



ENTERGY

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Ross P. Barkhurst
Vice President, Operations
Waterford 3

W3F1-95-0185
A4.05
PR

November 30, 1995

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

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Emergency Plan

Gentlemen:

Enclosed is a copy of Revision 21 of the Waterford 3 Emergency Plan which is submitted in accordance with 10CFR50.54(q). This submittal is provided under affidavit per requirements of 10CFR50.

The changes to the Waterford Emergency Plan made by Revision 21 do not decrease the effectiveness of the plan. Furthermore, the plan, as changed, continues to meet the standards of 10CFR50.47(b) and the requirements of Appendix E to 10CFR50. Attached is a summary of Revision 21.

Please note that pages A-7-31 and I-14 of the Emergency Plan contain radio frequencies which are considered personal information. The pages with the personal information are attached; it is requested that this information be withheld from the public pursuant to 10CFR2.790. The enclosure contains no personal information and may be considered a public copy.

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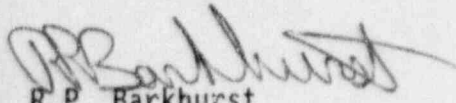
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Emergency Plan
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Page 2
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Please contact F.J. Englebracht, Emergency Planning and Administration Manager, at (504) 739-6607 should you have any questions concerning the changed plan.

Very truly yours,


R.P. Barkhurst
Vice President, Operations
Waterford 3

RPB/GCS/ssf
Enclosure
Attachments

cc: (w/Enclosure & Attachments)
L.J. Callan, (2 copies)

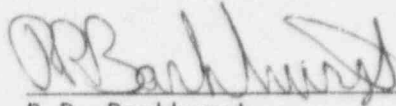
(w/o Enclosure & Attachments)
R.B. McGehee
N.S. Reynolds
NRC Resident Inspectors Office

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the matter of)
)
Entergy Operations, Incorporated) Docket No. 50-382
Waterford 3 Steam Electric Station)

AFFIDAVIT

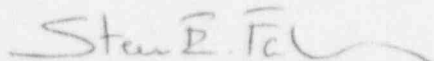
R.P. Barkhurst, being duly sworn, hereby deposes and says that he is Vice President Operations - Waterford 3 of Entergy Operations, Incorporated; that he is duly authorized to sign and file with the Nuclear Regulatory Commission the attached Emergency Plan Revision 21; that he is familiar with the content thereof; and that the matters set forth therein are true and correct to the best of his knowledge, information and belief.



R.P. Barkhurst
Vice President Operations - Waterford 3

STATE OF LOUISIANA)
) ss
PARISH OF ST. CHARLES)

Subscribed and sworn to before me, a Notary Public in and for the Parish and State above named this 30TH day of NOVEMBER, 1995.



Notary Public

My Commission expires WITH LIFE



SUMMARY OF REVISION
WATERFORD 3 EMERGENCY PLAN
REVISION 21

TABLE OF CONTENTS

<u>PAGE</u>	<u>COMMENTS</u>
2	5.2.1, Changed "Ebasco Services Incorporated" to "Raytheon Engineers and Constructors", this change was due to the sale of Ebasco. 5.2.2, Added "ABB" to the title of Combustion Engineering, Inc. (C-E), this is an editorial change. 5.2.5, Changed "Entergy Services - Customer Services" to "Entergy Services - Transmission & Distribution Systems", this change was made due to LP&L reorganization.
3	Figure 5-5, Changed "Ebasco Emergency Response Organization" to "Raytheon Emergency Response Organization" due to sale of Ebasco to Raytheon Engineers & Constructors.
6	Figure 7-7, Revised title in Table of Contents to agree with the figure title. Table 7-5, Provided a common title for both sections of Table 7-5.

SECTION 1

<u>PAGE</u>	<u>COMMENTS</u>
1-5	1.1.38, Revised the definition of "Highly Contaminated Area". Change was made in order to be consistent with recent Health Physics procedure changes.
1-6	1.1.39, Revised the definition of "High Radiation Area" in order to be consistent with Title 10, <u>Code of Federal Regulations</u> and Health Physics procedures.
1-8	1.1.58, Revised the definition of "Personnel Monitoring Equipment". Change was made in order to provide a better description of the purpose of this equipment.

