

RADIOLOGICAL EMERGENCY PLAN

Revision Date: IP-7 PORC 2/15/84 (Issued FEB 29 1984 )

This log sheet must be retained as the last page of the Browns Ferry  
Implementing Procedures Document.

Reason for revision: See cover sheet.

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Inserted by: \_\_\_\_\_ Date Inserted: \_\_\_\_\_

<u>Pages to be Removed</u>			<u>New Pages to be Inserted</u>		
<u>Part</u>	<u>Page Number</u>	<u>Revision</u>	<u>Part</u>	<u>Page Number</u>	<u>Revision</u>
List of Effective Pages	1 of 8 2 of 8	2/14/84 2/9/84	List of Effective Pages	1 of 8 2 of 8	2/27/84 2/27/84
IP-7 Attachment 1	Cover Sheet 1 of 2 2 of 2	1/12/84 1/12/84 8/11/83	IP-7 Attachment 1	Cover Sheet 1 of 2 2 of 2	2/15/84 2/15/84 2/15/84

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TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT IMPLEMENTING PROCEDURES DOCUMENT

LIST OF EFFECTIVE PAGES

This List of Effective Pages must be retained with the Browns Ferry Nuclear Plant Implementing Procedures Documents.

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN		List of Effective Pages	1 of 8	02/27/84	
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			6 of 8	02/14/84	
			7 of 8	01/20/84	
			8 of 8	01/20/84	
			Table of Contents	Coversheet	07/06/83
				1 of 1	07/06/83
		IP-1		Preface	Coversheet
1 of 1	10/12/83				
IP-1			1 of 11	04/07/83	
			2 of 11	01/12/84	
			3 of 11	10/19/82	
			4 of 11	10/19/82	
			5 of 11	10/19/82	
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IP-2			Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
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IP-3			Coversheet	01/19/84	
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			2 of 2	01/19/84	

LIST OF EFFECTIVE PAGES (Con't)

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN (Cont'd)	IP-3	Table 1	1 of 1	10/12/83	
		Table 2	1 of 1	10/12/83	
	IP-4		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	01/19/84	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-5		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	04/07/83	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-6		Coversheet	01/19/84	
			1 of 1	04/22/82	
		Attachment 1		1 of 6	01/19/84
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				3 of 6	01/19/84
				4 of 6	11/10/83
				5 of 6	11/10/83
			6 of 6	01/19/84	
	IP-7		Coversheet	02/15/84	
			1 of 1	12/21/81	
		Attachment 1		1 of 2	02/15/84
			2 of 2	02/15/84	
	IP-8		Coversheet	01/12/84	
			1 of 4	01/12/84	
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			3 of 4	01/12/84	
			4 of 4	01/12/84	
		Attachment 1	1 of 1	06/06/83	
	IP-9		Coversheet	06/15/82	
			1 of 1	12/21/82	

PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number BFN IP-7  
 \* Unit No. N/A  
 Title BFN - REP Activation  
of the Operational Support  
Center  
 Reason For Revision Add names,  
delete name, & change  
phone numbers for SKM  
 Pages Affected Att 1 (pg 1 & 2)

History of Revisions (For DCU Use Only)

Approval Date	Affected Pages
2/15/84	/ 1,2 (Att. 1)
1/12/84	/ 1 (Att. 1)
8/11/83	/ 1,2 (Att. 1)
7/06/83	/ 1,2 (Att. 1)
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\* Is this change in response to an LER, IE Bulletin, NRC Inspection Report, OQAB audit, etc.? Yes  No  (If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document?  
 Yes  No  ; New instruction? Yes  No   
 (If yes to either question, a USQD is required.)

\* Is this a work plan initiated change?  Yes (Work Plan No. )  No

Fire Protection System involved? Yes  No  (If yes, review and signature of fire protection engineer is required.)

\_\_\_\_\_  
 Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes  No   
 (If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes  No  (If yes, review and signature of Public Safety Services Supervisor is required.)

\_\_\_\_\_  
 Public Safety Services Supervisor

J.M. Jackson 12/7/84  
 Prepared By Date

J. R. Pullin 12-15-84  
 PORC Chairman Date

[Signature] 12/7/84  
 Submitted By Date

J. R. Pullin 12-15-84  
 Plant Superintendent Date

Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
 (Note: If this is a new instruction or instruction deletion, document control will update the source document matrix.)

\*Revision

## ATTACHMENT 1

Contact as many people in each group as noted.

Message: "This is Browns Ferry. We have activated the REP.  
Please report to the Operations Support Center immediately."

<u>Initials</u>	<u>Time Contacted</u>	<u>Name</u>	<u>PAX</u>	<u>Dim</u>	<u>Home</u>	<u>Pager</u>
<u>INSTRUMENT MAINTENANCE (CONTACT 3)</u>						
_____	_____	Alton McCaleb	168/418	782/781	Athens -	232-6155 160
_____	_____	Gene Hartsfield	234/243	841/626	Athens -	232-7394 342
_____	_____	J. D. Thompson	234/243	841/626	Decatur -	355-7709 234
_____	_____	Guy V. Thompson	234/243	841/626	Decatur -	355-9470 172
_____	_____	Ken Montgomery	234/243	841/626	Rogersville -	247-0859 174
_____	_____	Ron Turberville	234/243	841/626	Athens -	232-2145 175
<u>ELECTRICAL MAINTENANCE (CONTACT 4)</u>						
_____	_____	Jim Fowler	411/211	888	Lexington -	757-4733 153
• _____	_____	Mike Jackson	407/307/145	799	Athens -	233-2995 207
_____	_____	John Killen	407/307/145	619/612	Florence -	766-4432 307
• _____	_____	Dennis White	407/307/145	799	Killen -	757-3414 147

\*Revision

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ATTACHMENT 1  
FEB 15 1984



ELECTRICAL MAINTENANCE (CONTACT 4)

<u>Initials</u>	<u>Time Contacted</u>	<u>Name</u>	<u>PAX</u>	<u>Dim</u>	<u>Home</u>	<u>Pager</u>
* _____	_____	Pete McLemore	407/307/145	619/612	Rogersville- 247-5317	145
_____	_____	Julian Bass	407/307/145	843	Rogersville- 247-0381	154
* _____	_____	Herman York	307/145	-	Florence - 764-5856	148
* _____	_____	Dennis Gillespie	276	655	Five Points- (615)852-4281	151

