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50-425

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

**VOGTLE ELECTRIC GENERATING PLANT  
EMERGENCY RESPONSE DATA SYSTEM (ERDS)  
DATA POINT LIBRARY MODIFICATIONS**

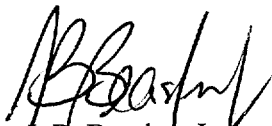
Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50, Appendix E, Section VI, Item 3a, Southern Nuclear Operating Company is submitting changes to the Vogtle Electric Generating Plant Unit 1 and Unit 2 Emergency Response Data System (ERDS) data point library. The changes were completed on March 16, 2001.

The data points S6170 (Primary MET Tower 10 Meter Wind Speed) and T6174 (Primary MET Tower 60-10 Meter Delta Temperature) were revised to reflect the actual low-limit capabilities of the instruments involved.

Please contact this office if you have any questions regarding this submittal, or contact Mr. C. E. Boone, Emergency Planning Coordinator at (205) 992-6635.

Sincerely,



J. B. Beasley, Jr.

JBB/CEB

AD24

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Enclosures:

1. ERDS data point library mark-up pages (4)
2. Revised ERDS data point library pages (4)

cc: Southern Nuclear Operating Company  
Mr. J. T. Gasser  
Mr. M. Sheibani  
SNC Document Management

U. S. Nuclear Regulatory Commission  
Mr. L. A. Reyes, Regional Administrator  
Mr. R. R. Assa, Senior Project Manager, NRR  
Mr. John Zeiler, Senior Resident Inspector, Vogtle

## **ENCLOSURE 1**

ERDS data point library mark-up pages

Emergency Response Data System (ERDS)  
Data Point Library – VEGP Unit 1

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**Date** : ~~01-02-92~~ **3-16-01**  
**Reactor Unit** : VOI  
**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~~ **0.4 to 100.0 MPH**  
**Minimum Instr.** : ~~0.0~~ **0.4**  
**Maximum Instr.** : 100.0  
**Zero Point** : N/A  
**Reference Point** : N/A  
**Proc or Sens.** : S  
**Number of Sensors** : N/A  
**How Processed** : N/A - THIS IS A DIRECT SENSOR INPUT  
**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.

Emergency Response Data System (ERDS)  
Data Point Library – VEGP Unit 1

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**Date** : ~~01-02-92~~ **3-16-01**  
**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** : ~~-5.0 to 10.0 DEGF~~ **-3.2 to 10.0 DEGF**  
**Minimum Instr.** : ~~-5.0~~ **-3.2**  
**Maximum Instr.** : 10.0  
**Zero Point** : N/A  
**Reference Point** : N/A  
**Proc or Sens.** : S  
**Number of Sensors** : N/A  
**How Processed** : N/A - THIS IS A DIRECT SENSOR INPUT  
**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           |

Emergency Response Data System (ERDS)  
Data Point Library – VEGP Unit 2

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**Date** : ~~01/02/92~~ **3-16-01**  
**Reactor Unit** : VO2  
**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~~ **0.4 to 100.0 MPH**  
**Minimum Instr.** : ~~0.0~~ **0.4**  
**Maximum Instr.** : 100.0  
**Zero Point** : N/A  
**Reference Point** : N/A  
**Proc or Sens.** : S  
**Number of Sensors** : N/A  
**How Processed** : N/A - THIS IS A DIRECT SENSOR INPUT  
**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. This input is obtained from the Unit 1 Integrated Plant Computer system via datalink.

Emergency Response Data System (ERDS)  
Data Point Library – VEGP Unit 2

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Date : ~~01/02/92~~ 3-16-01  
Reactor Unit : VO2  
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 : ~~-5.0 to 10.0 DEGF~~ -3.2 to 10.0 DEGF  
Minimum Instr. : ~~-5.0~~ -3.2  
Maximum Instr. : 10.0  
Zero Point : N/A  
Reference Point : N/A  
Proc or Sens. : S  
Number of Sensors : N/A  
How Processed : N/A - THIS IS A DIRECT SENSOR INPUT  
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    | $+3.60 < DT$         |

This input is obtained from the Unit 1 Integrated Plant Computer system via datalink.

