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SERIAL: HNP-02-152 10 CFR 50, Appendix E

United States Nuclear Regulatory Commission ATTENTION: Document Control Desk Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT DOCKET NO. 50-400/LICENSE NO. NPF-63 CHANGE TO EMERGENCY PLAN IMPLEMENTING PROCEDURES

Dear Sir or Madam:

In accordance with 10 CFR 50, Appendix E, Carolina Power & Light Company is transmitting one copy each of recently revised Harris Nuclear Plant Emergency Plan implementing procedures. The enclosure to this letter identifies the revised emergency plan implementing procedures and the effective date.

If you should have any questions regarding this submittal, please do not hesitate to contact me at (919) 362-3137.

Sincerely,

John R. Caves

Supervisor, Licensing/Regulatory Programs

Harris Nuclear Plant

John R. Cover

MGW

c:

Enclosures

Mr. J. B. Brady (NRC Senior Resident Inspector, HNP)

Mr. L. A. Reyes (NRC Regional Administrator, Region II) two copies of procedure

Mr. R. Subbaratnam (NRC Project Manager, HNP)

Harris Nuclear Plant 5413 Shearon Harris Road New Hill, NC 27562 Rolf

Enclosure to

SERIAL: HNP-02-152

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CHANGES TO EMERGENCY PLAN IMPLEMENTING PROCEDURES

PROCEDURE NUMBER	TITLE	<u>DATE</u>
PEP-250 Revision 10	Activation and Operation of the Joint Information Center	10/30/02
PEP-342 Revision 3	Core Damage Assessment	10/28/02



Information

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Use

CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE:

Plant Emergency Procedure

NUMBER:

PEP-250

TITLE:

Activation and Operation of the Joint Information Center

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1.0 PURPOSE

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- 1. This procedure implements Sections 2.4 and 3.6 of the Emergency Plan PLP-201.
- 2. It specifies the actions taken by Emergency Response Organization (ERO) personnel who report to the Joint Information Center (JIC).

2.0 INITIATING CONDITIONS

- 1. An Alert or higher classification has been declared.
- 2. A decision has been made to activate the JIC.

3.0 PROCEDURE STEPS

NOTE: The steps in the checklists may be performed in any order, or more than once, as necessary.

- 1. Attachments 1-8 are to be used as guidance for the positions listed below.
- 2. Attachments 9-11 are to be used as guidance for facility set-up in PEB and the News Media Briefing Area at the Raleigh Convention and Conference Center.
- 3. Attachment 12 is to be used by staff, security and media.
- 4. If an action is not appropriate under existing conditions or was not necessary for the event enter N/A when completing documentation for submittal.

IF YOUR ERO POSITION IS:	POSITIONAL
	ATTACHMENTS:
COMPANY SPOKESPERSON	PEP-250, Attachment 1
	PEP-110, Attachment 4
	PEP-500, Attachment 6
JIC DIRECTOR	PEP-250, Attachment 2
	PEP-250, Attachment 1 Sh. 4
TECHNICAL SPECIALIST	PEP-250, Attachment 3
	PEP-110, Attachment 4
ADMINISTRATIVE COORDINATOR	PEP-250, Attachment 4
ADMINISTRATIVE ASSISTANT	PEP-250, Attachment 5
	PEP-250, Attachment 12
MEDIA BADGING SPECIALIST	PEP-250, Attachment 6
PUBLIC INFORMATION	PEP-250, Attachment 7
COORDINATOR	
PUBLIC INFORMATION SPECIALIST	PEP-250, Attachment 8

4.0 GENERAL

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- 1. The Administrative and Logistics Manager (ALM) in the Emergency Operations Facility (EOF) is responsible for arranging relief schedules for the JIC Staff.
- 2. If a subordinate position with an augmentation time requirement is not filled, the supervisory position may fulfill the responsibilities provided they are trained to perform the activities.
- 3. The Joint Information Center is an Emergency Response Facility for the Harris Plant. It is staffed by Progress Energy, the State of North Carolina, Chatham, Harnett, Lee and Wake Counties, NRC and FEMA.
- 4. The Company Spokesperson serves as the facilitator during news media briefings with Progress Energy, the State, Counties, NRC and FEMA.
- 5. Partial staffing of the JIC should be considered if personnel are present who can adequately perform the needed functions.
- 6. All functional capabilities need not be staffed for the JIC to be activated, if the Company Spokesperson determines that the missing functions are not presently required to adequately deal with the situation.

7. Logkeeping

- a) Individual logs and facility logs are legal records of activities that occurred during an emergency. It is vital that they are as complete as possible.
- b) Logs should include such information as:
 - 1) Times of major events and subsequent actions taken (such as, change in emergency classifications, fission product barrier status, discovery of an unplanned radiological release).
 - 2) Times and content of important communications with other members of the ERO that are related to major events (such as, decisions made during turnover or routine briefings and subsequent actions taken).
 - 3) Specific actions taken to mitigate equipment failures, contain chemical or radiological spills or fires, and so forth.
 - 4) Specific references to Emergency Radiation Work Permits, clearances, procedure deviations authorized, emergency radiation exposures authorized, and so forth.
 - 5) All records shall be made by black indelible means, such as ink or typing.
 - 6) Corrections shall be made by drawing a single line through and initialing and dating the incorrect entry.

4.0 **GENERAL** (continued)

- c) Preparation of Activity Logs
 - 1) Initiate the last sheet of the applicable checklists as follows:
 - DATE
 - PAGE OF: Enter "1" on the first page and sequential numbers on the following pages as they are used.
 - 2) Enter chronologically those events that are pertinent to the particular individual or organizations:
 - <u>TIME</u>: Record the time (using the 24 hour clock) that a message or information was received or action was taken.
 - SUMMARY OF ACTIVITY PERFORMED: Briefly record the incident, message, or order received or transmitted. Indicate the time of the incident and actions taken.
 - 3) Upon relief from the position or termination of the emergency, complete the log as follows:
 - PAGE OF: Enter the total number of pages used at the top of each page (that is, Page 1 of 12, Page 2 of 12, and so forth).
 - NAME AND SIGNATURE: Check the log for completeness, then in the Comments Section of the last page used in the log, print and sign your name.
 - 4) The person relieving the position will initiate and maintain a new log and any previously prepared logs to allow for continuity of the position.
 - 5) Upon termination of the emergency or exercise/drill, provide all completed logs to the Company Spokesperson who will then forward to the Emergency Preparedness unit.

5.0 REFERENCES

7

5.1 Emergency Plan References

- 1. Section 2.4, Assignment of Responsibilities
- 2. Section 3.6, Joint Information Center

5.2 Referenced Plant Emergency Procedures

- 1. PEP-110, Emergency Classification and PARs
- 2. PEP-500, Recovery

5.3 Other References

1. EPL-001, Emergency Phone List

6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents

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Posit respo		unction: Provide command and control of the public information emergence	gency
Resp	onsib	ility/Activity '	<u>✓</u>
1.	Assu	ime the position of Company Spokesperson.	
	a)	Sign in on the ERO sign-in board, JIC Sign-In Log and obtain position badge.	
	b)	Assist with facility set-up as needed.	
	c)	Perform proper relief of the currently staffed position.	
	d)	Announce that the position is filled to personnel who are present.	
2.	Main	tain a log of activities (Attachment 1, Sheet 7 of 7).	
3.	Activ	rate the facility.	
	a)	Obtain a briefing from the EOF using the Event Information Worksheet (PEP-110, Attachment 4).	
NOTE	: :	Formal authorization must be provided when filling an ERO position with an individual not listed on the active ERO roster (EPL-001).	
	b)	Ensure an adequate staff is present. Minimum staffing includes:	
		Company SpokespersonTechnical SpecialistJIC Director	
	c)	Ensure adequate plant status information is available to the Technical Specialist.	
	d)	Brief State, County and Progress Energy JIC personnel using Intrafacility Briefing Guideline (Attachment 1, Sheet 5 of 7).	
	e)	Ensure the JIC Director and Technical Specialist have received a plant status briefing prior to JIC activation.	
	f)	Notify the EOF and JIC personnel of facility activation.	
4.	Main	tain awareness of offsite agency command and control.	
5.	Maintain awareness of recent industry events that may become media/public interest items (i.e., use of the International Nuclear Incident Scale).		