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SECTION 1 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
1-9	1.1.67 & 1.1.68, Revised the definitions of "Radiation Area" and "Radiation Controlled Area (RCA)" in order to be consistent with Title 10, <u>Code of Federal Regulations</u> and Health Physics procedures.
1-10	1.1.71, Revised the definition of "Restricted Area". This change due to the recent change of 10CFR rule on "occupational dose".
1-11	1.1.78, Revised the definition of "Unrestricted Area" in order to be consistent with Title 10, <u>Code of Federal Regulations</u> .
1-14	1.2.41, Added "Mean Sea Level" to the list of abbreviations. Editorial change.
1-15	1.2.60, Added "Satellite Display System" (SDS), to the list of abbreviations. This is due to the replacement of the Plant Monitoring Computer (PMC) equipment. The replacement of the Plant Monitoring Computer during Refuel Outage 7 in the fall of 1995 represents a significant Plan change.

SECTION 2

<u>PAGE</u>	<u>COMMENTS</u>
2-1	Corrected title of 10CFR50.34 listed in the Plan. Editorial change.
2-2	Section 2.2, Added "ABB" to the title of Combustion Engineering. Editorial change.

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SECTION 2 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
2-4	Section 2.3, Increased the referenced number of chemical industries in Waterford's 2-mile radius from 5 to 7. Air Products and Koch Nitrogen were added. In addition, revised the population count for St. Charles and St. John Parishes, in order to be consistent with Figure 2-4 on page A-2-4.
A-2-2	Figure 2-2, Revised map to incorporate Koch Nitrogen and Air Products.
A-2-3	Figure 2-3, Revised map to show the location of the Low Level Radioactive Waste Building (new facility). Also made additional changes to the map to incorporate the removal of trailers.
A-2-4	Figure 2-4, 0 to 2 mile ring north sector, changed 587 to 592 to correct number in the Plan. Editorial change.

SECTION 3

<u>PAGE</u>	<u>COMMENTS</u>
	There are no revisions to Section 3, Revision 21, of the Emergency Plan.

SECTION 4

<u>PAGE</u>	<u>COMMENTS</u>
A-4-3	Table 4-1, Category B, Incorporated Change 1 of Revision 20 into Revision 21. Category B, Unusual Event # 3, changed the greater than symbol (>) to "greater than". This is consistent with the other Initiating Conditions and is an editorial change.

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SECTION 4 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
A-4-5	Table 4-1, Category C, Incorporated Change 1 of Revision 20 into Revision 21. Category C, Site Area Emergency # 4, Added the acronym (ATWS) to the end of this Initiating Condition. Editorial change.
A-4-10 & A-4-11	Table 4-1, Category E, Incorporated Change 1 of Revision 20 into Revision 21.
A-4-16	Table 4-2, Incorporated Change 1 of Revision 20 into Revision 21.

SECTION 5

<u>PAGE</u>	<u>COMMENTS</u>
5-13	Section 5.1.2.2e, Changed "-4 el." to "-4 elevation". Editorial change.
5-14	Section 5.1.2.2f3, Added the operation of an SPDS console to the responsibilities of the TSC Operations Coordinator. Due to the PMC replacement, this position is now equipped with a computer keypad giving them the capability to control an SDS monitor.
5-15	Section 5.1.2.2h, Revised the description of the TSC Lead Engineer's responsibility in regard to the operation of the SPDS console. This is due to the PMC replacement and the fact that this position is no longer the only operator of the SPDS. Section 5.1.2.2i, Described the capability of the TSC Technical Assessment Engineers to operate an SPDS console. This is due to the PMC replacement which gave this position an SDS console.

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SECTION 5 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
5-25	Section 5.1.2.2aa6, Changed "-4 el." to "-4 elevation". Editorial change.
5-30	Section 5.1.2.3.1c3, Added "ABB" to Combustion Engineering. Editorial change.
5-42	Section 5.1.2.3.1u2, Revised notification requirements of the Energy System Liaison to fossil plants in Waterford's EPZ. This increases the efficiency of notifications by directing the notification to the appropriate level of management.
5-43	Section 5.1.2.3.1u3, Added this requirement to the Energy Systems Liaison and removed it from the Customer Services organization. This change was made to increase the efficiency of notifications. Section 5.1.2.3.1u4 & 6, Changed "Customer Services" to "Transmission and Distribution Systems". Due to LP&L reorganization.
5-45	Section 5.1.2.3.2A, Removed the LP&L Luling Business Office and Reserve District Office as locations to handle customers calls. These offices were closed as part of LP&L reorganization. These calls will be handled by the Rumor Control Organization.
5-50	Section 5.1.2.3.2A10, Deleted the ENC Office Manager Assistant position. Duties were redistributed throughout the ENC organization.
5-51	Section 5.1.2.3.2A12, Added "assistance with ENC set-up" to the description of this position, "Logistics & Production Assistants". A clarification of duties.
5-54	Section 5.2.1, Changed "Ebasco Services Incorporated" to "Raytheon Engineers and Constructors." This change is due to the purchase of Ebasco by Raytheon.