MECHANICAL MAINTENANCE (CONTACT 4)

_____	_____	John Whitt	310/301	620	Athens - 233-0740	310
_____	_____	Carlos Jones	114/310	620	Athens - 232-1837	201
_____	_____	Bobby Laurence	308/310	620	Lexington - 229-5933	186
_____	_____	John Beck	102/310	620	Town Creek - 685-2793	_____
_____	_____	Tom Marshall	310/301	620	Hartselle - 773-2815	206
_____	_____	Dale Taylor	206	618	Decatur - 353-4005	214

PSO (CONTACT 1)

_____	_____	Jim Thompson	394	820	Decatur - 355-9666	257
_____	_____	Duncan Massey	394	820	Huntsville - 852-8446	_____

\*Revision

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ATTACHMENT 1  
FEB 15 1984

RADIOLOGICAL EMERGENCY PLAN

Revision Date: IP-6 PORC 3/8/84 (Issued MAR 16 1984)

This log sheet must be retained as the last page of the Browns Ferry Implementing Procedures Document.

Reason for revision: See cover sheet

Inserted by: \_\_\_\_\_

Date Inserted: \_\_\_\_\_

<u>Pages to be Removed</u>			<u>New Pages to be Inserted</u>		
<u>Part</u>	<u>Page Number</u>	<u>Revision</u>	<u>Part</u>	<u>Page Number</u>	<u>Revision</u>
List of Effective Pages	1 of 8 2 of 8	2/27/84 2/27/84	List of Effective Pages	1 of 8 2 of 8	3/15/84 3/15/84
IP-6	Cover Sheet	1/19/84	IP-6	Cover Sheet	3/8/84
	1 of 1	4/22/82		1 of 1	3/8/84
Att. 1	1 of 6	1/19/84	Att. 1	1 of 2	3/8/84
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	4 of 6	11/10/83		2 of 2	3/8/84
	5 of 6	11/10/83	Att. 3	1 of 2	3/8/84
	6 of 6	1/19/84		2 of 2	3/8/84

TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT IMPLEMENTING PROCEDURES DOCUMENT

LIST OF EFFECTIVE PAGES

This List of Effective Pages must be retained with the Browns Ferry Nuclear Plant implementing Procedures Documents.

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			6 of 8	02/14/84	
			7 of 8	01/20/84	
			8 of 8	01/20/84	
			Table of Contents	Coversheet	07/06/83
				1 of 1	07/06/83
		IP-1		Preface	Coversheet
1 of 1	10/12/83				
IP-1			1 of 11	04/07/83	
			2 of 11	01/12/84	
			3 of 11	10/19/82	
			4 of 11	10/19/82	
			5 of 11	10/19/82	
			6 of 11	10/12/83	
			7 of 11	10/19/82	
			8 of 11	10/19/82	
			9 of 11	10/19/82	
			10 of 11	10/12/83	
			11 of 11	04/07/83	
IP-2			Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	02/04/83	
IP-3			Coversheet	01/19/84	
			1 of 2	01/19/84	
			2 of 2	01/19/84	



LIST OF EFFECTIVE PAGES (Con't)

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN (Cont'd)	IP-3	Table 1	1 of 1	10/12/83	
		Table 2	1 of 1	10/12/83	
	IP-4		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	01/19/84	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-5		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	04/07/83	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-6		Coversheet	03/08/84	
			1 of 1	03/08/84	
			Attachment 1	1 of 2	03/08/84
				2 of 2	03/08/84
			Attachment 2	1 of 2	03/08/84
				2 of 2	03/08/84
			Attachment 3	1 of 2	03/08/84
			2 of 2	03/08/84	
	IP-7		Coversheet	02/15/84	
			1 of 1	12/21/81	
			Attachment 1	1 of 2	02/15/84
			2 of 2	02/15/84	
	IP-8		Coversheet	01/12/84	
			1 of 4	01/12/84	
			2 of 4	01/12/84	
			3 of 4	01/12/84	
			4 of 4	01/12/84	
		Attachment 1	1 of 1	06/06/83	
	IP-9		Coversheet	06/15/82	
			1 of 1	12/21/82	

PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number IP-6  
 Unit No. 1,2,3  
 Title ACTIVATION OF THE TECHNICAL SUPPORT CENTER

History of Revisions (For DCU Use Only)

Approval Date	Affected Pages
3/08/84	/1,1 & 2 (Att. 1)
3/08/84	/1,2 (Att. 2)
3/08/84	/1,2 (Att. 3)
1/19/84	/1,2,3,6 (Att. 1)
12/08/83	/2 (Att. 1)
11/30/83	/6 (Att. 1)
11/10/83	/2,4,5 (Att. 1)
11/02/83	/2,4 (Att. 1)
10/12/83	/2,3 (Att. 1)
9/01/83	/1,2 (Att. 1)
8/11/83	/6 (Att. 1)
7/06/83	/5 (Att. 1)
	/

Reason For Revision Incorporate TEAM CONCEPT REQUESTED BY PLANT SUPERINTENDENT

Pages Affected All / pg 1 of 1 ; Attachment 1, pg 1 of 2 ; Attachment 2, pg 1 of 2 ; Attachment 3, pg 1 of 2

Is this change in response to an LER, IE Bulletin, NRC Inspection Report, Management/Supervisor Inspection, OQAB audit, etc.? Yes  No   
 (If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document? Yes  No  ; New instruction? Yes  No   
 (If yes to either question, a USQD is required.)

Is this a work plan initiated change? Yes (Work Plan No. )  No

Fire Protection System involved? Yes  No  (If yes, review and signature of fire protection engineer is required.)

NA  
 Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes  No   
 (If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes  No  (If yes, review and signature of Public Safety Services Supervisor is required.)

NA  
 Public Safety Services Supervisor

A. Chinn 12/28/84  
 Prepared By Date

R. Swindell 13/8/84  
 POC Chairman Date

A. Chinn 12/28/84  
 Submitted By Date

S.T. Jan 13/8/84  
 Plant Superintendent Date

Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
 (Note: If this is a new instruction or instruction deletion, document control will update the source document matrix.)