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Resp	esponsibility/Activity			
6.			the release of information with Public Information Officers and other government agencies.	
	a)		edule and conduct pre-news media briefing conferences with cipating Public Information Officers.	
	b)	1, Sh	plete a Spokesperson Briefing Attendance Form (Attachment neet 4 of 7) and provide copies to the Media Badging Specialist istribution.	
	c)	Estal Publi	blish the format for news media briefings with other agency ic Information Officers using the following as a guide:	
		1)	Start on time; set expectations for briefing (when, how, why).	
		2)	Introduce agency spokesperson.	
		3)	Instruct the media of the news briefing format (for example: each agency will make a brief statement with questions at the end); one at a time, state name & affiliation; one question at a time; use microphone.	
		4)	Use visuals and handouts.	
		5)	Treat cameras as reporters.	
		6)	Close briefing with telephone number for media and public to call for information and next news media briefing time.	
7.	class has b	ificatio een p	vs releases are issued no later than 45 minutes after an event on change, radiological release or other significant event that rovided to the State and counties via the Emergency Form.	
	a)	Ensi	ure that the JIC Director prepares non-technical news releases.	
	b)		ure that adequate information is being received from the EOF lews media briefings.	
	c)		ure that Progress Energy news releases are prepared, oved and issued in a timely manner.	
NOT	<u>E</u> :	Med	chnical expertise is required for the Pre-News and/or News ia Briefing conferences inform the Technical Specialist position sher participation.	•
8.	Site A	Area E	riodic briefings with the news media (within 60 minutes of the mergency, General Emergency, radiological release or other event) (Attachment 1, Sheet 6 of 7).	
	a)	Sche	edule and facilitate the news media briefings.	

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Resp	<u>onsibi</u>	lity/Activity	<u>✓</u>	
9.	Ensure adequate personnel and material resources are available for the public information response.			
10.	Cond 6).	uct Recovery Operations when appropriate (PEP-500, Attachment		
11.	Conduct periodic facility briefings and status updates with the Progress Energy public information staff (Attachment 1, Sheet 5 of 7).			
12.	Request any materials or supplies from the Administrative Coordinator.			
13.	Term	ination of the emergency.		
	a)	Collect all JIC generated logs and records and provide them to Emergency Preparedness.		
	b)	Replenish content of your position notebook.		
	c)	Restore facility to stand-by readiness.		
	d)	Inventory facility equipment as applicable.		

PEP-250

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Date:	
Time:	
Spoke	SPERSON BRIEFING ATTENDANCE FORM
Agency	Spokesperson's Name
de Arministra Variable	

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DATE:

TIME:

COMPANY SPOKESPERSON CHECKLIST

INTRAFACILITY BRIEFING GUIDELINE

2 4 30

•	Facility issues; noise level, saf Use checklists and logs; updat	ns; brief summary of area, use of three-way communication ety, access control
	O POSITIONAL SUMMARY	5. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
1. 2. 3.	Classification level Current plant status Mitigating activities and priorities	NOTES:
AD		2007年1月,1月1日日本的大学的基础的特别的企业,于企业的经济的特别的企业的
1. 2. 3.	Facility staffing Security briefing Special needs	NOTES:
JIC	DIRECTOR ペンストットやでデーススター	· "他们,我看着自己是这个人的一个,我们就是一个人的一个,
1.	Contacts made (CCD, HNP, EOF News Coordinator) Press releases issued (#'s)	NOTES:
PU	BLIC INFORMATION COORDINATOR	10.2.4 金元在12.0.5.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
1. 2. 3.	Public Information staffing Rumors, reoccurring questions Telephone numbers for PI staff	NOTES:
ST	ATE/COUNTIES/NRC/FEMA REPS. ং 🖰	ed 在1915年中,在1915年中,1915年中的191
1. 2.	Staffing Issues T EXPECTATIONS	NOTES:
35	LEAFEULATIONS	

CONCLUDE BRIEFING

Announce next JIC briefing time

Critical JIC activities

Areas of focus

Anticipate media/public reactions

RECAP CURRENT CONDITIONS

Introductions

Announce "END OF BRIEF" and ensure all have understood

Recent industry events that may become public/media interest items

AND THE RESERVE TO THE PARTY OF THE PARTY OF

Attachment 1 Sheet 6 of 7

COMPANY SPOKESPERSON CHECKLIST

NEWS MEDIA BRIEFING GUIDELINE

DE	IOR TO NEWS MEDIA BRIEFING (II	N COMMAND ROOM):	DATE:
-	Schedule/conduct pre-news medi	a brief conf with participating PlOs	TIME:
•	Establish format/briefing expecta	tions with participating PIOs; start on	time
•	Materials needed:		
		son Briefing Attendance Form from Ji	C Director; give to Media
	Badging Specialist to issue		
	 PEP-110, Attachment 4 for ref 		
	 News releases since last new 		
	 Media Handbook and addition 	al visual aids (as applicable)	
	Available cell phone or equiva-	alent for Public Information Coordinate	or
	Turn Command Room over to	JIC Director prior to leaving Comman	id Room
SE	T EXPECTATIONS		
•	Introductions		
•	Set expectations for news media		
	 Each agency will brief; questi 		
	Step to the microphone; state	name and affiliation	
	 One question at a time 		
•	Maintain command and control		
₹TE	CHNICAL SPECIALIST 产生的基本的	2.200.180.180.180.180.180.180.180.180.180.1	我本語是例字數本語為於語為在於自
1.	Classification level	NOTES:	
2.	Current plant status in non-		
3.	technical terms Activities and priorities		
۱ ٽ [.]	Additional profition		
		THE PROPERTY PROPERTY OF THE P	人名人姓氏
1.	Offsite actions taken	NOTES:	
2.	Telephone number for PI staff		
ico	UNTY PIOS YELLOW ALL THE FIRST	YEARTEL GALLES THE TENTE TO THE	证证图据包化的思定法定分为的现在允许
1.	Offsite actions taken	NOTES:	
2.	Telephone number for PI staff		
L.,	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	THE WATER CONTROL TO A LEGISLA	A STATE OF THE PARTY OF THE PAR
-		NOTES:	The an other state that the same of 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1.	Staffing Issues	Tio Lo.	
		的组件研究利用的企业和通知的经验工程的 例	在計算和投資的計劃。
1.	Staffing	NOTES:	
2.	Issues		
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1.	Staffing	NOTES:	

QUESTIONS & ANSWERS

Maintain Command and Control

CONCLUDE BRIEFING

2. Issues

- Announce next news media briefing time
- Recap PI telephone number

. 6-

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JIC	DATE:		PAGE	OF
Time	Comments			
	·			
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		•		
			<u> </u>	
				
				-

Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

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JIC DIRECTOR CHECKLIST

Doon	oncibi	litu/A ativitu	<u>✓</u>
1.	Notify	ithe Administrative Coordinator and instruct him or her to set up the	
_	JIC.		
2.	Assume the position of JIC Director.		
	a)	Sign in on the ERO sign-in board, JIC Sign-In Log and obtain position badge.	
	b)	Perform proper relief of the currently staffed position.	
	c)	Announce that the position is filled to personnel who are present.	
3.	Mainta	ain a log of activities (Attachment 2, Sheet 3 of 3).	
4.	Activa	te the facility.	
	a)	Set up the computer and printer and verify operation.	
	b)	Assist with facility set-up as needed.	
	c)	Receive a briefing on plant status.	
	d)	Obtain copies, if any, and verify distribution of news releases issued from the EOF prior to JIC activation.	
	e)	Ensure that the HNP Visitors Center and HNP switchboard (through HNP Security) are informed of JIC activation and the media/public inquiry telephone number.	
5.	Maint	ain awareness of offsite agency command and control.	
NOTE	:	If the Technical Specialist position will be a part of the Pre-News and/or News Media Briefing conferences receive a turnover of activities.	
6.		ne command and control in Company Spokesperson's absence news media briefings.	
7.	Devel	op news releases.	
	a)	Receive draft news releases from the EOF. Review with Company Spokesperson to determine if content meets public understanding.	
	b)	Provide news releases to the Company Spokesperson for approval.	
	c)	Coordinate with the EOF News Coordinator to ensure issue times and sequential numbers are provided on news releases.	
	d)	Prepare non-technical news releases (EOF approval not required).	

