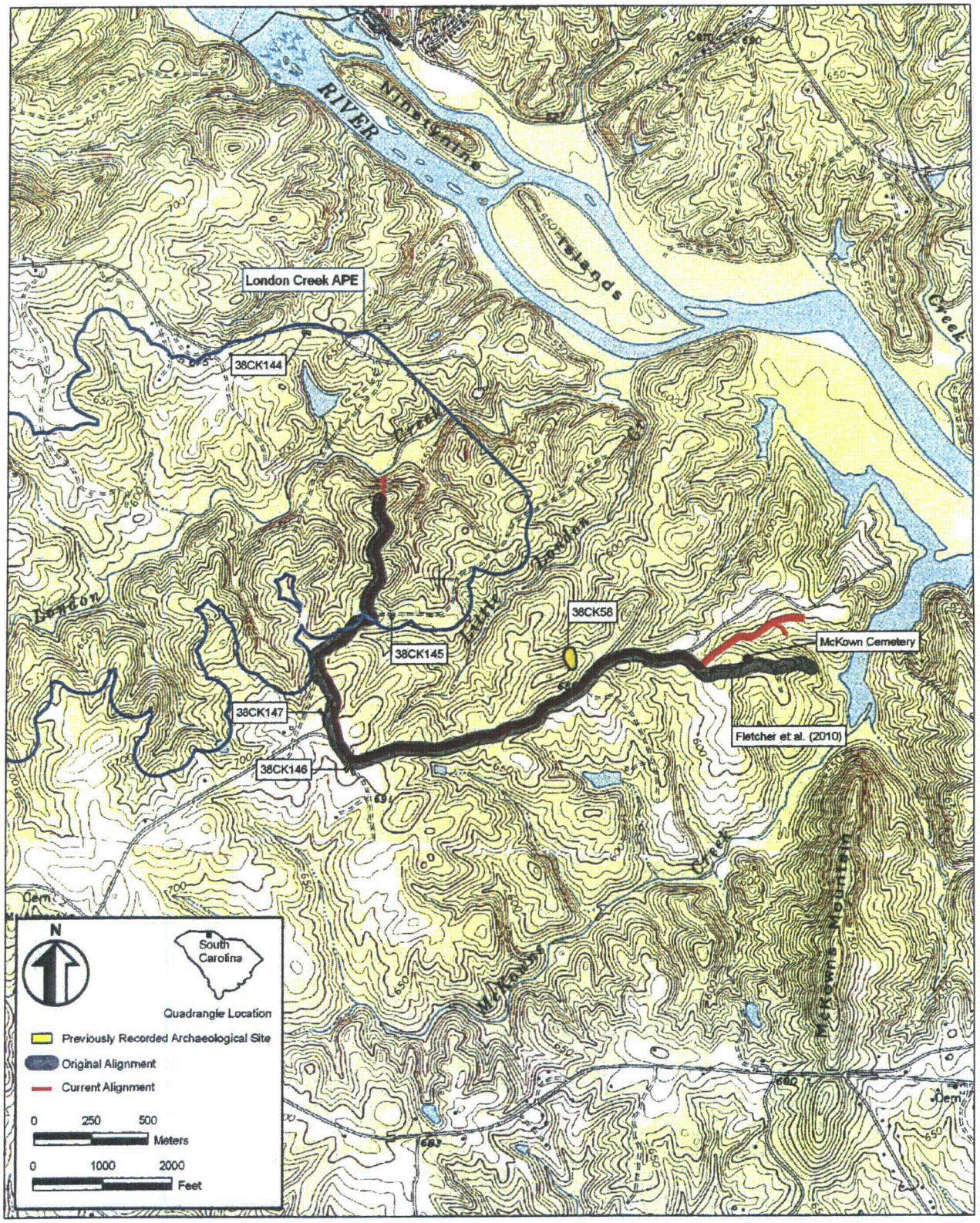

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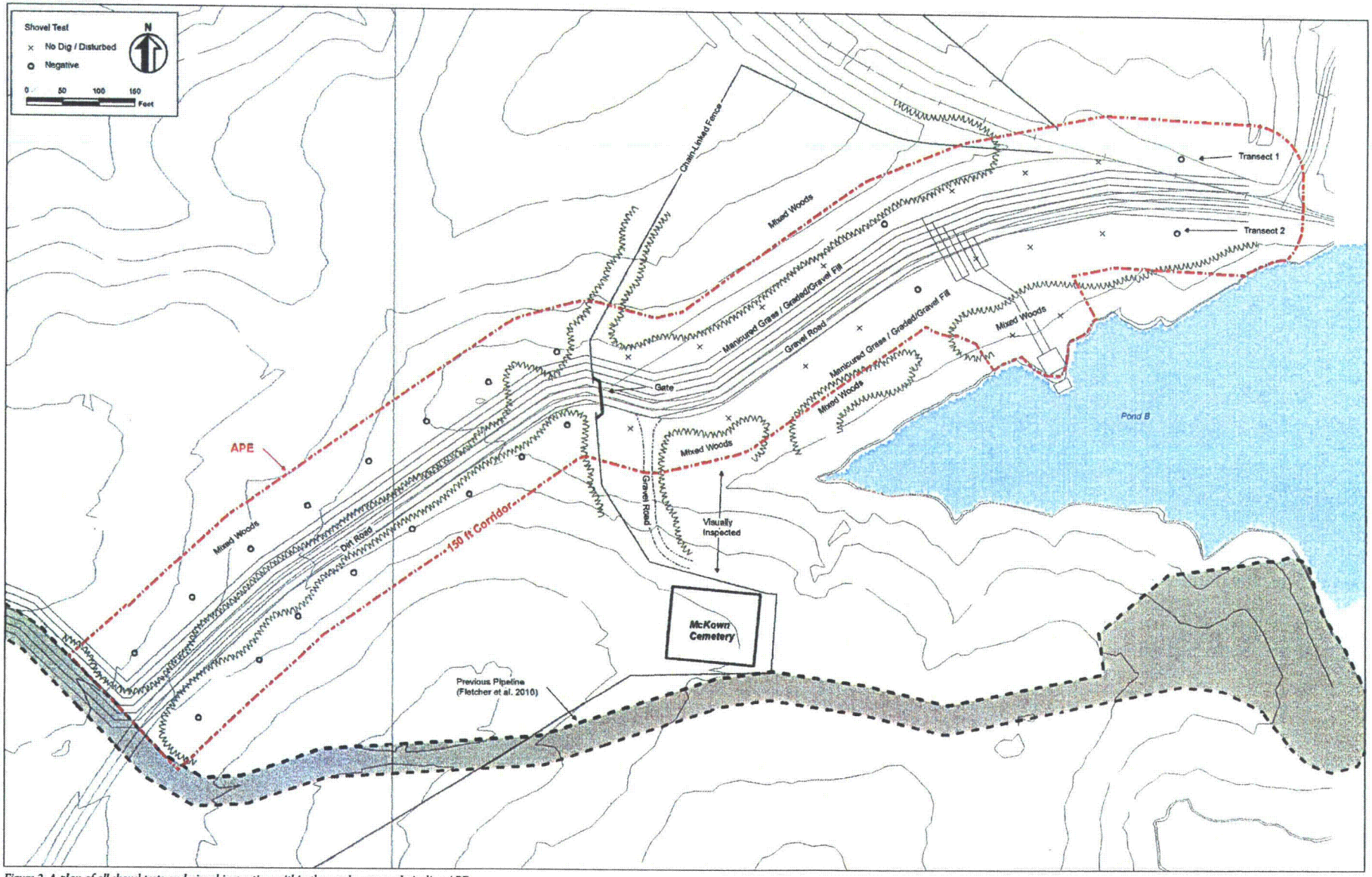

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Enclosure 1
Duke Letter Dated: February 9, 2011

Attachment 135S-02

Correspondence with the SC State Historic Preservation Office

526 S. Church Street
Charlotte, NC 28202

Mailing Address:
EC09D/ P.O. Box 1006
Charlotte, NC 28201-1006

February 3, 2011

Ms. Caroline Wilson
State Historic Preservation Office
South Carolina Department of Archives and History
8301 Parkland Road
Columbia, South Carolina 29223-4905