Revision

ACTIVATION OF THE TECHNICAL SUPPORT CENTER

1.0 PURPOSE

- 1.1 To provide technical and managerial support in the following disciplines or activities to the Site Emergency Director.

Operations Management  
Maintenance Management  
Technical Assessment Management  
Nuclear  
Chemical/Radiochemical  
Mechanical  
Electrical  
Communications  
Health Physics  
Instrumentation  
Computers  
Operations

\* 2.0 INSTRUCTIONS

- \* 2.1 When notified by the Shift Engineer or Site Emergency Director, the Shift Engineer's clerk will make the telephone calls required to activate the TSC by referring to Attachments 1, 2, or 3.
- \* 2.2 The Shift Engineer's clerk upon completing the call list reports its completion to the Shift Engineer. The completed call list will be given to the Site Emergency Director in the TSC.

ATTACHMENT 1 - TEAM 1

INSTRUCTIONS

If unable to contact team member from TEAM 1, then go to TEAM 2 (Attachment 2), then to the ALTERNATE list (Attachment 3)

Message: "This is Browns Ferry. We have activated the REP.  
Please report to the Technical Support Center immediately as the (POSITION)."

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>	
_____	Site Emergency Director	George Jones	212/221	701	350-7444	212	
_____	Operations Manager	Ray Hunkapiller	205/214	794	355-5667	204	
_____	Technical Assessment Manager	Bill Thomison	208	784	355-5443	208	
_____	Maintenance Manager	John Pittman	221/212	701	355-0230	221	
_____	REP Communicator	Terry Chinn	405/406	786	729-8505	141	
_____	Secretary	} NOTE: Call all three.	Betty Riley	221/212	701	729-1122	_____
_____	Secretary		Jacque Garner	221/212	701	233-0576	_____
_____	Secretary		Sandra Holland	405/406	787	233-2862	_____
_____	TSC Communicator	Bob Metke	179	783	232-8596	_____	
_____	MRC Communicator	R. G. Jones	446	874	232-3596	_____	
_____	Operations Specialist	A. L. (Smiley) Burnette	429/430	861	766-1929	130	
_____	Health Physicist	} NOTE: Call both	Allen Sorrell	209/274	757	767-6045	274
_____	Health Physicist		Ed Cargill	274/209	758	232-0643	209

\*Revision

Page 1 of 2  
BFN - IPD  
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Attachment 1  
MAR 8 1984

ATTACHMENT 1 - TEAM 1 (Continued)

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>
_____	Radiochemical Engineer	Ausie Clement	101/107	802	232-0300	101
_____	Reactor Engineer	Earl Nave	455/456	845	881-6810	184
_____	Instrument Engineer	Ron Burns	168	781	353-4992	168
_____	PSO Engineer	Leonard Bynum	394/395	819	539-5454	256
_____	PSS Supervisor	Ralph Jackson	266/246	822	757-3509	246
_____	Systems and Test Engineer	Roger McPherson	171/272	834	355-6518	272
_____	Electrical Engineer	Tom Cosby	207/235	797	232-8779	235
_____	Mechanical Engineer	Charlie Wages	206/241	881	383-8878	202
_____	Computer Engineer	Larry Johnson	418	782	233-0417	264
_____	Quality Engineer	Larry Jones	100/106	831	233-4848	106
_____	Information Officer	Bob Boyer	413	839	350-3820	104

\*Revision

BFN-IPD  
BFN, IP-6  
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MAR 8 1984



ATTACHMENT 2 - TEAM 2

INSTRUCTIONS

Contact members from this list if unable to reach TEAM 1 members. If unable to reach TEAM 2 member to to ALTERNATE list Attachment 3.

Message: "This is Browns Ferry. We have activated the REP. Please report to the Technical Support Center immediately as the (POSITION)."

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>
_____	Site Emergency Director	Jim Swindell	221/212	701	355-7277	103
_____	Operations Manager	Tommy Jordan	205/214	793	383-5868	129
_____	Technical Assessment Manager	Dwight Mims	171/272	834	355-9659	272
_____	Maintenance Manager	Johnny Miller	701/715	712	353-4375	259
_____	REP Communicator	Bill Roberts	100/106	623	232-7027	142
_____	Secretary	Glenda Harrison	178	810	729-6573	_____
_____	Secretary	Carolyn Martin	208/215	785	247-0983	_____
_____	Secretary	Bonnie Ferguson	241	790	766-6003	_____
_____	TSC Communicator	M. W. (Tink) Haney	206/241	790	233-0834	241
_____	NRC Communicator	E. G. Thornton	446	875	232-5952	_____
_____	Operations Specialist	Roy Smallwood	429/430	861	757-3992	_____
_____	Health Physicist	Herman Crowson	335/334	876	764-1381	334
_____	Health Physicist	Wayne Simpkins	457/458	759	232-7973	_____

NOTE:  
Call all  
three

NOTE:  
Call both

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BFD - IP-6  
Attachment 2

MAR 8 1984

\*Addendum

ATTACHMENT 2 - TEAM 2 (Continued)

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>
_____	Radiochemical Engineer	Jimmy Clark	443/436	621	533-2120	_____
_____	Reactor Engineer	Bill Williamson	455/456	845	757-5903	_____
_____	Instrument Engineer	Bob Irby	234	841	729-1439	161
_____	PSO Engineer	Lee Haygood	394/395	820	757-5794	_____
_____	PSS Supervisor	James Brazell	266/246	822	232-6003	178
_____	Electrical Engineer	Dwight Thompson	207/235	890	233/1773	216
_____	Systems and Test Engineer	Paul Romine	171/272	834	766-2550	_____
_____	Mechanical Engineer	Ed Cornelius	206/241	791	_____	_____
_____	Computer Specialist	Russel McNutt	264	856	232-2359	_____
_____	Quality Engineer	Jim Norris	100/106	833	355-4570	105
_____	Information Officer	<u>No alternate</u>				

\*Addendum

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 BFN-IPD  
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 Attachment 2  
 MAR 8 1984

ATTACHMENT 3 - ALTERNATES

INSTRUCTIONS

Use this list only if unable to reach TEAM 1 or TEAM 2 member.

Message: "This is Browns Ferry. We have activated the REP. Please report to the Technical Support Center immediately as the (POSITION)."