JIC DIRECTOR CHECKLIST

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Resp	onsib	pility/Activity	✓
8.	Distr	ribute news releases.	
	a)	Record the time prior to news release issue.	
	b)	Provide Progress Energy news releases to offsite agency personnel prior to issue, if possible.	
	c)	Use the Agency Stamp to document review of Progress Energy news releases.	
	d)	Provide approved news releases to the Administrative Coordinator for issuance.	
9.		rdinate the flow of information from the JIC to Corporate munications and the State and County Public Information Officers.	
	a)	Provide Corporate Communications the news release to post to the Progress Energy website.	
	b)	Interface with offsite agency representatives to ensure they are receiving the necessary information.	
10.	Brief	st the Company Spokesperson in preparing the Spokesperson ing Attendance Form for each agency/Public Information Officer esentative at the news media briefing (Attachment 1, Sheet 4 of 7).	
11.	Requ	uest any materials or supplies from the Administrative Coordinator.	
12.	Tern	nination of the emergency.	
	a)	Provide all logs and records to the Company Spokesperson.	
	b)	Replenish content of your position notebook.	
	c)	Restore facility to stand-up readiness.	
	d)	Inventory facility equipment as applicable.	

JIC DIRECTOR CHECKLIST

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JIC	DATE:	PAGE OF
Time	Co	mments
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	ALL AND LANGE.	
	-	

Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

TECHNICAL SPECIALIST CHECKLIST

Positi	ion Fu	nction: Obtain and developing technical emergency information.	
Resp	onsibil	lity/Activity .	<u>✓</u>
1.	Assun	ne the position of Technical Specialist.	
	a)	Sign in on the ERO sign-in board, JIC Sign-In Log, and obtain position badge.	
	b)	Assist with facility set-up as needed.	
	c)	Perform proper relief of the currently staffed position.	
	d)	Announce that the position is filled to personnel who are present.	
2.	Mainta	ain a log of activities (Attachment 3, Sheet 3 of 3).	
3.		ve a plant status briefing prior to JIC activation (PEP-110, nment 4).	
4.	Comm	n technical emergency information from the EOF Emergency nunicator-Corporate Communications/JIC for Progress Energy news ags using the Event Information Worksheet (PEP-110, Attachment 4) puide.	
	a)	Maintain regular telephone contact with the EOF Emergency Communicator-Corporate Communications/JIC. When not available turn activity over to the JIC Director or designee.	
	b)	Inform the Company Spokesperson of EOF briefings.	
	c)	Monitor EOF briefings.	
	d)	Provide JIC information during EOF briefings, if requested.	
NOTE	<u>:</u>	Based on the needs of the Company Spokesperson the Technical Specialist may or may not be a part of the Pre-News and/or News Media Briefing Conferences.	
5.		le technical information during the conduct of periodic briefings with ws media at an appropriate level of understanding.	
	a)	Participate in pre-news media briefing conferences to coordinate the information released during news media briefings.	

TECHNICAL SPECIALIST CHECKLIST

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Resp	onsibil	lity/Activity	✓
	b)	Defer non-technical questions and concerns regarding Progress Energy to the Company Spokesperson.	
	c)	Defer questions and concerns regarding offsite activities and positions to the appropriate offsite agency representative.	
	d)	Ensure previously unanswered questions/issues are adequately addressed during subsequent news media briefings.	
6.		ret information from the EOF into non-technical language for news and JIC facility briefings.	
	a)	Ensure the EOF is aware of news media briefing times.	
	b)	Assist in the development of responses to unanswered questions from the news media briefings.	
	c)	Provide feedback to the EOF after news media briefings as necessary.	
7.		le information to the Public Information Coordinator as necessary to ain the Public Information Specialist's status board current.	
8.	Mainta	ain the Fission Product Barrier and EAL portions of the status board.	
	a)	Locate the status boards in clear view in the JIC command room.	
	b)	Maintain a white board with pertinent information, if needed.	
9.	Inform	the Company Spokesperson of rumors or other inaccuracies.	
	a)	Assist in the development of messages to correct rumors and inaccuracies.	
	b)	Ensure the EOF is informed of rumors or other inaccuracies.	
10.	Reque	est any materials or supplies from the Administrative Coordinator.	
11.	Termi	nation of the emergency.	
	a) b)	Provide all logs and records to the Company Spokesperson. Replenish content of your position notebook.	
	c)	Restore facility to stand-by readiness.	
	d)	Inventory facility equipment as applicable.	

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TECHNICAL SPECIALIST CHECKLIST

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JIC	DATE:	PAGE OF
Time	Com	ments
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Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

			 Coordinate and supervise the activities of the JIC administratity personnel. 	ve
Resp	onsibi	lity/Ac	tivity	<u>✓</u>
1.	Coord	linate f	acility access and support.	
	a)	Conta	act Raleigh Convention and Conference Center personnel.	а
		1)	Request access to the News Media Briefing Area (Room F) and the JIC equipment storage area across from Room F.	
		2)	Request that a Raleigh City Police Officer provide security at the entrance to the News Media Briefing Area, Room F.	
		3)	Request furniture and sound equipment be set up in the News Media Briefing Area per Attachment 11.	
		4)	Contact the TeleCommunications Help Desk to request personnel to pull phone cables in the News Media Briefing Area, Room F.	
	b)	Conta perso	act Progress Energy Building (PEB) Corporate Facilities nnel.	
		1)	Request access to rooms 1112A&B and 1113A and the JIC equipment storage area.	
		2)	Request that PEB Corporate Facilities or Security personnel provide a security guard at the entrance to PEB 1112A.	
		3)	Request furniture be set up in PEB 1112A&B and 1113A JIC Command Room per Attachment 10.	
2.	Assur	ne the	position of Administrative Coordinator.	
	a)		in on the ERO sign-in board, JIC Sign-In Log and obtain on badge.	
	b)	Perfor	rm proper relief of the currently staffed position.	
	c)	Annou	unce that the position is filled to personnel who are present.	
3.	Mainta	in a lo	g of activities (Attachment 4, Sheet 4 of 4).	

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Resp	onsibi	lity/Activity	<u>√</u>
4.		re the facility and its equipment are properly set up and functional ttachment 9.	
	a)	Using ERFIS time from the EOF, synchronize clocks in the JIC Command Room and the News Media Briefing Area.	
	b)	Tune televisions to major and local networks and CNN.	
	c)	Tune radio/cassette recorders to stations that should participate in the Emergency Alert System (EAS) messages (refer to the Harris Plant Safety Information brochure or calendar for station listings).	
5.	Direct	security efforts for the Joint Information Center.	
	a)	Request Security lock out other areas in Progress Energy Building.	
	b)	Instruct Security to limit access to the JIC Command Room (1112A) to only Progress Energy, State, County, NRC, FEMA, INPO and ANI personnel.	
	c)	Instruct Security to contact you in the JIC Command Room if an individual desiring access does not have proper identification.	
	d)	Instruct Security to sign in relief personnel and direct them to the Administrative Coordinator upon arrival.	
6.	Super	vise the activities of the Administrative Assistants.	
7.		de draft news releases to the JIC Director received via the nistrative Assistant's fax machine (if applicable).	
8.	Log a	nd provide approved news releases to the Admin. Assistants for	
9.	Log a messa issue.	nd provide Emergency Notification Forms, news releases, EAS ages and other information to the Administrative Assistants for	
10.		the Media Badging Specialist of JIC activation time, news media g times and changes in the emergency classification level.	

