

February 5, 2001

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Stop P1-137
Washington, DC 20555-0001

ULNRC-4365

Gentlemen:



**EMERGENCY PREPAREDNESS
RADIOLOGICAL EMERGENCY RESPONSE PLAN
CALLAWAY PLANT, DOCKET NUMBER 50-483
UNION ELECTRIC CO.**

Ref: 1) RERP Revision 023
2) RERP Change Notice 00-006

Enclosed is one copy of Change Notice 00-008 to Revision 023 of the Callaway Plant Radiological Emergency Response Plan (RERP), Attachment 1.

During Change Notice 00-006 an editorial error occurred in placing footnote symbols in EAL 1C item 2 and EAL1D item 2. The error was corrected by use of separate symbols for the two footnotes associated with these EALS. For consistency, the new footnote was added to EAL 1B item 2. Copies of the affected page of the original and revised EALS are attached for ease of understanding.

This Change Notice does not decrease the effectiveness of emergency preparedness for the Callaway Plant. The RERP continues to meet the standards of 10CFR50.47(b) and the requirements of 10CFR50.54(q).

Sincerely,

A handwritten signature in cursive script that reads "Blosser".

John D. Blosser
Manager, Operations Support

JDB/alr
Enclosure

A045

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**Table 4-1
EMERGENCY ACTION LEVELS**

**Group 1 ABNORMAL RADIATION EVENTS
Offsite Events**

UNUSUAL EVENT	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
<p>A. Any Unplanned Release of Radioactivity to the Environment That Exceeds 2 Times the Radiological Effluent Control Limits in the ODCM, (APA-ZZ-01003) for ≥60 minutes. MODES: At All Times</p>	<p>B. Any Unplanned Release of Radioactivity to the Environment That Exceeds 200 Times the Radiological Effluent Control Limits in the ODCM, (APA-ZZ-01003) for ≥15 minutes. MODES: At All Times</p>	<p>C. EAB Dose Resulting From an Actual or Imminent Release of Gaseous Radioactivity Exceeds 100 mrem TEDE or 500 mrem CDE Thyroid for the Actual or Projected Duration of the Release. MODES: At All Times</p>	<p>D. EAB Dose Resulting From an Actual or Imminent Release of Gaseous Radioactivity Exceeds 1000 mrem TEDE or 5000 mrem CDE Thyroid for the Actual or Projected Duration of the Release. MODES: At All Times</p>
<p>Indicators 1. <u>All</u> of the following: a. A valid alarm and reading on <u>any</u> of the following effluent monitors: HB-RE-18 GT-RE-21B GH-RE-10B b. The valid reading is 2 times the Hi Hi alarm setpoint value. c. The release cannot be terminated within 60 minutes of the alarm actuation.</p> <p><u>OR</u> 2. <u>Both</u> of the following: a. Confirmed sample analysis indicates that a release exceeding 2 times the applicable values of the ODCM (APA-ZZ-01003), has occurred. b. The release cannot be terminated within 60 minutes.</p>	<p>Indicators 1. <u>All</u> of the following: a. A valid alarm and reading on <u>any</u> of the following effluent monitors: HB-RE-18 GT-RE-21B GH-RE-10B b. The valid reading is 200 times the Hi Hi alarm setpoint value. c. The release cannot be terminated within 15 minutes of the alarm actuation.</p> <p><u>OR</u> @2. <u>Both</u> of the following: CN 00-002 a. A Valid reading on <u>any</u> of the following monitors: AB-RE-0111 >27 mrem/hr AB-RE-0112 >27 mrem/hr AB-RE-0113 >27 mrem/hr AB-RE-0114 >27 mrem/hr FC-RE-0385 >150 mrem/hr b. The release cannot be terminated within 15 minutes.</p> <p><u>OR</u> 3. <u>Both</u> of the following: a. Confirmed sample analysis indicates that a release exceeding 200 times the applicable values of the ODCM (APA-ZZ-01003), has occurred. b. The release cannot be terminated within 15 minutes.</p> <p align="center">CN 00-006 & 008</p> <p>@Release values based on average meteorological data and a 1 hour release duration.</p>	<p>Indicators <u>Any</u> of the following: CN 00-002</p> <p>*1. A valid reading on the Unit Vent monitor, GT-RE-21B, > 2.42E+8 µCi/sec for 15 minutes or longer. *@2. <u>Both</u> of the following: a. A Valid reading on any of the following monitors: AB-RE-0111 >146 mrem/hr AB-RE-0112 >146 mrem/hr AB-RE-0113 >146 mrem/hr AB-RE-0114 >146 mrem/hr FC-RE-0385 >850 mrem/hr CN 00-006 & 008 b. The reading has been, or is expected to be, exceeded for 15 minutes or longer.</p> <p>3. A valid dose projection indicates >100 mrem TEDE or >500 mrem CDE thyroid dose at, or beyond, the EXCLUSION AREA BOUNDARY using in plant rad data or field monitoring team survey results.</p> <p>4. Field survey results at, or beyond, the EAB corresponding to >100 mrem/hr TEDE for 1 hour (or expected to continue for 1 hour) or >500 mrem/hr CDE thyroid for 1 hour of inhalation.</p> <p>*Declare the event using this indicator <u>only</u> if actual dose projections per Indicator 3 cannot be performed within 15 minutes of the monitors exceeding the reading.</p> <p align="center">CN 00-006 & 008</p> <p>@Release values based on average meteorological data and a 1 hour release duration.</p>	<p>Indicators <u>Any</u> of the following: CN 00-002</p> <p>*1. A valid reading on the Unit Vent monitor, GT-RE-21B, > 2.42E+9 µCi/sec for 15 minutes or longer. *@2. <u>Both</u> of the following: a. A Valid reading on any of the following monitors: AB-RE-0111 >1460 mrem/hr AB-RE-0112 >1460 mrem/hr AB-RE-0113 >1460 mrem/hr AB-RE-0114 >1460 mrem/hr FC-RE-0385 >8500 mrem/hr b. The reading has been, or is expected to be, exceeded for 15 minutes or longer.</p> <p>3. A valid dose projection indicates >1000 mrem TEDE or >5000 mrem CDE thyroid dose at, or beyond, the EXCLUSION AREA BOUNDARY using in plant rad data or field monitoring team survey results.</p> <p>4. Field survey results at, or beyond, the EAB corresponding to >1,000 mrem/hr TEDE for 1 hour (or expected to continue for 1 hour) or >5,000 mrem/hr CDE thyroid for 1 hour of inhalation.</p> <p>*Declare the event using this indicator <u>only</u> if actual dose projections per Indicator 3 cannot be performed within 15 minutes of the monitors exceeding the reading.</p> <p align="center">CN 00-006 & 008</p> <p>@Release values based on average meteorological data and a 1 hour release duration.</p>