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>
_____	Site Emergency Director	John Pittman	221/212	701	355-0230	221
_____	Site Emergency Director	Ray Hunkapiller	205/214	794	355-5667	204
_____	Operations Manager	A. L. (Smiley) Burnette	429/430	861	766-1929	130
_____	Technical Assessment Manager	Jim Swindell	221/212	701	355-7277	103
_____	Maintenance Manager	Tom Cosby	207/235	797	232-8119	235
_____	REP Communicator	Jimmy Walker	405/406	865	232-9216	146
_____	TSC Communicator	John Nebrig	701	712	350-0790	268
_____	NRC Communicator	Carroll Rozear	405/406	788	355-4721	143
_____	Operations Specialist	R. G. Jones	446	874	232-3596	_____
_____	Operations Specialist	E. G. Thornton	446	875	232-5952	_____
_____	Health Physicist	John Corey	209	_____	744-7239	_____
_____	Radiochemical Engineer	Jim Shaw	436	621	381-6314	_____
_____	Reactor Engineer	Harold Stiles	454/455	893	232-6389	_____
_____	Electrical Engineer	Stan Solley	207/235	891	247-0256	_____

\*Addendum

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 Attachment 3  
 MAR 8 1984

ATTACHMENT 3 - ALTERNATES (Continued)

<u>Time Contacted</u>	<u>Position</u>	<u>Name</u>	<u>PAX</u>	<u>DIM</u>	<u>HOME</u>	<u>PAGE</u>
_____	Electrical Engineer	Walt Christopher	207	889	355-1810	_____
_____	Instrument Engineer	<u>No alternate</u>				
_____	PSO Engineer	Elmer Todd	394/395	820	232-7978	258
_____	Systems and Test Engineer	Joe Ely	171/272	834	729/1140	_____
_____	Mechanical Engineer	Pat Ebersole	206/241	791	543-6189	205
_____	Quality Engineer	Larry Parvin	309/409	801	2343-9570	107
_____	Quality Engineer	Russell Perry	100/106	623	729-8823	109/112
_____	PSS Supervisor	Glen Lard	266/246	822	766-8557	_____
_____	Computer Engineer	Wayne Lynch	264	856	233-0998	_____

\*Addendum

RADIOLOGICAL EMERGENCY PLAN

Revision Date: IP-1, IP-8, IP-9, IP-10 PORC 3/14/84  
 (Issued **MAR 26 1984**)

This log sheet must be retained as the last page of the Browns Ferry  
 Implementing Procedures Document.

Reason for revision: See cover sheets.

Inserted by: \_\_\_\_\_

Date Inserted: \_\_\_\_\_

<u>Pages to be Removed</u>			<u>New Pages to be Inserted</u>		
<u>Part</u>	<u>Page Number</u>	<u>Revision</u>	<u>Part</u>	<u>Page Number</u>	<u>Revision</u>
List of Effective Pages	1 of 8 2 of 8 3 of 8	3/15/84 3/15/84 2/9/84	List of Effective Pages	1 of 8 2 of 8 3 of 8	3/19/84 3/19/84 3/19/84
Table of Contents	Cover Sheet 1	7/6/83 7/6/83	Table of Contents	Cover Sheet 1	3/14/84 3/14/84
IP-1	Cover Sheet 1 of 11 2 of 11 9 of 11 11 of 11	1/12/84 4/7/83 1/12/84 10/19/82 4/7/83	IP-1	Cover Sheet 1 of 11 2 of 11 9 of 11 11 of 11	3/14/84 3/14/84 3/14/84 3/14/84
IP-8	Cover Sheet 2 of 4 3 of 4	1/12/84 1/12/84 1/12/84	IP-8	Cover Sheet 2 of 4 3 of 4	3/14/84 3/14/84 3/14/84
Att. 1	1 of 1	6/6/83	Att. 1	1 of 1	3/14/84
IP-9	Cover Sheet 1 of 1	6/15/82 12/21/82	IP-9 (deleted)	Cover Sheet	3/14/84
IP-10	Cover Sheet Att. 1 Att. 3 Att. 6	1/19/84 7/6/83 1/19/84 1/19/84 7/6/83	IP-10	Cover Sheet Att. 1 Att. 3 Att. 6	3/14/84 3/14/84 3/14/84 3/14/84



TENNESSEE VALLEY AUTHORITY

BROWNS FERRY NUCLEAR PLANT IMPLEMENTING PROCEDURES DOCUMENT

LIST OF EFFECTIVE PAGES

This List of Effective Pages must be retained with the Browns Ferry Nuclear Plant Implementing Procedures Documents.

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN		List of Effective Pages	1 of 8	03/19/84	
			2 of 8	03/19/84	
			3 of 8	03/19/84	
			4 of 8	02/09/84	
			5 of 8	02/14/84	
			6 of 8	02/14/84	
			7 of 8	01/20/84	
			8 of 8	01/20/84	
			Table of Contents	Coversheet 1 of 1	03/14/84 03/14/84
		IP-1	Preface	Coversheet 1 of 1	03/14/84 10/12/83
		IP-1			1 of 11
2 of 11	03/14/84				
3 of 11	10/19/82				
4 of 11	10/19/82				
5 of 11	10/19/82				
6 of 11	10/12/83				
7 of 11	10/19/82				
8 of 11	10/19/82				
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11 of 11	03/14/84				
IP-2			Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	02/04/83	
IP-3			Coversheet	01/19/84	
			1 of 2	01/19/84	
			2 of 2	01/19/84	

LIST OF EFFECTIVE PAGES (Con't)

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN (Cont'd)	IP-3	Table 1	1 of 1	10/12/83	
		Table 2	1 of 1	10/12/83	
	IP-4		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	01/19/84	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-5		Coversheet	01/19/84	
			1 of 3	01/19/84	
			2 of 3	01/19/84	
			3 of 3	04/07/83	
			Table 1	1 of 1	10/12/83
		Table 2	1 of 1	10/12/83	
	IP-6		Coversheet	03/08/84	
			1 of 1	03/08/84	
			Attachment 1	1 of 2	03/08/84
				2 of 2	03/08/84
			Attachment 2	1 of 2	03/08/84
				2 of 2	03/08/84
			Attachment 3	1 of 2	03/08/84
			2 of 2	03/08/84	
	IP-7		Coversheet	02/15/84	
			1 of 1	12/21/81	
			Attachment 1	1 of 2	02/15/84
			2 of 2	02/15/84	
	IP-8		Coversheet	03/14/84	
			1 of 4	01/12/84	
			2 of 4	03/14/84	
			3 of 4	03/14/84	
			4 of 4	01/12/84	
		Attachment 1 (deleted)	1 of 1	03/14/84	
	IP-9 (deleted)		Coversheet	03/14/84	