Subject: William S. Lee III Nuclear Station
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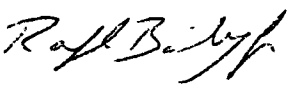

Ralph Bailey
Principal Investigator

January 2011

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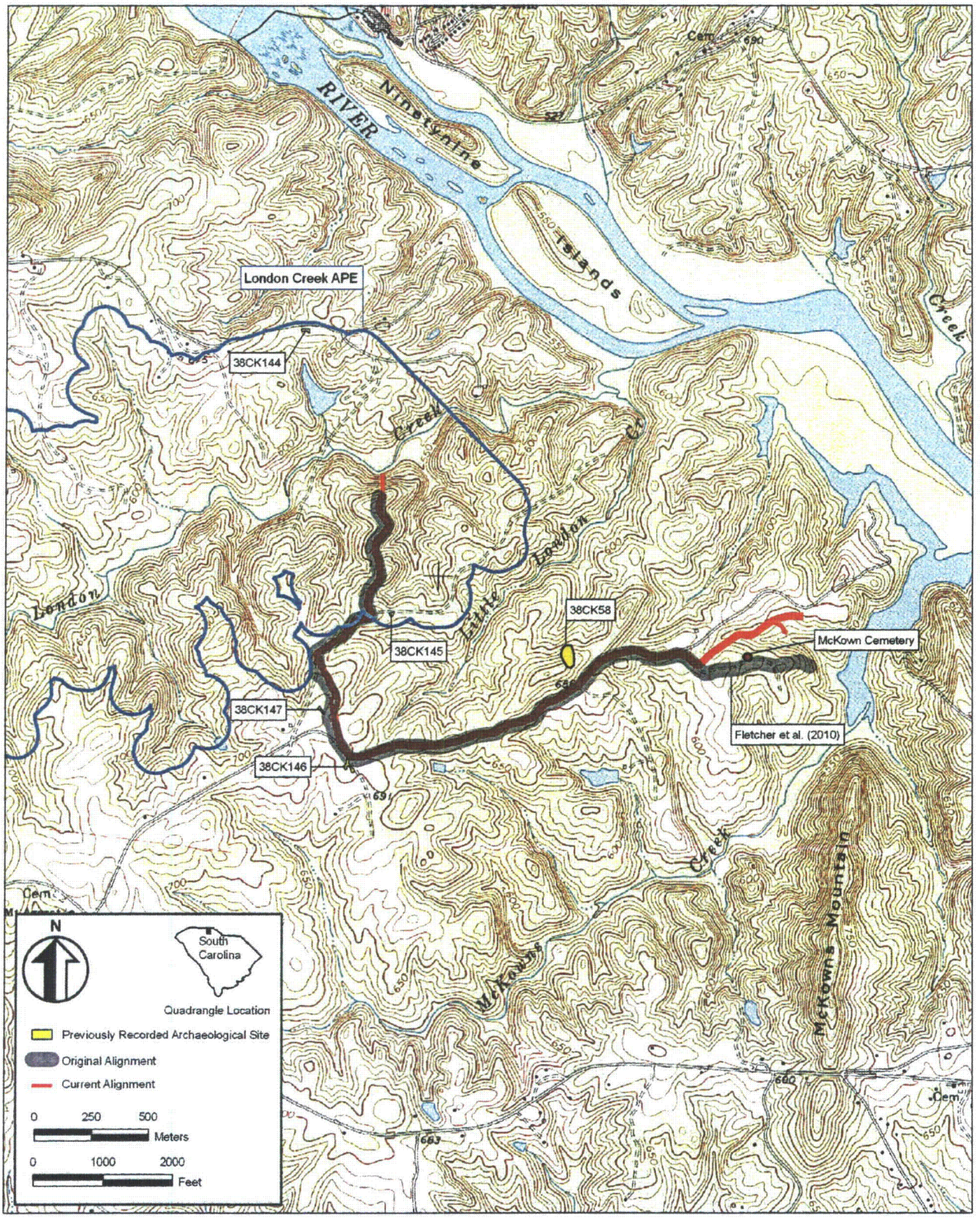