Resp	onsibi	lity/Activity	<u>✓</u>
11.		te and maintain the News Release/News Media Briefing and Facility ation portions of the status boards.	
12.		dinate shift relief and turnover schedule activities for the JIC Public nation staff with the Administrative and Logistics Manager.	
13.	Sche	dule times and locations for meals for JIC personnel.	
14.	Termination of the emergency.		
	a)	Provide all logs and records to the Company Spokesperson.	
	b)	Replenish content of your position notebook.	
	c)	Restore facility to stand-by readiness.	
	d)	Inventory facility equipment as applicable.	

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JIC	DATE:	F	PAGE	OF
Time	(Commen		
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Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

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ADMINISTRATIVE ASSISTANT CHECKLIST

Posit	ion Fu	nction: Provide administrative services and supplies to JIC personnel.	
Resp	onsibil	lity/Activity	<u>~</u>
1.	Assur	ne the position of Administrative Assistant.	
	a)	Sign in on the ERO sign-in board, JIC Sign-In Log and obtain position badge.	
	b)	Ensure personnel in the JIC Command Room have signed in on the ERO sign-in board, JIC Sign-In Log (Attachment 12) and obtained position badge.	
	c)	Assist with facility set-up as needed.	
	d)	Perform proper relief of the currently staffed position.	
	e)	Announce that the position is filled to personnel who are present.	
2.	for ea	elete the News Release Distribution Log (Attachment 5, Sheet 3 of 3) ch news release, EAS message, Emergency Notification Form and documents distributed.	
	a)	Call EOF Admin Team to verify and document the receipt of and distribute any news releases that have been made prior to JIC activation.	
3.	Ensur	e the fax and copiers are in place and operating.	
	a)	Program fax and copiers for correct time and date (use reference manual).	
	b)	Provide information received on the fax to the Administrative Coordinator and distribute as instructed.	
4.	Distrib	oute copies of ALL approved news releases.	
	a)	Deliver and/or fax adequate copies of each news release to the Media Badging Specialist.	
	b)	Post copies of approved news releases in the JIC Command Room.	
5.	Distrib	oute clerical supplies in the JIC as necessary.	

ADMINISTRATIVE ASSISTANT CHECKLIST

Resp	<u>onsibi</u>	lity/Activity	<u>✓</u>
6.	Requ	est any materials or supplies from the Administrative Coordinator.	
7.	Term	ination of emergency.	
	a)	Provide all logs and records to the Company Spokesperson.	
	b)	Replenish content of your position notebook.	
	c)	Restore facility to stand-by readiness.	
	d)	Inventory facility equipment as applicable.	

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N EWS	RELEASE	DISTRIBUTION LOG
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Date:	
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COMPLETE THIS ATTACHMEN	T FOR EACH	ITEM DISTR	IBUTED							
REQUIRED DISTRIBUITION			(Place II	NITIALS and	DOCUME indicate TI		ents are distr	ibuted)		
EOF FAX TO:	PROG ENE NEWS R No.	RGY ELEASE	STA NEWS R No	ELEASE	OTH NEWS R Agency No		EA MESS No	AGE	EMERO NOTIFIO FO No.	CATION RM
NRC Region NRC Washington			N N		N		N/ N/		- N	A A
EOF HAND DELIVER TO:										
ERM Emerg. Comm. To JIC NRC			N N		N N		N/ N/		N N	A A
JIC HAND DELIVER TO:	Initials	Time	Initials	Time	Initials	Time	Initials	Time	Initials	Time
Progress Energy JIC Staff · State Admin. Staff (2) Media Badging Specialist			N			A	N.			Á
Counties NRC	25 cc	opies	25 CO	ppies A		opies A	N _A			A A I
FEMA Media (3)				A A		IA IA	N.			IA IA
Industry Personnel (3)		<u> </u>		Α	N	IA	N.	A		ĪA .

⁽¹⁾ Company Spokesperson, JIC Director, Technical Specialist, Public Information Coordinator, Administrative Coordinator receive the Emergency Notification Forms (ENFs). The Public Information Specialists DO NOT receive the ENFs.

PEP-250

⁽²⁾ Coordinate distribution in the JIC with State clerical personnel to avoid duplication.

⁽³⁾ Identified by the JIC Director (request assistance from Corporate Communications for these distributions if necessary).

MEDIA BADGING SPECIALIST CHECKLIST

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	ition Fu		: Control access to the media briefing area and distribute				
Resi	nonsih	ilitv/Δc	tivity	✓			
1.	oonsibility/Activity Assume the position of Media Badging Specialist.						
	a)		in on the ERO sign-in board, JIC Sign-In Log and obtain on badge.				
	b)	Perfo	rm proper relief of the currently staffed position.				
	c)	Anno	unce that the position is filled to personnel who are present.				
2.	Main	tain a Id	og of activities (Attachment 6, Sheet 3 of 3).				
	a)		all non-JIC personnel entering the News Media Briefing Area the JIC Sign-In Log (Attachment 12).				
3.	Set u	Set up materials and facilities.					
	a)		p the News Media Briefing Area and Media Badging table Attachments 9 and 11.				
	b)	Assis	Assist with facility set-up as needed.				
	c)		Place one copy of each brochure/information (other than news release) at each spokesperson's seat on stage.				
	d)	Obtain the Spokesperson Briefing Attendance Form from the Company Spokesperson and distribute as follows:					
		1)	Place one copy on the podium.				
		2)	Place a copy at the spokesperson's seat on stage.				
		3)	Make copies available for media and other representatives attending the briefing.				
4.			bered badge to news media personnel entering the facility them to maintain the badge visible.				

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Attachment 6 Sheet 2 of 3

MEDIA BADGING SPECIALIST CHECKLIST

Resp	<u>onsibi</u>	lity/Activity	✓			
5.	Provide instructions to security.					
	a)	Instruct the Raleigh Police Officer to limit access to the News Media Briefing Area to Progress Energy, State, County, NRC, FEMA, INPO, ANI and badged media personnel.				
	b) Instruct the Raleigh Police Officer to direct unbadged media personnel desiring access into the News Media Briefing Area to proceed to the Media Badging table.					
	c)	Instruct the Raleigh Police Officer that the Spokesperson wearing a position badge from the JIC Command Room is allowed access into the News Media Briefing Area without providing additional identification.				
6.	Provide information packages to the media upon request.					
7.	Distribute and post copies of Progress Energy news releases.					
8.	Inform the news media of briefing times.					
9.	Post emergency classifications in the News Media Briefing Area, provided briefings are not in progress.					
10.	Requ	est any materials or supplies form the Administrative Coordinator.				
11.	Leave Security in charge of the Media Badging table if it becomes necessary to leave the area.					
12.	Termi	ination of the emergency.				
	a)	Provide all logs and records to the Company Spokesperson.				
	b)	Replenish content of your position notebook.				
	c)	Restore facility to stand-by readiness.				
	d) Inventory facility equipment as applicable.					

MEDIA BADGING SPECIALIST CHECKLIST

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JIC	DATE:		PAGE	OF
Time		Comm		
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Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

PUBLIC INFORMATION COORDINATOR CHECKLIST

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Posit rumo	ion Fu r contro	nction: Ensure information approved for release is coordinated with Sol and public information personnel to prevent conflicting reports.	State		
Resp	onsibi	lity/Activity .	<u>✓</u>		
1.		me the position of Public Information Coordinator.			
	a)	Sign in on the ERO sign-in board, JIC Sign-In Log and obtain position badge.			
	b)	Assist with facility set-up as needed.			
	c)	Perform proper relief of the currently staffed position.			
		Obtain a briefing of current conditions and activities.			
		2) Conduct a team briefing prior to shift turnover.			
	d)	Announce that the position is filled to personnel who are present.			
2.	Maint	ain a log of activities (Attachment 7, Sheet 3 of 3).			
3.	Supervise the activities of the JIC Public Information Specialists.				
	a)	Ensure the JIC Public Information Specialists' work areas are equipped with the necessary equipment and materials.			
	b)	Following JIC facility briefings, brief the Public Information Specialists as appropriate.			
4.	Mana	age rumor control activities.			
	a)	Obtain responses to telephone inquiries.			
	b)	Provide information on rumors, inaccuracies and recurring questions to the Technical Specialist.			
	c)	Periodically coordinate with the State Lead Rumor Control individual.			
	d)	Provide names and numbers of callers requesting extensive technical information to the Company Spokesperson for resolution.			
	e)	Refer non-English speaking callers to the Customer Service Center for assistance.			