LIST OF EFFECTIVE PAGES (Con't)

Part	Procedure Number	Subdivision	Page Number	Date/Rev. No.	
BFN	IP-10		Coversheet	03/14/84	
			1 of 3	07/06/83	
			2 of 3	07/06/83	
			3 of 3	01/19/84	
			Attachment 1	1 of 2	03/14/84
				2 of 2	07/06/83
			Attachment 2	1 of 1	07/06/83
			Attachment 3	1 of 2	01/19/84
				2 of 2	03/14/84
			Attachment 4	1 of 2	07/06/83
				2 of 2	07/06/83
			Attachment 5	1 of 1	07/06/83
			Attachment 6	1 of 1	03/14/84
			Attachment 7	1 of 1	07/06/83
			Attachment 8	1 of 2	07/06/83
				2 of 2	07/06/83
			Attachment 9	1 of 2	07/06/83
				2 of 2	07/06/83
			IP-11		Coversheet
			1 of 2	04/07/83	
			2 of 2	04/07/83	
	IP-12		Coversheet	02/08/83	
			1 of 1	02/08/83	
	IP-13		1 of 2	06/16/81	
			2 of 2	06/16/81	



BROWNS FERRY NUCLEAR PLANT

RADIOLOGICAL EMERGENCY PROCEDURES

IP-1	Emergency Plan Classification Logic
IP-2	Notification of Unusual Event
IP-3	Alert
IP-4	Site Area Emergency
IP-5	General Emergency
IP-6	Activation of the Technical Support Center
IP-7	Activation of the Operations Support Center
IP-8	Personnel Accountability and Evacuation
* IP-9	(Deleted)
IP-10	Medical Emergency Procedure
IP-11	Security and Access Control
IP-12	Local Recovery Center
IP-13	(Deleted)
IP-14	Health Physics Procedures
IP-15	Emergency Exposure
IP-16	Recovery Procedure
IP-17	Emergency Equipment and Supplies
IP-18	(Deleted)
IP-19	Operation of the Emergency Data Information System
IP-20	Technical Support Center (TSC) Operation
IP-21	Operations Support Center (OSC) Operations
IP-22	Long Term Operation
IP-23	Communications Systems
* IP-24	Earthquake Emergency Procedure
IP-25	Radiochemical Laboratory Procedure
IP-26	Tornado Emergency Procedure



PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number BFN - IPD IP-1  
Unit No. 1,2,3  
Title Emergency Plan Classification  
Logic

History of Revisions (For DOE Use Only)

Approval Date/Affected Pages

3-14-84 / 1,2,9,11  
1-12-84 / 2  
10-12-83 / 1,6,10  
7-6-83 / 10

Reason For Revision Minor clarifications based  
on review of NUREG; feedback from  
training classes

Pages Affected 1, 2, 9, 11

Is this change in response to an LER, IE Bulletin, NRC Inspection Report,  
\*Management/Supervisor Inspection, OQAB audit, etc.? Yes \_\_\_\_\_ No X  
(If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document?  
Yes \_\_\_\_\_ No X; New instruction? Yes \_\_\_\_\_ No X  
(If yes to either question, a USQD is required.)

Is this a work plan initiated change? \_\_\_\_\_ Yes (Work Plan No. \_\_\_\_\_) X No

Fire Protection System involved? Yes \_\_\_\_\_ No X (If yes, review and  
signature of fire protection engineer is required.)

NA  
Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes \_\_\_\_\_ No X  
(If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes \_\_\_\_\_ No X (If yes, review and  
signature of Public Safety Services Supervisor is required.)