SUMMARY OF REVISION
WATERFORD 3 EMERGENCY PLAN
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SECTION 5 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
5-54(cont'd)	Section 5.2.2, Added "ABB" to the title of Combustion Engineering, Inc. This is an editorial change.
5-57 & 5-58	Section 5.2.5, Changed "Entergy Services - Customer Services" to "Entergy Services - Transmission and Distribution Systems". This is due to LP&L reorganization.
5-59	Section 5.3.1, Added "Emergency Assistance and" and changed the date to "1993" of the title "Louisiana Disaster Act of 1974" to update the Plan.
5-64	Section 5.3.2.2b, Added "Louisiana Army and Air" to the title of "National Guard". This is an editorial change. Section 5.3.2.2b, Added the word "transportation" to the description of this agency's responsibilities to clarify the Plan.
5-65	Section 5.3.2.5, Deleted from the Plan the reference to the Department of Commerce, Office of Commerce and Industry. This agency no longer has a function under the revised State Emergency Plan. Section 5.3.2.6, Added the "coordination of transportation resources" to the responsibilities of the Department of Education to clarify the Plan.
5-66	Section 5.3.2.7a, Revised section to indicate that Department of Social Services is the responsible party for the coordination of responses from private entities, as related to the elderly, handicapped and others with special needs. This is a clarification of responsibilities.
A-5-4	Figure 5-4, Deleted the ENC Office Manager Assistant from this matrix. These duties were reassigned throughout the ENC organization.

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SECTION 5 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
A-5-5	Figure 5-5, Revised this matrix to show the Raytheon Emergency Response Organization. This is due to the purchase of Ebasco by Raytheon.
A-5-16	<p>Table 5-5, Revised this table to indicate that the TSC Lead Engineer and the Operations Coordinator positions both operate the SPDS. This is due to the implementation of the new Plant Monitoring Computer System. With the new system, both positions have computer keypads at their location. Support responsibility was added for the Operations Communicator. Technical Assessment Engineers also have an SDS unit available in their work area with the new PMC modification.</p> <p>In addition, revised the table to show the TSC Supervisor and the TSC Supervisor Communicator as having the responsibility for "Site Security/Personnel Accountability" in the TSC versus the TSC Lead Engineer and the TSC Technical Assessment Engineers. This corrects Table 5-5 of the Plan.</p>
A-5-22 & A-5-23	Table 5-8, Deleted the ENC Office Manager Assistant from this table and added the Technical Spokesperson Assistant (Correction. Technical Spokesperson Assistant inadvertently left off of Table 5-8). Also revised the table to indicate the correct responsibility flow for the following positions: Media Monitoring Assistants, Employee Information Supervisor, ENC Office Manager, Logistics & Production Assistants and Technical Spokesperson.

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SECTION 6

<u>PAGE</u>	<u>COMMENTS</u>
6-10	Section 6.2.2.5a(1) & (2), Changed the name of "St. John the Baptist Parish Dispatch Center" to "St. John the Baptist Parish Emergency 911 Communications Center". This revision also indicates that the 911 Center will remain active until relieved by the EOC. This change is due to the construction of a 911 facility in St. John Parish.
6-11	Section 6.2.2.6c(4) & (5), Deleted reference to the US Environmental Protection Agency (EPA) to agree with the current revision of the State Plan.
6-12	Section 6.2.2.7c(4), Added the word "other" to this reference. This is an editorial change.
6-24	Section 6.6.1.2, This revision provides clarification of how PAGs are reported and coordinated and refers to the State Plan for State actions.
6-27	Section 6.6.1.2(2), Added "in place" to statements. This is a clarification of the statement. This is the common terminology used when sheltering is requested and informs personnel not to leave their existing structures to report to another.
6-28	Section 6.6.1.2(2), Added "their respective" to the text. This is a clarification of the statement.
6-29	Section 6.6.1.3a(2), Deleted "and for forwarding that recommendation to risk parishes" from this section. This is not a responsibility of this agency. LRPD is responsible for this task.