**Table 4-1
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As is currently

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Offsite Events**

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<p><u>Indicators</u> 1. <u>All</u> of the following: a. A valid alarm and reading on any of the following effluent monitors: HB-RE-18 GT-RE-21B GH-RE-10B b. The valid reading is 2 times the Hi Hi alarm setpoint value. c. The release cannot be terminated within 60 minutes of the alarm actuation. <u>OR</u> 2. <u>Both</u> of the following: a. Confirmed sample analysis indicates that a release exceeding 2 times the applicable values of the ODCM (APA-ZZ-01003), has occurred. b. The release cannot be terminated within 60 minutes.</p>	<p><u>Indicators</u> 1. <u>All</u> of the following: a. A valid alarm and reading on any of the following effluent monitors: HB-RE-18 GT-RE-21B GH-RE-10B b. The valid reading is 200 times the Hi Hi alarm setpoint value. c. The release cannot be terminated within 15 minutes of the alarm actuation. <u>OR</u> **2. <u>Both</u> of the following: CN 00-002 a. A Valid reading on any of the following monitors: AB-RE-0111 > 27 mrem/hr AB-RE-0112 > 27 mrem/hr AB-RE-0113 > 27 mrem/hr AB-RE-0114 > 27 mrem/hr FC-RE-0385 > 150 mrem/hr b. The release cannot be terminated within 15 minutes. <u>OR</u> 3. <u>Both</u> of the following: a. Confirmed sample analysis indicates that a release exceeding 200 times the applicable values of the ODCM (APA-ZZ-01003), has occurred. b. The release cannot be terminated within 15 minutes. CN 00-006 **Release values based on average meteorological data and a 1 hour release duration.</p>	<p><u>Indicators</u> Any of the following: CN 00-002 *1. A valid reading on the Unit Vent monitor, GT-RE-21B, $> 2.42E+8$ μCi/sec for 15 minutes or longer. **2. <u>Both</u> of the following: a. A Valid reading on any of the following monitors: AB-RE-0111 > 146 mrem/hr AB-RE-0112 > 146 mrem/hr AB-RE-0113 > 146 mrem/hr AB-RE-0114 > 146 mrem/hr FC-RE-0385 > 850 mrem/hr b. The reading has been, or is expected to be, exceeded for 15 minutes or longer. CN 00-006 3. A valid dose projection indicates > 100 mrem TEDE or > 500 mrem CDE thyroid dose at, or beyond, the EXCLUSION AREA BOUNDARY using in plant rad data or field monitoring team survey results. CN 00-006 4. Field survey results at, or beyond, the EAB corresponding to > 100 mrem/hr TEDE for 1 hour (or expected to continue for 1 hour) or > 500 mrem/hr CDE thyroid for 1 hour of inhalation. CN 00-006 *Declare the event using this indicator only if actual dose projections per Indicator 3 cannot be performed within 15 minutes of the monitors exceeding the reading.</p>	<p><u>Indicators</u> Any of the following: CN 00-002 *1. A valid reading on the Unit Vent monitor, GT-RE-21B, $> 2.42E+9$ μCi/sec for 15 minutes or longer. **2. <u>Both</u> of the following: a. A Valid reading on any of the following monitors: AB-RE-0111 > 1460 mrem/hr AB-RE-0112 > 1460 mrem/hr AB-RE-0113 > 1460 mrem/hr AB-RE-0114 > 1460 mrem/hr FC-RE-0385 > 8500 mrem/hr b. The reading has been, or is expected to be, exceeded for 15 minutes or longer. 3. A valid dose projection indicates > 1000 mrem TEDE or > 5000 mrem CDE thyroid dose at, or beyond, the EXCLUSION AREA BOUNDARY using in plant rad data or field monitoring team survey results. CN 00-006 4. Field survey results at, or beyond, the EAB corresponding to $> 1,000$ mrem/hr TEDE for 1 hour (or expected to continue for 1 hour) or $> 5,000$ mrem/hr CDE thyroid for 1 hour of inhalation. CN 00-006 * Declare the event using this indicator only if actual dose projections per Indicator 3 cannot be performed within 15 minutes of the monitors exceeding the reading.</p>