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U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Vogtle Electric Generating Plant Units 1 and 2
Changes to Emergency Plan and ERDS Data Point Library

Ladies and Gentlemen:

In accordance with 10 CFR 50.4 and 10 CFR 50, Appendix E, Section V, Southern Nuclear Operating Company (SNC) hereby submits Revision 65 to the Vogtle Units 1 and 2 Emergency Plan, effective August 15, 2015. This revision incorporates changes associated with plant upgrades to the meteorological monitoring system implemented on July 18, 2015. As a result of these plant upgrades, SNC is also submitting changes to the Vogtle Unit 1 Emergency Response Data System (ERDS) data point library in accordance with 10 CFR 50 Appendix E, Section VI Item 3.

SNC has performed an analysis, pursuant to 10 CFR 50.54(q), demonstrating that the changes do not reduce the effectiveness of the plan and the plan, as changed, continues to meet the requirements of 10 CFR 50, Appendix E and the planning standards of 10 CFR 50.47(b). SNC submits the following summary of its analysis:

SNC has implemented design changes and modifications to upgrade the meteorological tower and instruments in order to enhance reliability and personnel safety. The new instruments are more robust, reliable, and accurate than the previous outdated instruments, and replacement parts are more readily available. One new tower, with primary and secondary (back-up) instruments at both the 10 meter and 60 meter levels, replaces two aging and degraded towers. The new tower provides for improved safety for employees.

No ERDS software or hardware modifications were made; however, the data input system has changed. New communication equipment transmits instrumentation data via a new fiber optic system with primary inputs transmitted to the Unit 1 integrated plant computer (IPC) and secondary inputs transmitted to the Unit 2 IPC. This system replaces an outdated microwave system that

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transmitted only to the Unit 1 IPC. Lastly, the modification includes a new shelter with upgraded workstations and electronics for data acquisition.

These changes to the Vogtle Units 1 and 2 emergency plan upgrade and enhance the ability to monitor meteorological data, provide greater diversity of data communications, and improve the reliability of the structures, systems, and instruments. Therefore, the changes to the Vogtle Units 1 and 2 emergency plan do not reduce SNC's capability to perform any emergency planning functions in the event of an emergency.

This letter contains no NRC commitments. If you have any questions, please contact Ken McElroy at (205) 992-7369.

Respectfully submitted,



C. R. Pierce
Regulatory Affairs Director

Enclosure:

1. Vogtle Electric Generating Plant Units 1 and 2 Emergency Plan Revision 65 August 2015. (DVD)
2. Marked-up Changes to the Vogtle Unit 1 ERDS Data Point Library

cc: Southern Nuclear Operating Company
Mr. S. E. Kuczynski, Chairman, President & CEO
Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer
Mr. D. R. Madison, Vice President- Fleet Operations
Mr. B. K. Taber, Vice President- Vogtle 1 & 2
Mr. M. D. Meier, Vice President- Regulatory Affairs
Mr. R. L. Mansfield, Emergency Preparedness Director
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U.S. Nuclear Regulatory Commission

Mr. V. M. McCree, Regional Administrator
Mr. L. M. Cain, Senior Resident Inspector- Vogtle 1 & 2
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Director, Division of Spent Fuel Management

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Mr. J. H. Turner, Director- Environmental Protection Division

Enclosure 1

Vogtle Electric Generating Plant Units 1 and 2
Emergency Plan
Revision 65 August 2015

Enclosure 2

Vogtle Electric Generating Plant Units 1 and 2
Software Requirements Specification
Emergency Response Data System (ERDS)
Marked-Up Changes to the ERDS Data Point Library

Chapter 13 – Emergency Response Data System (ERDS)

Date	: 01/02/92 07/18/15
Reactor Unit	: VO1
Data Feeder	: N/A
NRC ERDS Parameter	: WIND SPEED
Point ID	: S6170
Plant Spec. Point	: PRIMARY MET TOWER 10 METER WIND SPEED
Generic/Cond.	: WIND SPEED AT THE REACTOR SITE
Analog/Digital	: A
Engr. Units/Dig	: MPH
Engr. Units	: 0.0 to 100.0 MPH 0.0 to 112.0 MPH
Minimum Instr.	: 0.0
Maximum Instr.	: 100.0 112.0
Zero Point	: N/A
Reference Point	: N/A
Proc or Sens.	: S P
Number of Sensors	: N/A 2
How Processed	: N/A - THIS IS A DIRECT SENSOR INPUT SELECTED INPUT - SEE SYSTEM DESCRIPTION
Sensor Locations	: 10 METERS ON THE PRIMARY MET TOWER
Alarm/Trip Setpoints	: NONE
NI Power Cut Off	: N/A
NI Power Turn On	: N/A
Instrument Failure	: N/A
Temp. Comp.	: N
Level Reference	: N/A

Unique System

Measures the wind speed at the primary meteorological monitoring station at the 10 meter level.

