

**J. A. "Buzz" Miller**  
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U.S. Nuclear Regulatory Commission  
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Southern Nuclear Operating Company  
Vogtle Early Site Permit Application  
Submittal of Revised MACCS2 Code Analysis Results

Ladies and Gentlemen:

In the Environmental Report (ER) associated with the Vogtle Early Site Permit (ESP) Application, Southern Nuclear Operating Company (SNC) utilized the U.S. Nuclear Regulatory Commission (NRC) approved MELCOR Accident Consequence Code System (MACCS2) computer code to support severe accident evaluations. Output from the MACCS2 model was used to develop Section 7.2 of the Vogtle ESP application ER, including ER Table 7.2-1. During verbal discussions at a recent industry meeting with NRC and their contractors responsible for severe accident analysis, SNC was requested to provide additional information not included in Section 7.2 of the current ER. Specifically, SNC was requested to provide MACCS2 output for:

1. (Individual Risk) - The risk of prompt fatalities to an average individual residing within one mile of the plant boundary from postulated reactor accidents;
2. (Societal Risk) - The cancer fatality risk to populations residing near (within 10 miles) of the facility from postulated reactor accidents.

After additional discussions with NRC staff and management, SNC has agreed to provide the requested information to support the ER Severe Accident analyses. SNC's contractor, Tetra-Tech NUS, has rerun the MACCS2 model with the modifications necessary to produce the requested information. The model results are:

Individual Risk	2.6 E-12 prompt cancer fatalities/year
Societal Risk	6.4 E-13 latent cancer fatalities/year/person

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Please contact T. C Moorer at (205) 992-5807 or J. T. Davis at (205) 992-7692 if you have questions or require additional information.

Mr. J. A. (Buzz) Miller states he is a Senior Vice President of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

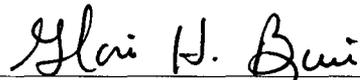
Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY



Joseph A. (Buzz) Miller

Sworn to and subscribed before me this 4 day of June, 2007

  
Notary Public

My commission expires: 05/06/08

JAM/BJS/dmw

cc: Southern Nuclear Operating Company

Mr. J. B. Beasley, Jr., President and CEO  
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations  
Mr. T. E. Tynan, Vice President - Vogtle  
Mr. D. M. Lloyd, Vogtle Deployment Director  
Mr. C. R. Pierce, Vogtle Development Licensing Manager  
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Nuclear Regulatory Commission

Mr. R. W. Borchardt, Director of Office of Nuclear Regulation  
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Mr. D. B. Matthews, Director of New Reactors  
Ms. S. M. Coffin, AP1000 Manager of New Reactors  
Mr. C. J. Araguas, Project Manager of New Reactors  
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Mr. M. W. Price, Chief Operating Officer

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Mr. D. Cope, President and Chief Executive Officer

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Ms. K. K. Patterson, Project Manager