PUBLIC INFORMATION COORDINATOR CHECKLIST

Resp	<u>onsibi</u>	lity/Activity	\checkmark
5.	Monitor news media briefings; take an available cell phone or establish communications with the Administrative Coordinator upon arrival.		
6.	Maintain posted information for the Public Information Specialists.		
7.	Request any materials or supplies from the Administrative Coordinator.		
8.	Termination of the emergency.		
	a)	Provide all logs and records to the Company Spokesperson.	
	b)	Replenish content of your position notebook.	
	c)	Restore facility to stand-by readiness.	
	d)	Inventory facility equipment as applicable.	

PUBLIC INFORMATION COORDINATOR CHECKLIST

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JIC	DATE:	PAGE OF
Time	. Comm	ents
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	1	

Upon relief or termination of the emergency, ensure that the log is completed by checking the log for completeness, then printing and signing your name in the comments section.

PUBLIC INFORMATION SPECIALIST CHECKLIST

74 m t

Posit	ion Fu	nction	: Staff telephone lines to respond to calls from the media and pu	blic.
Resp	onsibil	itv/Act	iivitv	<u>✓</u>
1.		•	position of Public Information Specialist.	
	a)	_	n on the ERO sign-in board, JIC Sign-In Log and obtain on badge.	
	b)	Assist	with facility set-up as needed.	
	c)	Perfor	m proper relief of the currently staffed position.	
	d)	Annou	unce that the position is filled to personnel who are present.	
2.	Prope	rly ans	wer telephones.	
	a)		ain a log of calls received from the media and public hment 8, Sheet 3 of 3).	
	b)	Provici inquiri	le only information from approved sources to respond to es.	
		1)	Safety information calendar/brochure or other HNP brochures.	
		2)	Event board.	
		3)	Other JIC status boards.	
		4)	News releases.	
		5)	Formal facility briefings.	
		6)	Public Information Coordinator briefings.	
	c)	Reque answe	est call backs for inquiries that can not be immediately ered.	
	d)		le contact names, numbers and inquiry information to the Information Coordinator for unknown answers to technical ons.	
	e)	Refer number	off-site questions to the State media/public inquiry telephone er.	

PUBLIC INFORMATION SPECIALIST CHECKLIST

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Resp	onsibi	ity/Activity	✓		
3.	DOs and DON'Ts				
	a) Don't speculate.				
	b)	Don't elaborate.			
	c)	Don't discuss protective action recommendations. Don't use acronyms.			
	d)				
	e)	Do provide only the information requested.			
	f)	Do keep answers brief and simple. Someone else is attempting to call in.			
	g)	Do be friendly, patient, firm.			
	h)	Do provide responses in non-technical terms.			
4.		e the Public Information Coordinator on rumors, inaccuracies and ing questions.			
5.	•	est any materials or supplies from the Public Information linator.			
6.	Termi	nation of the emergency.			
	a)	Provide all logs and records to the Company Spokesperson.			
	b)	Replenish content of your position notebook.			
	c)	Restore facility to stand-by readiness.			
	d)	Inventory facility equipment as applicable.			

Fire a Harry

Attachment 8 Sheet 3 of 3

PUBLIC INFORMATION SPECIALIST CHECKLIST

Public/Media Information Log				
Date:	Date: Public Information Specialist:			
Time:	Caller's Name: Affiliation/Location: Phone #			
Brief Description of Question:				
Brief Answer Provided:				
Time:	Caller's Name: Affiliation/Location: Phone			
Brief Description of Question: Brief Answer Provided:				
Time:	Caller's Name:	Affiliation/Location:	Phone #:	
Brief Description of Question:				
Brief Ans	wer Provided			

JIC FACILITY SET-UP GUIDELINES

W. C. W.

JIC Command Room Set-Up

5. 42.

- 1. Set-up the JIC Command Room (1112A, 1112B, and 1113A) and the News Media Briefing Area (Raleigh Convention and Conference Center, Room F) per the illustrations in Attachments 10 and 11.
 - a) Obtain 2 copy machines from the JIC equipment storage area and place them in 1112A and 1113A per the illustrations in Attachment 10.
 - b) Obtain a fax machine from the JIC equipment storage area and place it at the Progress Energy Administrative Assistants' work station in 1112A per the illustration in Attachment 10.
 - c) Obtain the **JIC Director's computer and printer** from the **JIC equipment** storage area and place it at the **JIC Director's work station** in **1112B** per the illustration in **Attachment 10**.
 - d) Obtain radio/cassette recorders from the JIC equipment storage area and place in position per illustration in Attachment 10. Tune to radio stations that should participate in the Emergency Alert System (EAS) messages (refer to the Harris Plant Safety Information brochure or calendar for station listings).
 - e) Tune ceiling-mounted televisions in the JIC Command Room to local networks and CNN.
 - f) Obtain **supplies** (bins, form holders, status boards, sign-in boards, easels, procedures, etc.) for the JIC Command Room from the JIC equipment storage area.
 - 1) Each bin for the JIC Command Room is labeled with the corresponding table letter per the illustration in **Attachment 10.**
 - 2) Remove and set-up the telephone sets, cables, line cords, position table nameplates, and other materials for each of the JIC positions.
 - 3) Faxes and modems do not have telephone sets. These items have a telephone line cord labeled with their corresponding telephone number and jack location number.
- 2. Connect telephones to the cords and wall jacks.
 - a) The silver wall plates, located in various locations throughout the room, are labeled to correspond with the letter on the storage bin and on the table per the illustrations in Attachment 10.
 - b) To connect the telephone, lift the silver wall plate and pull the telephone cable from the wall.
 - c) Telephone extension cables stored in the bins are keyed to match the silver wall plate label. Connect the extension cables to the wall cables and secure the connection with the Velcro strip from the bin.

- d) Each telephone is labeled with a table letter, jack number and extension number. Connect the telephones from the storage bin to the appropriate jack on the extension cable.
 - As an example: The telephone set for Table D jack #1 will be labeled D1. Jack locations are numbered sequentially starting at #1 on the left of the extension cable.

7. 44.

- e) The connector jacks on the service end of the extension cables are also labeled with the extension number which corresponds to the telephone call number. Ensure that the extension number on the telephone matches that of the connector jack.
- 3. **Test equipment to verify operability** and report any equipment or set-up problems to the Administrative Coordinator.

News Media Briefing Area Set-Up

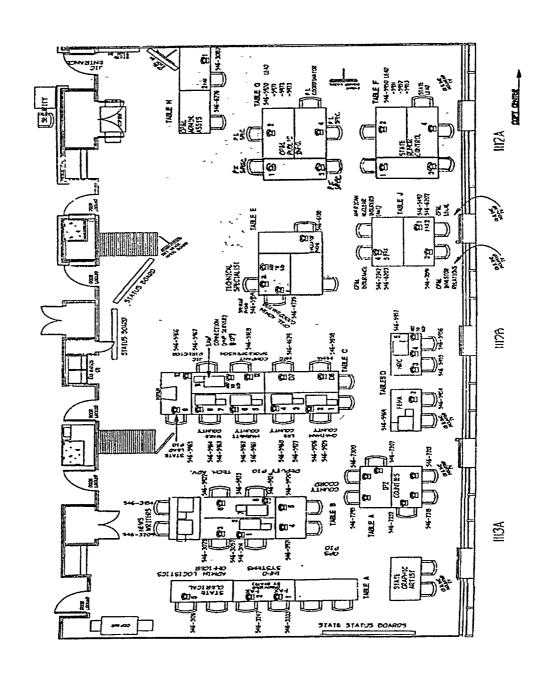
ے واعدہ مع

- 1. Obtain the necessary bins, telephone sets, line cords, and other materials from the storage room across from Raleigh Convention and Conference Center, Room F. Materials include:
 - a) Media badges.
 - b) Media Sign-In Logs.
 - c) ERO log forms.
 - d) Brochures (safety information, plant, lake, Q&A, student).
 - e) Media handbooks.
 - f) Video clips.
 - g) Easels (place 2 easels centered on the back of the stage).
 - h) Plant diagrams and Illustrations (place the System Chart and the EPZ Map on the easels per the illustrations in Attachment 11. Stack the others against the wall at the rear of the EPZ Map).
 - i) Agency table nameplates for the stage tables.
 - j) "Media Phones" nameplate to be placed at the media telephone table.
 - k) "Media Must be Badged Here" nameplate to be placed at the Media Badging Specialist's table.
- 2. **Telephone line cords and telephone sets** are labeled as CC2 through CC12 in addition to the extension numbers.
 - a) Connect the telephone sets directly to the line cords per the illustrations in **Attachment 11.**
 - b) Connect the fax machine to the CC3 at the State Media Center table (the fax machine does not have an additional telephone set).
- 3. **Test equipment to verify operability** and report any equipment or set-up problems to the Administrative Coordinator.

