

**From:** "Snead, Paul" <paul.snead@pgnmail.com>  
**To:** <maryann.parkhurst@pnl.gov>, <RLE@nrc.gov>  
**Date:** Tue, Feb 8, 2005 11:03 AM  
**Subject:** Brunswick Site Audit Follow-Up Item #8

With regard to the Brunswick Environmental Report Site Audit Follow-Up List, response to Item # 8 is as follows:

8. Ensure that the induced shock calculation properly bounds the newly identified Whiteville to Fayetteville 230kV scope. [provide to Van Ramsdale] [Responsible individual: Phil Moore, TtNUS]

The Brunswick transmission line analysis examined 335 miles of transmission line and modeled two candidate locations on each of 8 transmission lines for induced-current shock. The candidate locations were selected based on expectation of providing bounding conditions on the line. There was an additional 54 miles of line beyond Whiteville (to Fayetteville) that was not analyzed, because the plant now connects to the grid at Whiteville instead of Fayetteville. According to NEPA, the analysis is supposed to be pertinent to the Proposed Action, and the line beyond Whiteville has no relationship to the Proposed Action.

Given that 335 miles were evaluated and found to be well below the industry standard limit of 5 milliamperes, it is highly likely that the un-analyzed 54 miles are also below the regulatory limit. All the lines were built to the same standard. In addition, all the Robinson and Shearon Harris lines were analyzed and found to be well below the limit. Given that the Progress Energy (CP&L) engineering standards are consistent across all these lines, it is difficult to imagine a situation in which the un-analyzed 54 miles would be an issue.

In summary, we believe the existing analysis is adequate and that modeling the additional segments of line beyond the Whiteville substation would serve no useful purpose.

If you have further questions or need additional information, please let us know.

- > Paul Snead
- > NGG Environmental Coordinator
- > Nuclear Engineering and Services
- > Progress Energy
- > paul.snead@pgnmail.com
- > (919) 546-2836
- >
- >

**CC:** "Kozyra, Jan" <jan.kozyra@pgnmail.com>, "Moore, Philip" <MooreP@ttnus.com>

**Mail Envelope Properties** (4208E2DA.F2A : 5 : 48938)

**Subject:** Brunswick Site Audit Follow-Up Item #8  
**Creation Date:** Tue, Feb 8, 2005 11:03 AM  
**From:** "Snead, Paul" <[paul.snead@pgnmail.com](mailto:paul.snead@pgnmail.com)>

**Created By:** [paul.snead@pgnmail.com](mailto:paul.snead@pgnmail.com)

**Recipients**

nrc.gov  
 OWGWPO02.HQGWDO01  
 RLE (Richard Emch)

ttnus.com  
 MooreP CC (Philip Moore)

pgnmail.com  
 jan.kozyra CC (Jan Kozyra)

pnl.gov  
 maryann.parkhurst

**Post Office**

OWGWPO02.HQGWDO01

**Route**

nrc.gov  
 ttnus.com  
 pgnmail.com  
 pnl.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1908	Tuesday, February 8, 2005 11:03 AM
TEXT.htm	2835	
Mime.822	1	

**Options**

**Expiration Date:** None  
**Priority:** Standard  
**Reply Requested:** No  
**Return Notification:** None

**Concealed Subject:** No  
**Security:** Standard