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SECTION 7

<u>PAGE</u>	<u>COMMENTS</u>
7-3	Section 7.1.2, Changed "five CRT consoles" to "four Satellite Display System (SDS) units". This is due to the Plant Monitoring Computer replacement. The new PMC uses PCs in the Windows environment making it possible to view multiple screens at one time.
7-8	Section 7.2.2, Changed "Poydras Plaza" to "Entergy Building". This is an editorial change. Name of Building changed, actual location of Emergency News Center did not.
7-9	Section 7.3.3, Clarified laboratory description. Editorial change.
7-10	Section 7.3.4, Changed Ebasco to Raytheon and added ABB to Combustion Engineering. This is an editorial change.
7-16	Section 7.4.2.8, Changed "daily when in use" to "in accordance with Health Physics procedures." Section 7.4.3, Changed "Main access control point" to "-4 elevation access control point". This is a more accurate description of location of the counting rooms. Section 7.4.3, Changed "Radiochemistry laboratory" to "counting rooms". This is an editorial change.
7-17	Section 7.4.3, Deleted the word "surveys" associated with "tritium" in sentence at top of page. This is an editorial change. Deleted the Riverbend Environmental Laboratory to update the Plan. Laboratory has been closed.

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SECTION 7 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
7-20	Section 7.4.5, Changed "analog recorders" to "data loggers". Equipment at the meteorological tower locations was recently upgraded. The new equipment provides the same function.
7-21	Section 7.4.5, Changed "technical specifications" to "technical requirements manual". Various plant technical information has been removed from Technical Specifications and now resides in the Technical Requirements Manual.
7-33	Section 7.4.11c, Changed "CRT" to "SDS". This is terminology used with the new plant monitoring computer.
7-35	Section 7.4.11c, At the bottom of this page, provided a footnote that discusses plant monitoring computer replacement.
7-39	Section 7.5.1d, Referred to five radio systems versus four and stated that the fifth system is the field monitoring teams radio. This is an editorial change. This is an existing radio system.
7-44	Section 7.5.1.4d, Changed "radio base stations" to "radio remote stations". There is only one base station and the remote stations are satellite stations of the base.
A-7-8	Figure 7-8, Revised to show correct support facilities and locations. (i.e., Raytheon, INPO, ABB Combustion Engineering)
A-7-12	Figure 7-9D, Eliminated some of the details on this map to more clearly indicate field monitoring point locations.
A-7-14	Table 7-1, Revised the scale of the "Neutron Flux and Rate of Change of Power" to correct Plan.

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SECTION 7 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
A-7-15	Table 7-1, Added the degree symbol to the scale readings of Loops 1 & 2 Hot Leg Temp and Loops 1 & 2 Cold Leg Temp. This is an editorial change.
A-7-16	Table 7-2, Added the component numbers to all monitor descriptions. Table 7-2, In the (Range) header, changed "uCj" to "uCi" to correct a typographical error. Table 7-2, Deleted the phrase "and locally" from the alarm location column of item #1. This change made to be consistent with the FSAR.
A-7-17	Table 7-2, Added the component numbers to all monitor descriptions. Table 7-2, Deleted item number 6, CVCS Process Rad. Monitor. This monitor was deactivated in the plant.
A-7-17	Table 7-2, In the (Range) header, changed "uCj" to "uCi" to correct a typographical error.
A-7-17	Table 7-2 Range column, Revised verbiage in items 9 & 11 to clarify the Plan.
A-7-18	Table 7-2, Added the component numbers to all monitor descriptions. Table 7-2, In the (Range) header, changed "uCj" to "uCi" to correct a typographical error. Table 7-2, Provided a description of the monitor channels in the range column of items 14 & 15.

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SECTION 7 (CONTINUED)

<u>PAGE</u>	<u>COMMENTS</u>
A-7-19	Table 7-2, Added the component numbers to all monitor descriptions. Table 7-2, In the (Range) header, changed "uCj" to "uCi" to correct a typographical error. Table 7-2, Provided a description of the monitor channels in the range column of item 16.
A-7-22	Table 7-3, Revised the monitor ranges to be consistent with the FSAR and clarified temperature units where applicable.
A-7-23	Table 7-4, Added the component numbers to the monitors on this page.
A-7-24 & A-7-25	Table 7-5, Provided a common title for both sections of table 7-5.
A-7-25	Table 7-5, Indicated that a GM frisker is used by field monitoring teams.
A-7-27	Table 7-7, Changed the range of the Low Volume Air Sampler from 2 ft ³ /min. to 1.5 ft ³ /min.
A-7-30	Table 7-10, Incorporated Change 1 of Revision 20 of the Plan.
A-7-30, A-7-31 A-7-32 & A-7-33	Table 7-10, Revised the section numbers referred to in the "Plan Reference" column to correct the Plan.
A-7-31	Table 7-10, Added a footnote at the bottom of this page to indicate that there is information on this page that is considered proprietary or private. Removed previous footnote regarding 800 MHz system installation. Installation complete.