NA  
Public Safety Services Supervisor

[Signature] 13/2/84  
Prepared By \_\_\_\_\_ Date

John R. Pittman 13-14-84  
PORC Chairman \_\_\_\_\_ Date

[Signature] 13/2/84  
Submitted By \_\_\_\_\_ Date

[Signature] 13/14/84  
Plant Superintendent \_\_\_\_\_ Date

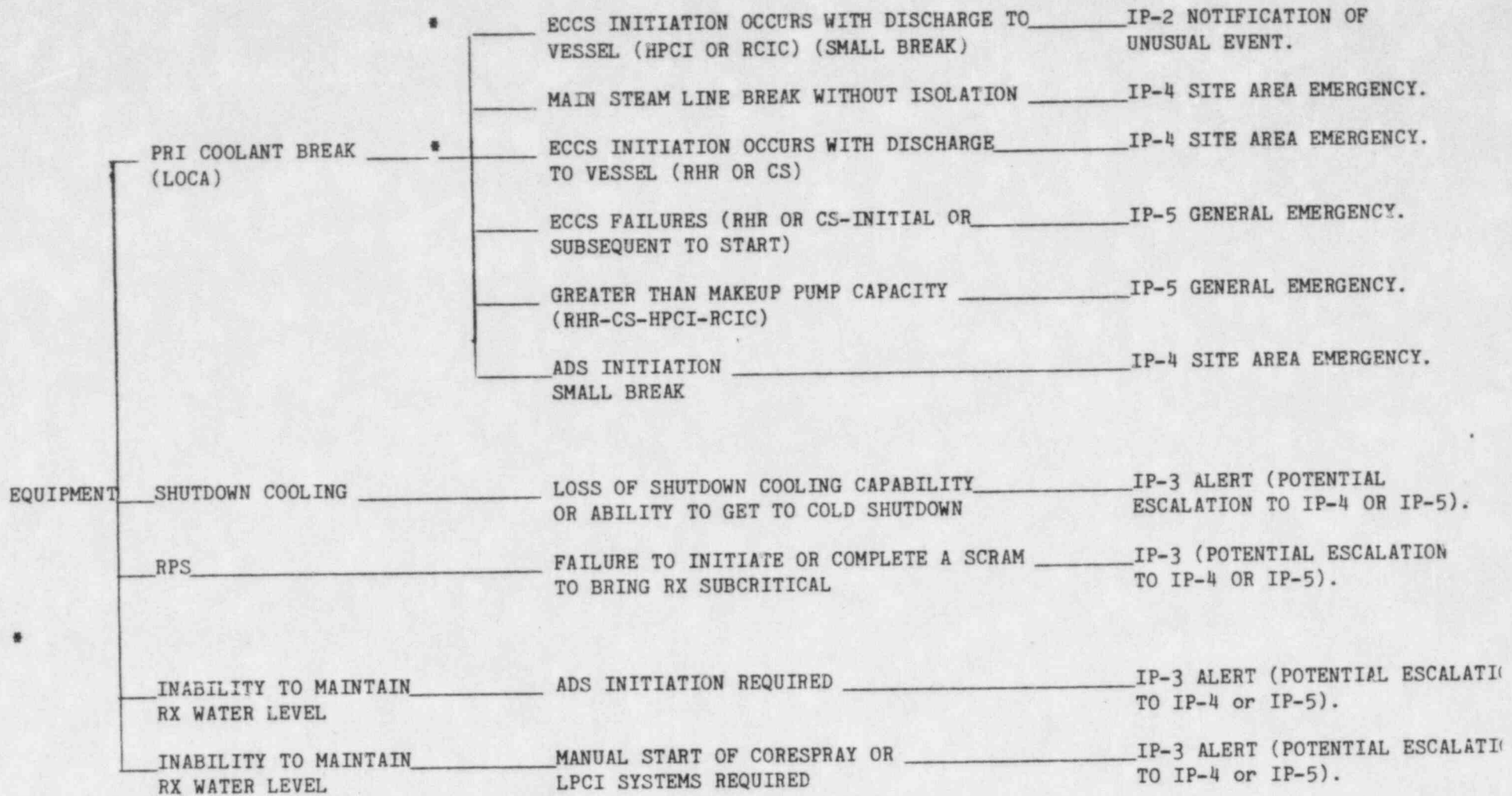
Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
(Note: If this is a new instruction or instruction deletion, document control  
will update the source document matrix.)

Revision

EQUIPMENT

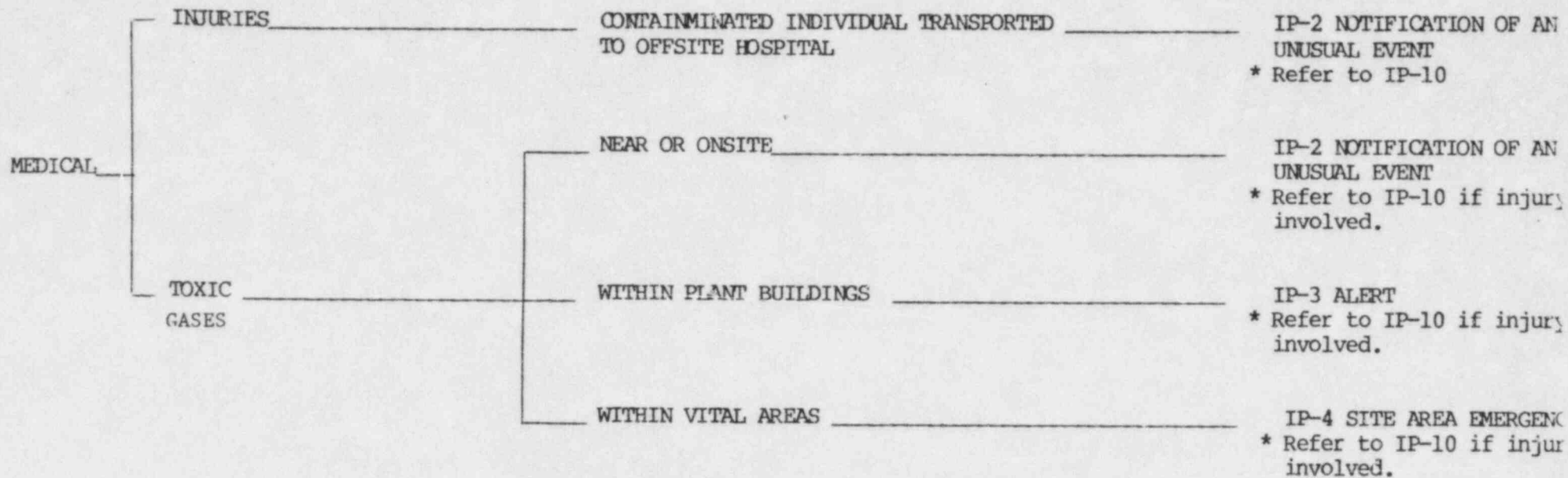
MSL HIGH RADIATION	3 X NORMAL FULL POWER BKG (Alarm & Isolation)	IP-3 ALERT.
PRIMARY STEAM LEAKAGE	>5 GPM UNIDENTIFIED LEAKAGE OR >25 GPM IDENTIFIED AND UNIDENTIFIED (SI-2) OR * >2 GPM INCREASE IN 24 HOURS.	IP-2 NOTIFICATION OF UNUSUAL EVENT.
	* MAIN STEAM RELIEF VALVE OPENING AND FAILING TO RECLOSE AS EXPECTED.	IP-2 NOTIFICATION OF UNUSUAL EVENT.
	TOTAL 50 GPM IDENTIFIED AND UNIDENTIFIED LEAKAGE (SI 2)	IP-3 ALERT.
PRIMARY CONTAINMENT	DRYWELL UNIDENTIFIED LEAK RATE $\geq$ 542 SCFH PER SI 4.7.A.2.a	IP-2 NOTIFICATION UNUSUAL EVENT.
	PRESS (PI-64-57 or PR-64-50) > 50 psig	IP-5 GENERAL EMERGENC
RX COOLANT ACTIVITY	>3.2 uCi/gm of DOSE EQUIVALENT OF I-131, STEADY STATE (SI 4.6.B.5), or >26 uCi/gm AFTER POWER TRANSIENT (SI 4.6.B.4/SI 4.6.B.6)	IP-2 NOTIFICATION OF UNUSUAL EVENT.
	IODINE CONCENTRATION > 300 uCi/gm	IP-3 ALERT.
TECHNICAL SPECIFICATION LCO OR SAFETY LIMIT REACHED REQUIRING LOAD REDUCTION IN ANTICIPATION OF UNIT SHUTDOWN.		IP-2 NOTIFICATION OF UNUSUAL EVENT.

