From: "Williams, Dana M." <X2DANAWI@southernco.com>
To: "William Travers" <WDT@nrc.gov>,"Christian Araguas" <CJA2@nrc.gov>,"Brent Clayton" <HBC@nrc.gov>,"David Matthews" <DBM@nrc.gov>,"Mark Notich" <mdn@nrc.gov>,<"rwb@nrc.gov".NRGWIA01.NRGWDO01@nrc.gov>,<gjm1@rnc.gov>
Date: 6/5/2007 8:58:44 AM
Subject: SNC Letter AR-07-1156 transmitting VEGP Submittal of Revised MACCS2 Code Analysis Results

> An electronic copy of Southern Nuclear's letter, AR-07-1156, dated June 4,
> 2007 is attached for your review. In addition, a hard copy has been
> transmitted to the NRC Document Control desk via FedEx.
>
> <<AR-07-1156_Rev MACCS2 Submittal - Final.pdf>>
>
> Thank you,
>
> Dana Williams
> Southern Nuclear Operating Company
> Nuclear Development
> P 205.992.5934
> F 205.992.5296
>
>

Hearing Identifier: Vogtle_Public
Email Number: 419

Mail Envelope Properties (468A5738.HQGWDO01.TWGWPO04.200.200000A.1.DB063.1)

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Creation Date: 6/5/2007 8:58:44 AM
From: "Williams, Dana M." <X2DANAWI@southernco.com>

Created By: X2DANAWI@southernco.com

Recipients
"William Travers" <WDT@nrc.gov>
"Christian Araguas" <CJA2@nrc.gov>
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Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard

J. A. "Buzz" Miller
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SOUTHERN COMPANY
Energy to Serve Your World℠

JUN 04 2007

Docket No.: 52-011

AR-07-1156

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

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

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 subscripted 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
Document Services RTYPE: AR01
File AR.01.01.06

Nuclear Regulatory Commission
Mr. R. W. Borchardt, Director of Office of Nuclear Regulation
Mr. W. D. Travers, Region II Administrator
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
Mr. H. B. Clayton, Branch Chief – Environmental Technical Support
Mr. M. D. Notich, Environmental Project Manager
Mr. G. J. McCoy, Senior Resident Inspector of VEGP

Georgia Power Company
Mr. O. C. Harper, Vice President, Resource Planning and Nuclear Development

Oglethorpe Power Corporation
Mr. M. W. Price, Chief Operating Officer

Municipal Electric Authority of Georgia
Mr. C. B. Manning, Senior Vice President and Chief Operating Officer

Dalton Utilities
Mr. D. Cope, President and Chief Executive Officer

Tetra Tech NUS, Inc.
Ms. K. K. Patterson, Project Manager