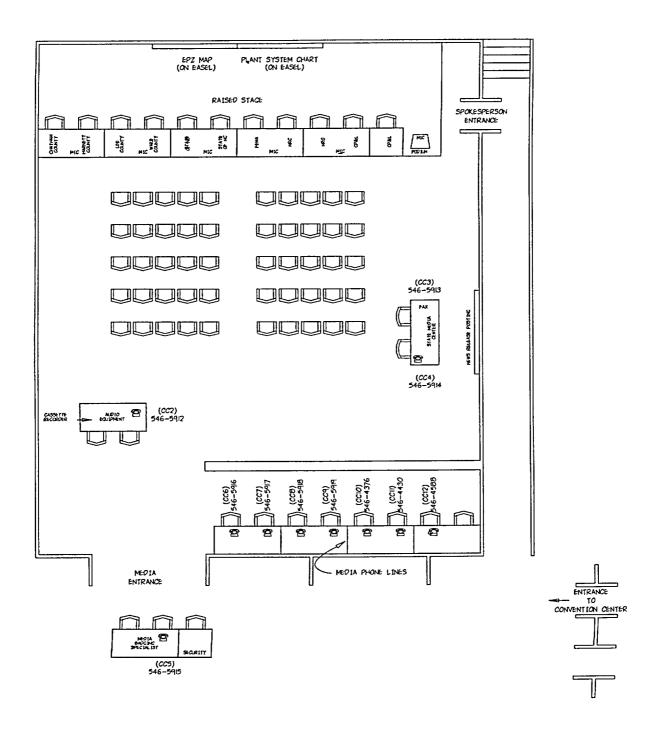
JIC COMMAND ROOM PROGRESS ENERGY BLDG. (PEB), 11TH FLOOR

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News Media Briefing Area Raleigh Convention and Conference Center (RCCC), Room F



		Sheet For
, ,	JIC SIGN-IN LOG	
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	Date:	

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(1) Only Progress Energy personnel in the JIC Command Room need to provide a SSN.

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Revision Summary of PEP-250, Rev. 10

Changed "CP&L" to "Progress Energy" in various sections of the procedure. Changed "Rev. 9" to "Rev. 10"

Page 1

Added "CP&L" logo.

Page 2

Removed "CP&L" from Attachment 10 description.

Page 8, after section 7.c.

Added,

NOTE: If tec

If technical expertise is required for the Pre-News and/or News Media Briefing conferences inform the Technical Specialist position of his/her participation.

Page 12

Changed "Bag phone for Public Information Coordinator" to "Available cell phone or equivalent for Public Information

Coordinator"

Page 14, after

Added,

section 5

NOTE:

If the Technical Specialist position will be a part of the Pre-News and/or News Media Briefing Conferences

receive a turnover of activities.

Page 17, after section 4.d.

Added,

NOTE:

Based on the needs of the Company Spokesperson

the Technical Specialist may or may not be a part of the Pre-News and/or News Media Briefing

Conferences.

Page 31, section

5

Changed, "Monitor news media briefings; take bag phone; give phone number to Administrative Coordinator" to "Monitor news

media briefings; take an available cell phone or establish

communications with the Administrative Coordinator upon arrival."

Page 38

Removed "CP&L" from the attachment title.



CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE:

Plant Emergency Procedure

NUMBER:

PEP-342

TITLE:

Core Damage Assessment

Table of Contents

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3.0 PROCEDURE3
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1.0 PURPOSE

The purpose of this procedure is to provide guidance for performing core damage assessments during an emergency at the HNP. The HNP DAMAGE program is designed to be used in conjunction with this procedure.

1.

2.0 INITIATING CONDITIONS

1. An emergency has been declared.

2. Whenever there are indications of core damage or when events require the estimation of the type and amount of core damage.

3.0 PROCEDURE

3.1 Determine Appropriate and Available Assessment Methods

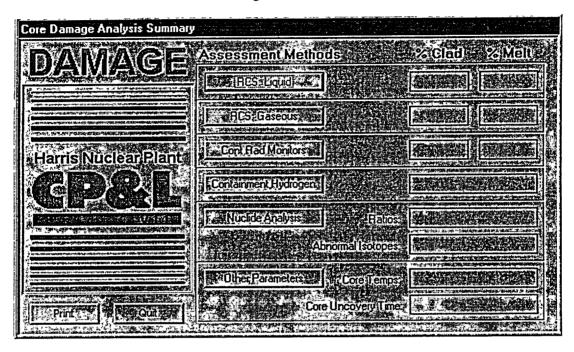
- 1. The magnitude and type of event, transport mechanism and time after shutdown will be influencing factors on the method(s) utilized to determine the extent of core damage. Damage estimates can be developed using one or more methods as they become available or applicable.
- 2. Choose the assessment method(s) most appropriate for the existing conditions. Methods available for assisting in the determination of the extent of core damage include the following:
 - a. Isotopic Liquid Concentration Analysis (Section 3.4)
 - b. Isotopic Gaseous Concentration Analysis (Section 3.5)
 - c. Containment Radiation Analysis (Section 3.6)
 - d. Containment Hydrogen Analysis (Section 3.7)
 - e. Nuclide Ratio and Presence of Abnormal Isotopes Analyses (Section 3.8)
 - f. Core Exit Temperatures and Core Uncovery Time Analyses (Section 3.9)

3.2 Start Up the Core Damage Application

- 1. Start the computer.
- 2. Start DAMAGE program A shortcut Icon labeled DAMAGE v1.1 should be located on the desktop. If not, locate the program CoreDamage.mdb on the Y Drive at Y:\Access Databases\Shared\CoreDamage.
- 3. If the computer does not operate or the DAMAGE program will not run, use another computer (application disks are located in the TSC AAT Cabinet).

3.3 Summary Screen

1. The summary screen shows the application version and offers the user options to direct program flow. Results of any completed assessment methods are provided to assist in determining an overall best estimate of the amount of core damage.



- 2. Select the assessment method appropriate for the available conditions and information. Available methods are as follows:
 - a. RCS Liquid
 - b. RCS Gaseous
 - c. Cont Rad Monitors
 - d. Containment Hydrogen
 - e. Nuclide Analysis
 - f. Other Parameters
- 3. Select 'Print' for a summary report of the items listed on the main screen.

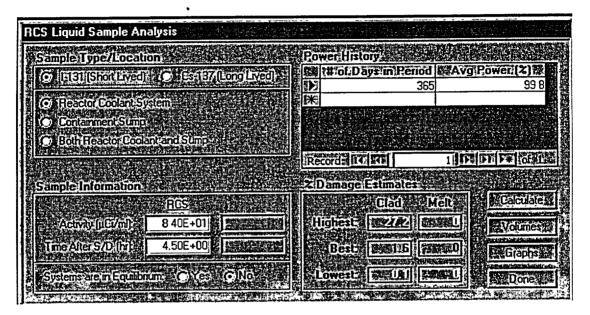
NOTE: Selecting 'Quit' will clear all tables and fields of entered data before closing the application. Subsequent start-up will begin a new session.