\*Revision

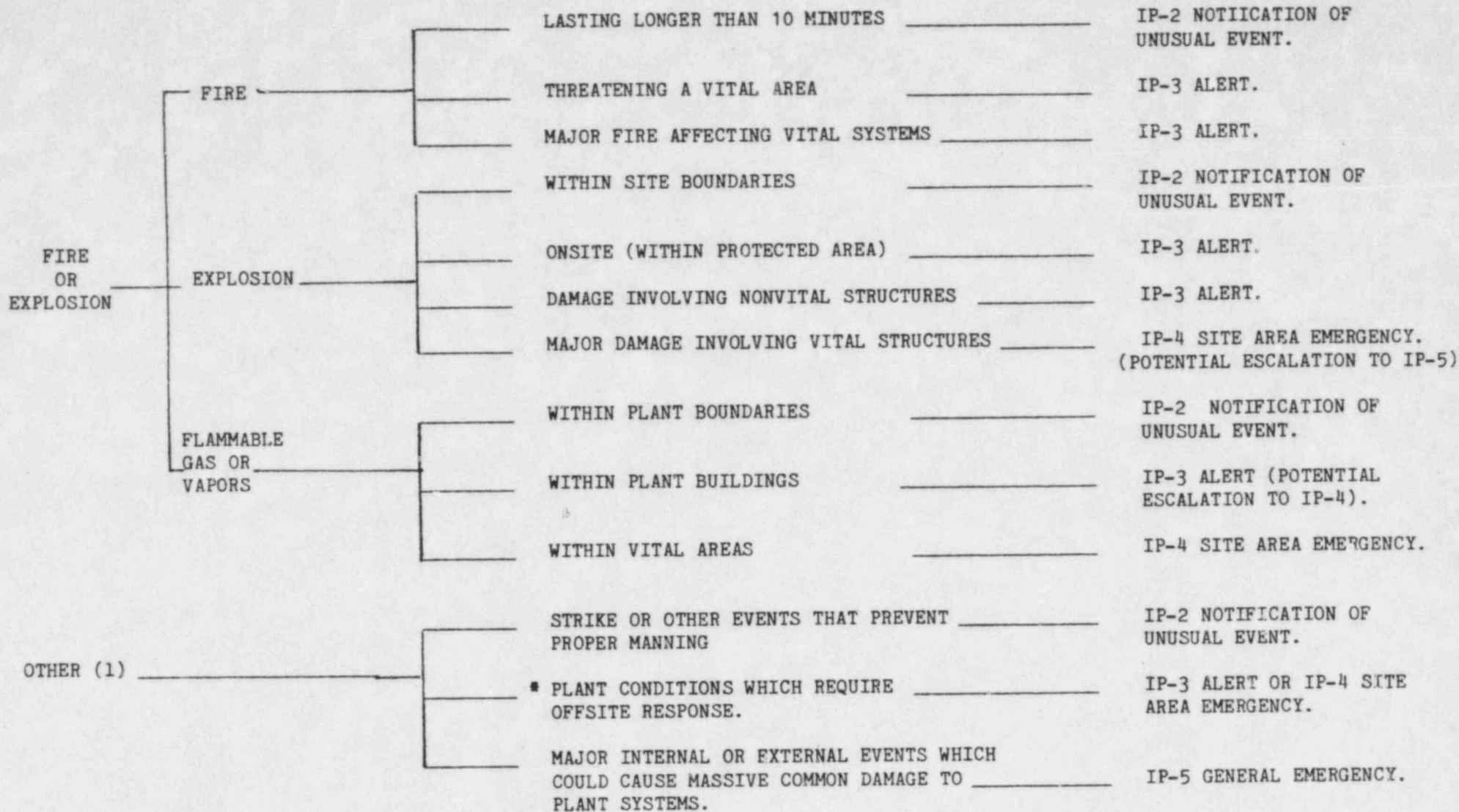


\*Revision

BFN - IPD  
 BFN, IP-1  
 MAR 14 1984



\*Revision



(1) These items are based on Site Emergency Director's professional judgment.

\*Revision

BFN - IPD  
 BFN, IP-1  
 MAR 14 1984



PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number BEN IPD - 1P-8  
Unit No. 1,2,3  
Title Personnel Accountability and Evacuation

History of Revisions (For DCU Use Only)

Approval Date/Affected Pages  
3-14-84 1,2,3, 1 of Att. 1  
1-12-84 1,2,3,4  
11-10-83 1  
10-12-83 1,2,3

Reason For Revision Minor corrections and deletion of provisions for CSB as they have left site.

Pages Affected 2 + 4; 1 of Att. 1

Is this change in response to an LER, IE Bulletin, NRC Inspection Report, Management/Supervisor Inspection, OQAB audit, etc.? Yes  No   
(If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document? Yes  No ; New instruction? Yes  No   
(If yes to either question, a USQD is required.)

Is this a work plan initiated change?  Yes (Work Plan No. )  No

Fire Protection System involved? Yes  No  (If yes, review and signature of fire protection engineer is required.)

NA  
Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes  No   
(If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes  No  (If yes, review and signature of Public Safety Services Supervisor is required.)

NA  
Public Safety Services Supervisor

[Signature] 13/2/84  
Prepared By Date

[Signature] 13-14-84  
PORC Chairman Date

[Signature] 13/2/84  
Submitted By Date

[Signature] 13/14/84  
Plant Superintendent Date

Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
(Note: If this is a new instruction or instruction deletion, document control will update the source document matrix.)

2.3.3 HP Technicians

NRC/C

- a. Proceed to HP lab (if habitable).
- b. If HP lab uninhabitable, proceed to backup HP center in unit 3 control bay mechanical equipment room (EL 617).
- c. Report accountability by name and badge number to Health Physicist in TSC.