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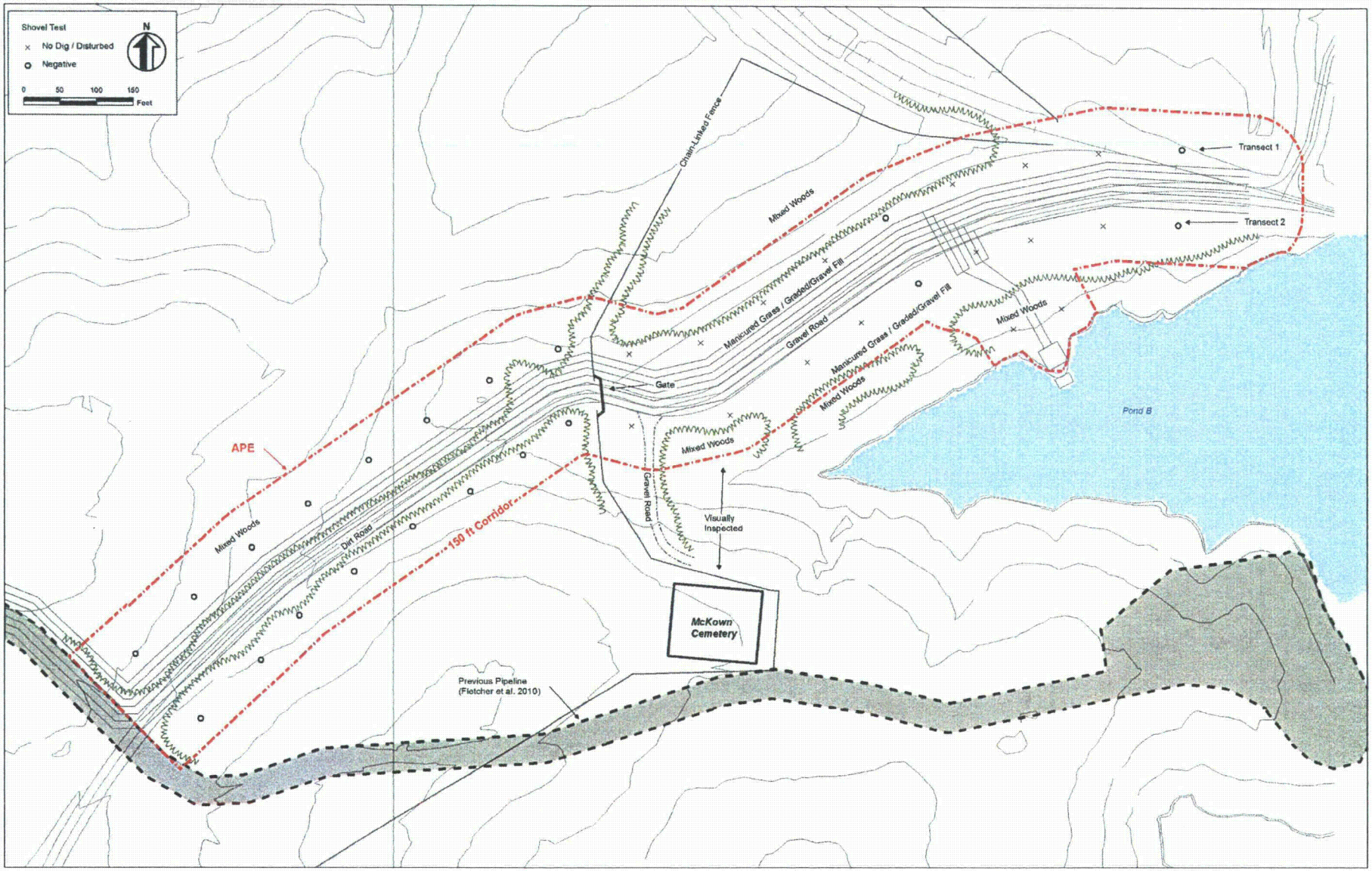

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