4. Select 'Quit' to close the program and quit Microsoft Access.

3.4 <u>Isotopic Liquid Concentration Analysis</u>

والمخديجة والمختلج

The RCS sample analysis estimation compares a corrected liquid fission product concentration to plant specific expected core damage curves. RCS liquid samples are required to be completed within 3 hours of the time the decision to obtain the sample has been made. It is not typically useful to attempt to determine an amount of core damage using this method until the plant has been stabilized.



1. Enter the required values.

a. Sample Type/Location

- (1) Sample type will be determined by the information available from Chemistry. Typically the long lived isotope is masked for several days following reactor shutdown.
- (2) Liquid samples may be from the Reactor Coolant System, Containment Sump or both.

b. Sample Information

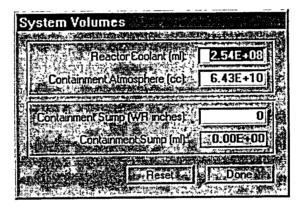
- (1) Activity for the sample.
- (2) Time after shutdown (time in hours from reactor shutdown to when the sample is drawn from the system).
- (3) System equilibrium status. Compensates for activity located throughout both systems whenever only one sampled location has been obtained.

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3.4 <u>Isotopic Liquid Concentration Analysis</u> (continued)

c. <u>Power History</u>

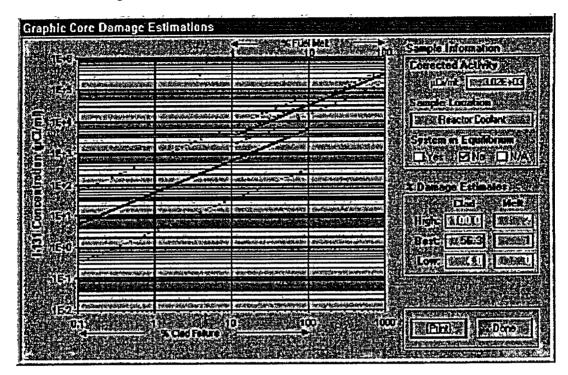
- (1) Input the most recent period first (record #1).
- (2) For short-lived isotopes, the total duration of the operational periods should extend at least 30 days (~six half-lives).
 - Variations in steady state power should be limited to $\pm 10\%$ within each of the operational periods.
- (3) For long-lived isotopes, the total duration of the operational periods should extend throughout the cycle.
 - Variations in steady state power should be limited to $\pm 20\%$ within each of the operational periods.
- 2. Select 'Calculate' to determine damage values when all required information has been entered.
- 3. Select 'Volumes' to check or change the system volumes used by the application.



- a. Reactor Coolant default volume assumes the vessel and pressurizer are full.
- b. Containment Sump The minimum containment sump level (WR) is 128". Below this value the water has not entered the recirc sump and an RHR sample would not be appropriate. 0" is used until the level reaches 128" for containment sump damage estimations.
- c. Select 'Reset' to restore the default volumes.
- d. Once desired entries are made select 'Done' to return to the RCS window.

3.4 <u>Isotopic Liquid Concentration Analysis</u> (continued)

4. Select 'Graphs' to provide an illustration of the sample results versus the damage estimate lines for the selected isotope.

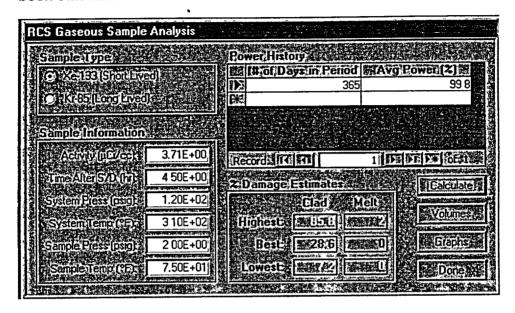


- a. Key data is displayed in user disabled fields.
- b. Select 'Print' to print a report for this method.
- c. Select 'Done' and return to previous window.

3.5 Isotopic Gaseous Concentration Analysis

The RCS sample analysis estimation compares a corrected gaseous fission product concentration to plant specific expected core damage curves. RCS gaseous samples are required to be completed within 3 hours of the time the decision to obtain the sample has been made. It is not typically useful to attempt to determine an amount of core damage using this method until the plant has been stabilized.

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- Enter the required values.
 - a. <u>Sample Type</u> Sample type will be determined by the information available from Chemistry. Typically the long lived isotope is masked for several days following reactor shutdown.
 - b. <u>Sample Information</u>
 - (1) Activity for the sample.
 - (2) Time after shutdown (time in hours from reactor shutdown to when the sample is drawn from the system).
 - (3) System Pressure and Temperature Obtained from ERFIS archives if not recorded when sample is drawn.
 - (4) Sample Pressure and Temperature Obtained from Chemistry when sample is drawn.

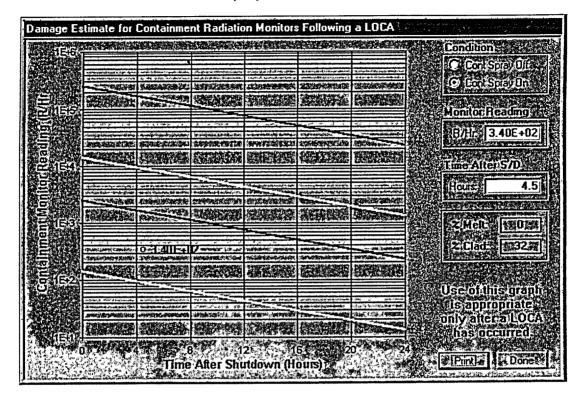
3.5 <u>Isotopic Gaseous Concentration Analysis</u> (continued)

c. Power History

- (1) Input the most recent period first (record #1).
- (2) For short-lived isotopes, the total duration of the operational periods should extend at least 30 days (~six half-lives).
 - Variations in steady state power should be limited to $\pm 10\%$ within each operational of the periods.
- (3) For long-lived isotopes, the total duration of the operational periods should extend throughout the cycle.
 - Variations in steady state power should be limited to $\pm 20\%$ within each of the operational periods.
- 2. Select 'Calculate' to determine damage values when all required information has been entered.
- 3. See section 3.4 for explanation of 'Volumes' and 'Graphs' buttons.

3.6 Containment Radiation Analysis

Containment radiation monitor analysis estimation compares the monitor reading with an expected reading for a given core damage scenario. The application takes in account containment spray status and time after shutdown.

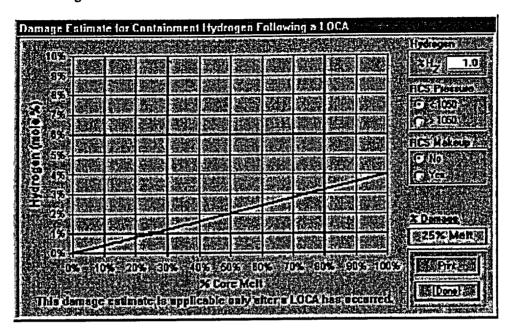


NOTE: Red lines are used to illustrate the upper and lower melt thresholds (100% to 1%). Yellow lines are used to illustrated clad upper and lower thresholds (100% to 1%).

- 1. Enter required values.
 - a. Condition whether sprays are on or off
 - b. Monitor Reading
 - c. Time after shutdown
- 2. Select 'Print' to print a report for this method.
- 3. Select 'Done' and return to previous window.

3.7 Containment Hydrogen Analysis

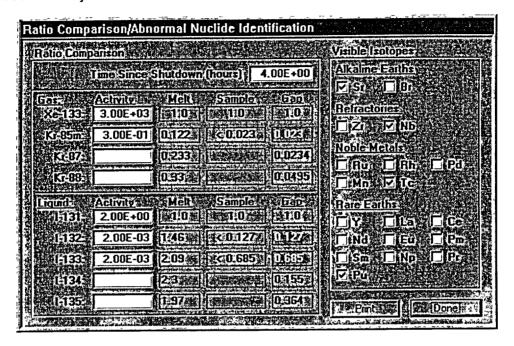
Containment Hydrogen analysis (taken from hydrogen monitor or dry sample analysis) compares the monitor reading with an expected reading for a given core damage scenario.