Two redundant instruments are located on the meteorological tower at the 10 meter level. Point S6471 is the Primary direct sensor input and Point S6171 is the Secondary (Back-up) direct sensor input. Point S6170 selects the direct sensor input from S6471 (Primary sensor) if its quality value is Good; else the direct sensor input is from S6171 (Secondary sensor) selected.

Chapter 13 – Emergency Response Data System (ERDS)

Date	: 07/05/94 07/18/15
Reactor Unit	: VO1
Data Feeder	: N/A
NRC ERDS Parameter	: WIND DIR
Point ID	: UY6571
Plant Spec. Point	: PRIMARY MET TOWER 10 METER WIND DIR
Generic/Cond.	: WIND DIR AT THE REACTOR SITE
Analog/Digital	: A
Engr. Units/Dig	: DEG
Engr. Units	: 0.0 to 360.0 DEG
Minimum Instr.	: 0.0
Maximum Instr.	: 360.0
Zero Point	: N/A
Reference Point	: N/A
Proc or Sens.	: P
Number of Sensors	: 1 2
How Processed	: CONVERTED DIRECTION - SEE SYSTEM DESCRIPTION SELECTED INPUT - SEE SYSTEM DESCRIPTION
Sensor Locations	: 10 METERS ON THE PRIMARY MET TOWER
Alarm/Trip Setpoints	: NONE
NI Power Cut Off	: N/A
NI Power Turn On	: N/A
Instrument Failure	: N/A
Temp. Comp.	: N
Level Reference	: N/A

Unique System

~~Y6171 measures the wind direction at the primary meteorological monitoring station at the 10 meter level. Point Y6171 is a direct sensor input which ranges from 0 to 540 degrees. UY6571 is the converted value of Y6171 within a range of 0 to 360 degrees. 0 Degrees represents wind direction from the North.~~

Two redundant wind direction instruments are located on the meteorological tower at the 10 meter level. Point Y6472 measures the Primary direct sensor input and Point Y6172 measures the Secondary (Back-up) direct sensor input. Point UY6571 selects the direct sensor input from Y6472 (Primary sensor) if its quality value is Good; else the direct sensor input from Y6172 (Secondary sensor) is selected. 0 Degrees represents wind direction from the North.

Chapter 13 – Emergency Response Data System (ERDS)

Date : ~~01/02/92~~ 07/18/15
Reactor Unit : VO1
Data Feeder : N/A
NRC ERDS Parameter : STAB CLASS
Point ID : T6174
Plant Spec. Point : PRIMARY MET TOWER 60-10 METER DELTA TEMP
Generic/Cond. : AIR STABILITY AT REACTOR SITE
Analog/Digital : A
Engr. Units/Dig : DEGF
Engr. Units : ~~-3.2 TO 20.0 DEGF~~ -10.0 to 20.0 DEGF
Minimum Instr. : ~~-3.2~~ -10.0
Maximum Instr. : 20.0
Zero Point : N/A
Reference Point : N/A
Proc or Sens. : ~~S~~ P
Number of Sensors : ~~N/A~~ 2
How Processed : ~~N/A - THIS IS A DIRECT SENSOR INPUT~~ SELECTED INPUT - SEE SYSTEM DESCRIPTION
Sensor Locations : PRIMARY MET TOWER
Alarm/Trip Setpoints : NONE
NI Power Cut Off : N/A
NI Power Turn On : N/A
Instrument Failure : N/A
Temp. Comp. : N
Level Reference : N/A

Unique System

Uses the 60 meter and 10 meter temperature inputs to calculate a delta temperature at the primary meteorological monitoring station. 60-10 meter delta T provides an indication of atmospheric stability class (Pasquill Category) as follows:

Pasquill Category	Stability Class	60-10 M Delta T DEGF
A	Extremely Unstable	DT < -1.71
B	Moderately Unstable	-1.71 < DT < -1.53
C	Slightly Unstable	-1.53 < DT < -1.35
D	Neutral	-1.35 < DT < -0.45
E	Slightly Stable	-0.45 < DT < +1.35
F	Moderately Stable	+1.35 < DT < +3.60
G	Extremely Stable	+3.60 < DT

Two redundant 60 meter and 10 meter temperature inputs are used to calculate two delta temperature values at the primary meteorological monitoring station. Point T6479 measures the Primary direct sensor input and Point T6179 measures the Secondary (Back-up) direct sensor input. Point T6174 selects the direct sensor input from T6479 (Primary sensor) if its quality value is Good; else the direct sensor input from T6179 (Secondary sensor) is selected.