## **ENCLOSURE 2**

Revised ERDS data point library pages



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|                             |   |
|-----------------------------|---|
| <b>Date</b>                 | : 03/16/01                              |
| <b>Reactor Unit</b>         | : VO1                                   |
| <b>Data Feeder</b>          | : N/A                                   |
| <b>NRC ERDS Parameter</b>   | : WIND SPEED                            |
| <b>Point ID</b>             | : S6170                                 |
| <b>Plant Spec. Point</b>    | : PRIMARY MET TOWER 10 METER WIND SPEED |
| <b>Generic/Cond.</b>        | : WIND SPEED AT THE REACTOR SITE        |
| <b>Analog/Digital</b>       | : A                                     |
| <b>Engr. Units/Dig</b>      | : MPH                                   |
| <b>Engr. Units</b>          | : 0.4 to 100.0 MPH                      |
| <b>Minimum Instr.</b>       | : 0.4                                   |
| <b>Maximum Instr.</b>       | : 100.0                                 |
| <b>Zero Point</b>           | : N/A                                   |
| <b>Reference Point</b>      | : N/A                                   |
| <b>Proc or Sens.</b>        | : S                                     |
| <b>Number of Sensors</b>    | : N/A                                   |
| <b>How Processed</b>        | : N/A - THIS IS A DIRECT SENSOR INPUT   |
| <b>Sensor Locations</b>     | : 10 METERS ON THE PRIMARY MET TOWER    |
| <b>Alarm/Trip Setpoints</b> | : NONE                                  |
| <b>NI Power Cut Off</b>     | : N/A                                   |
| <b>NI Power Turn On</b>     | : N/A                                   |
| <b>Instrument Failure</b>   | : N/A                                   |
| <b>Temp. Comp.</b>          | : N                                     |
| <b>Level Reference</b>      | : N/A                                   |

**Unique System**

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

**Date** : 03/16/01  
**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 10.0 DEGF  
**Minimum Instr.** : -3.2  
**Maximum Instr.** : 10.0  
**Zero Point** : N/A  
**Reference Point** : N/A  
**Proc or Sens.** : S  
**Number of Sensors** : N/A  
**How Processed** : N/A - THIS IS A DIRECT SENSOR INPUT  
**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    | $+3.60 < DT$         |

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|                             |   |
|-----------------------------|---|
| <b>Date</b>                 | : 03/16/01                              |
| <b>Reactor Unit</b>         | : VO2                                   |
| <b>Data Feeder</b>          | : N/A                                   |
| <b>NRC ERDS Parameter</b>   | : WIND SPEED                            |
| <b>Point ID</b>             | : S6170                                 |
| <b>Plant Spec. Point</b>    | : PRIMARY MET TOWER 10 METER WIND SPEED |
| <b>Generic/Cond.</b>        | : WIND SPEED AT THE REACTOR SITE        |
| <b>Analog/Digital</b>       | : A                                     |
| <b>Engr. Units/Dig</b>      | : MPH                                   |
| <b>Engr. Units</b>          | : 0.4 to 100.0 MPH                      |
| <b>Minimum Instr.</b>       | : 0.4                                   |
| <b>Maximum Instr.</b>       | : 100.0                                 |
| <b>Zero Point</b>           | : N/A                                   |
| <b>Reference Point</b>      | : N/A                                   |
| <b>Proc or Sens.</b>        | : S                                     |
| <b>Number of Sensors</b>    | : N/A                                   |
| <b>How Processed</b>        | : N/A - THIS IS A DIRECT SENSOR INPUT   |
| <b>Sensor Locations</b>     | : 10 METERS ON THE PRIMARY MET TOWER    |
| <b>Alarm/Trip Setpoints</b> | : NONE                                  |
| <b>NI Power Cut Off</b>     | : N/A                                   |
| <b>NI Power Turn On</b>     | : N/A                                   |
| <b>Instrument Failure</b>   | : N/A                                   |
| <b>Temp. Comp.</b>          | : N                                     |
| <b>Level Reference</b>      | : N/A                                   |

**Unique System**

Measures the wind speed at the primary meteorological monitoring station at the 10 meter level. This input is obtained from the Unit 1 Integrated Plant Computer system via datalink.

**Date** : 03/16/01  
**Reactor Unit** : VO2  
**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 10.0 DEGF  
**Minimum Instr.** : -3.2  
**Maximum Instr.** : 10.0  
**Zero Point** : N/A  
**Reference Point** : N/A  
**Proc or Sens.** : S  
**Number of Sensors** : N/A  
**How Processed** : N/A - THIS IS A DIRECT SENSOR INPUT  
**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    | $+3.60 < DT$         |

This input is obtained from the Unit 1 Integrated Plant Computer system via datalink.