- Enter or select the required inputs.
 - a. % Hydrogen
 - b. RCS Pressure
 - c. RCS Makeup (any source of cold water injection)
- 2. Select 'Print' to print a report for this method.
- 3. Select 'Done' and return to previous window.

3.8 Nuclide Ratio and Presence of Abnormal Isotopes Analyses

This window estimates core damage in two ways. Either by the ratio of nuclides to each other or by the presence of rare isotopes. Results will be qualitative (Clad or Melt) rather than quantitative but may assist in the overall estimate when used in conjunction with the other methods.

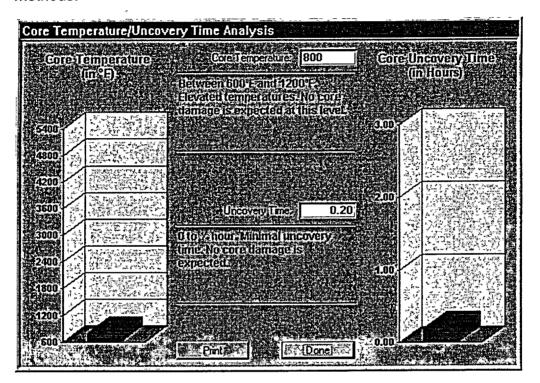


1. Enter required values.

- a. Time since shutdown (time in hours from reactor shutdown to when the sample is drawn from the system).
- b. Gaseous Samples At a minimum, Xe-133 and one other Noble Gas is required to provide indication of the type of damage.
- c. Liquid Samples At a minimum, I-131 and one other Halogen is required to provide indication of the type of damage.
- d. Select (check) the presence of abnormally high concentrations of the listed isotopes which may be indicative of core melt.
- 2. Select 'Print' to print a report for this method.
- 3. Select 'Done' and return to previous window.

3.9 Core Exit Temperatures and Core Uncovery Time Analyses

Core temperature/Core uncovery time can be used to estimate the amount of core damage. Results will be qualitative (Clad or Melt) rather than quantitative but may assist in the overall estimate when used in conjunction with the other methods.



- 1. Enter required values
 - a. Core Temperature based on core exit thermocouples.
 - b. Core Uncovery Time (RVLIS Full Range < 39%).
- 2. Select 'Print' to print a report for this method.
- 3. Select 'Done' and return to previous window.

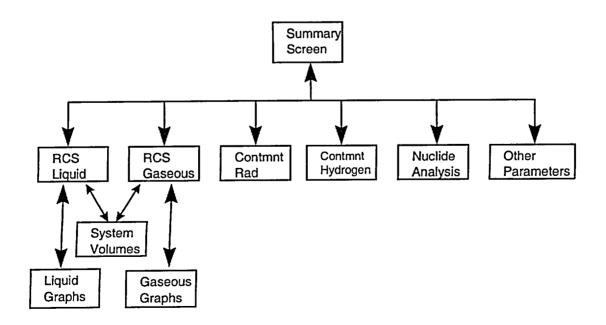
3.10 Reports

- 1. Individual Reports for individual methods are printed from each of the analysis windows.
- 2. The Core Damage Summary Analysis is printed from the summary (main) window. It provides a summary of the methods used for the core damage analysis. To complete the report the items must be completed:
 - a. A determination of the best estimate of the type and quantity of core damage based upon the available indications.
 - b. A determination of the NRC numeric representation of the core condition category.
 - c. Name, date and time for when the report is completed.
- 3. Reports should be provided to the Site Emergency Coordinator (SEC), Technical Analysis Director (TAD), the Radiological Control Manager (RCM), and to the Radiological Control Director (RCD).

4.0 GENERAL

4.1 Basic Program Flow Diagram

DAMAGE, Version 1.1 is a Microsoft Windows based application designed in Access that contains standard user interfaces. Instructions are not provided in basic computer operations in the Windows® environment. The user must be familiar with these to efficiently operate the program.



4.2 DAMAGE Program Use

The program is to be used to estimate the type and amount of core damage. The primary purpose of these damage estimates are:

- 1. Used to confirm whether fuel barriers are breached.
- 2. To determine the potential quality (type) and/or quantity (%) of source term available for release in support of projected offsite doses.
- 3. To support the determination of radiological protection actions that should be considered for long term recovery activities.
- 4. Satisfy inquiries from local and federal government agencies and provide evidence that the utility understands the plant conditions.

4.3 Limitations of the DAMAGE Application

- 1. The program should be used by qualified personnel as a tool to estimate type and amount of core damage.
- 2. Other methods of estimating core damage should also be considered as time permits.

5.0 REFERENCES

1. EPM-601, Core Damage Assessment Technical Bases

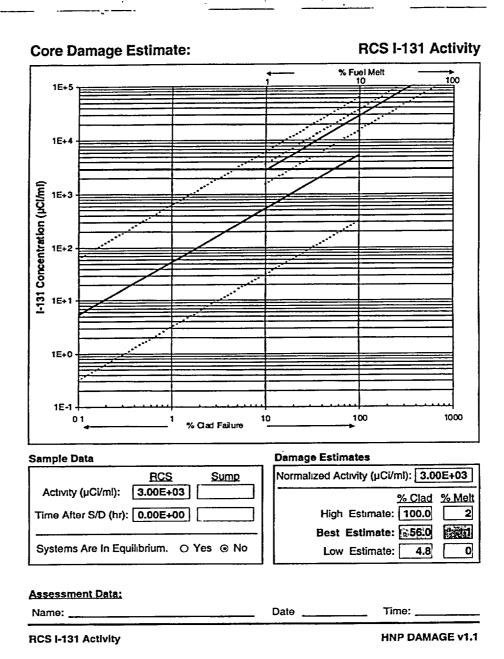
6.0 DIAGRAMS / ATTACHMENTS

- 1. Attachment 1, Sample Summary Report
- 2. Attachment 2, Sample RCS Sample Report

Sample Summary Report

Core Damage Estima	te:		Su	mmary	Analysis
Assessment Methods				% Clad	% Melt
RCS Liquid Analysis			RCS:	56.0	1
RCS Gaseuos Analysis	-			4.0	0
Containment Radiation Monitors*		 .		56	7
				13%	Melt
Containment Hydrogen Conc					
Isotopic Ratio/Abnormal Nucl	ide Analysis	Ratios:		Cladding Failure	
		Abnormal Isoto	pes:	5 of 19	Present
Other Plant Parameters/Indic	ations	Core Temps: Possib		Possible	e Rupture
	•	Core Uncovery 1	Uncovery Time: Fuel Melting		Melting
Analyst's Estimate: ☐ No Damage ☐ Claddi	ing Failure 🗆 🛭 F	Fuel Melt		Amount	
☐ No Damage ☐ Claddi	ng Failure				
	-	NRC Core Co	ondition	Category	: L
Degree of Degradation	Minor (<10%)	Intermediate (10%-50%)		lajor 50%)	
No Fuel Damag	ge 1	1		1	
Cladding Fallu		3		7	
Fuel Overheat Fuel Melt	5 8	9		10	
Generated By:					
Name: Date: Time:					
HNP DAMAGE v1			MAGE v1.1		

Sample RCS Sample Report



PEP-342 Revision Summary

Revision 3 implements version 1.1 of the DAMAGE software, which corrected the "high" values for the Containment DHRMs per NCR 51614/DCF2002P0999.

<u>Page</u>	Change Description
1	Added logo to title page
3	Section 3.2 - Updated to version 1.1 of DAMAGE software
	Updated location of the file (moved from C drive to Y drive)
4	Section 3.3.1 - Updated image to version 1.1 of DAMAGE software
8	Section 3.5 - Updated image to use more realistic values.
10	Section 3.6 - Updated image to version 1.1 of DAMAGE software
14	Section 4.1 - Updated to version 1.1 of DAMAGE software
16	Attachment 1 - Updated image to version 1.1 of DAMAGE software
17	Attachment 2 - Updated image to version 1.1 of DAMAGE software
All	Changed "PASS" to "RCS" throughout procedure
All	General clean-up and header format changes