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SECTION 8

<u>PAGE</u>	<u>COMMENTS</u>
8-7	Section 8.1.2.4, Replaced "General Manager Plant Operations" with "Emergency Planning and Administration Manager". Emergency Plan Implementing Procedures will no longer be required to be reviewed by the General Manager Plant Operations.
8-10	Section 8.1.2.5, Revised to specify that selected site drill scenarios will meet the criteria listed in the Plan, but other scenarios (offsite medical drills, communications drills, etc.) may not.
8-12	Section 8.3.1, Provided the process by which Emergency Plan Implementing Procedures will be reviewed.

SECTION 9

<u>PAGE</u>	<u>COMMENTS</u>
	There are no revisions to Section 9, Revision 21, of the Emergency Plan.

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APPENDIX A

PAGE

COMMENTS

There are no revisions to Appendix A, Revision 21, of the Emergency Plan.

APPENDIX B

PAGE

COMMENTS

There are no revisions to Appendix B, Revision 21, of the Emergency Plan.

APPENDIX C

PAGE

COMMENTS

- C-2 Appendix, Table of Contents, Changed Ebasco Services Incorporated to Raytheon Engineers & Constructors, added "ABB" to Combustion Engineering Incorporated and changed Entergy Services - Customer Services to Entergy Services - Transmission and Distribution Systems (TDS).
- C-70 The Institute of Nuclear Power Operations agreement was updated.
- C-92 Replaced the Ebasco agreement with the Raytheon agreement.

APPENDIX D

PAGE

COMMENTS

There are no Revisions to Appendix D, Revision 21, of the Emergency Plan.

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APPENDIX E

PAGE

COMMENTS

There are no revisions to Appendix E, Revision 21, of the Emergency Plan.

APPENDIX F

PAGE

COMMENTS

There are no revisions to Appendix F, Revision 21, of the Emergency Plan.

APPENDIX G

PAGE

COMMENTS

- G-2 Appendix G, OSC Storage Room, Changed portable radio and portable radio Charger to handheld radio and handheld radio charger. This was made to be consistent with Emergency Plan Implementing Procedures.
- G-4 Appendix G, Field Monitoring Kits, Changed portable radio and portable radio charger to handheld radio and handheld radio charger. This was made to be consistent with Emergency Plan Implementing Procedures.
- G-9 Appendix G, Assembly Area Supervisor Kit, Changed portable radio and portable radio charger to handheld radio and handheld radio charger. This was made to be consistent with Emergency Plan Implementing Procedures.

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APPENDIX H

<u>PAGE</u>	<u>COMMENTS</u>
H-5	There are no revisions to Appendix H, Revision 21, of the Emergency Plan.

APPENDIX I

<u>PAGE</u>	<u>COMMENTS</u>
I-6	Section 4.0, Incorporated change 1 of revision 20 into revision 21.
I-12	Section 5.3.4, Removed the Unusual Event Declaration for the transportation of a contaminated injured/ill patient. This change was inadvertently omitted in change 1 of revision 20.

APPENDIX J

<u>PAGE</u>	<u>COMMENTS</u>
	Reformatted this entire section.
J-1	Figures Column, Deleted 5-7. This figure was removed from the Plan in a previous revision.
J-2	Figures Column, Changed 5-7 to 5-6. Figure 5-7 was removed from the Plan in a previous revision. Section Column, Changed 5.1.2.3q to 5.1.2.3.lq.

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REVISION 21

APPENDIX K

<u>PAGE</u>	<u>COMMENTS</u>
Title Page	Revised to agree with Table of Contents listing for title.
K-1	Revised this section, Appendix K, Revision 21, of the Emergency Plan as follows: Deleted the reference to "tone-alert radios" in this section to correct the Plan. Changed mobile siren and alert confirmation responsibility from State to parishes to correct the Plan. Clarified primary notification system methods.