2.3.4 Public Safety Service

- a. Man assigned post until directed otherwise by PSS Shift Supervisor.
- b. PSS Shift Supervisor assign officers to strategic locations as needed.
- c. (Deleted).
- d. Perform check for visitors outside the protected area (see Section 2.5).
- e. Send officer into administration building outside protected area and direct personnel to assembly area.
- f. PSS shift supervisor make accountability check of PSS personnel by name and badge number. Report to PSS Supervisor in TSC.

2.3.5 Radiochemical Laboratory Analysts

- a. Proceed to lab (if habitable).
- b. If lab uninhabitable proceed to backup at intake in installed wire cage.
- c. Report accountability by name and badge number to Radiochemical Engineer in TSC.

2.3.6 Nurse

- a. Proceed to health station (if habitable).
- b. If uninhabitable, proceed to Shift Engineer's Office.
- c. Report accountability by name and badge number to Site Emergency Director.

2.3.7 All Other Personnel

- a. Plant personnel evacuate to west parking lot.
- b. Field Services personnel evacuate to east parking lot.
- c. (Deleted)
- d. (Deleted)

NRC/C

CAUTION: If either parking lot is uninhabitable, personnel assigned to that area will exit through their normal gatehouse but then be directed by PSS to proceed to opposite parking lot.

CAUTION: Individuals in C-zone.

- a. Remove outer protective clothing.
- b. Walk at outer edge of normal passage route.
- c. Avoid contact with others.
- d. Request HP surveillance as soon as possible.

\*Revision

2.4 Accountability

- a. Assembled personnel's names and badge numbers from control rooms, TSC, OSC, health physics, radiochemical laboratory, public safety, and health station are forwarded to the Site Emergency Director.
- b. Each foreman/supervisor will account for personnel assigned to them and report any missing to PSS.
- c. Visitor's escorts will account for their visitors and report to Public Safety.
- d. Offsite badged personnel will be accounted for by Public Safety.
- e. (Deleted).
- f. The portals will provide a listing of badge numbers and names of all present inplant personnel to Public Safety. This list, along with those from steps a thru e, will be sent to PSS supervisor in TSC.
- g. With the listing from steps a - e, the Public Safety Service Supervisor in the TSC will subtract these from step f.
- h. The names and badge number of absent persons are returned to Public Safety to determine where persons may be.
- i. If required, Public Safety Service forms search parties, each having at least one HP technician.

2.5 Visitors Outside Plant Protected Area

- a. PSS will dispatch officer(s) to search areas on TVA property outside the protected area fence.
- b. All personnel located will be brought to west parking lot.
- c. PSS will obtain name, address, and phone number and forward to Site Emergency Director.
- d. Personnel will be surveyed and released as described in 2.6 below.

NOTE: Affected areas of Wheeler Lake will be evacuated by Alabama Division of Water Safety, as defined in that section of the State Plan, through the CECC Emergency Director.

2.6 Release from Site

- a. Site Emergency Director will determine which individuals will remain (additional TSC/OSC, engineering, craft, etc. personnel).
- b. HP sets up checkpoints coincident with PSS access control points.
- c. Personnel will be directed by PSS to proceed to their residences, to tune in TV/radio for further information, and keep phone lines clear for possible recall.
- d. HP will survey all personnel and vehicles at the checkpoints before release. Contaminated individuals will be evacuated to the Power Service Shops utility building at Wilson Hydro Plant. Site Emergency Director will notify DNPEC Director of any such individuals.

NRC/C

\*Revision

(Deleted)

\*Revision



PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number BFN-IPD 1P-9  
Unit No. 1,2,3  
Title Evacuation of Construction Services Personnel

History of Revisions (For DOE Use Only)

Approval Date/Affected Pages  
3-14-84 / All (Delete)

Reason For Revision Procedure no longer required - CSB has left site

Pages Affected All

Is this change in response to an LER, IE Bulletin, NRC Inspection Report, Management/Supervisor Inspection, OQAB audit, etc.? Yes \_\_\_\_\_ No   
(If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document? Yes \_\_\_\_\_ No  ; New instruction? Yes \_\_\_\_\_ No   
(If yes to either question, a USQD is required.)

Is this a work plan initiated change? \_\_\_\_\_ Yes (Work Plan No. \_\_\_\_\_)  No

Fire Protection System involved? Yes \_\_\_\_\_ No  (If yes, review and signature of fire protection engineer is required.)

\_\_\_\_\_  
Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes \_\_\_\_\_ No   
(If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes \_\_\_\_\_ No  (If yes, review and signature of Public Safety Services Supervisor is required.)

NA  
\_\_\_\_\_  
Public Safety Services Supervisor

[Signature] 1-31-84  
Prepared By Date

John R. Pittman 3-14-84  
PORC Chairman Date

[Signature] 1-31-84  
Submitted By Date

J. Swindell 3/14/84  
Plant Superintendent Date

Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
(Note: If this is a new instruction or instruction deletion, document control will update the source document matrix.)



PERMANENT INSTRUCTION CHANGE INFORMATION

Instruction Number BFN REP, IPD, 1P-10  
 Unit No 1, 2, 3  
 Title MEDICAL EMERGENCY PROCEDURE

History of Revisions (For DCU Use Only)

Approval Date/Affected Pages	
3-14-84	1 of Att. 1, 2 of Att. 3,
3-14-84	1 of Att. 6
1-19-84	1, 3, pgs. 1, 2, 3 of Att. 3
7-6-83	1 All
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Reason For Revision REPORT RECENT CHANGES IN HOSPITAL AND AMBULANCE SERVICE

Pages Affected 1 (Attachment 1), 2 (Attachment 3)  
1 (Attachment 6)

Is this change in response to an LER, IE Bulletin, NRC Inspection Report, \*Management/Supervisor Inspection, OQAB audit, etc.? Yes \_\_\_\_\_ No X  
 (If yes, specify document under reason for revision.)

Change in procedural detail of FSAR or other licensing document? Yes \_\_\_\_\_ No X; New instruction? Yes \_\_\_\_\_ No X  
 (If yes to either question, a USQD is required.)

Is this a work plan initiated change? \_\_\_\_\_ Yes (Work Plan No. \_\_\_\_\_) X No

Fire Protection System involved? Yes \_\_\_\_\_ No X (If yes, review and signature of fire protection engineer is required.)

NA  
 Fire Protection Engineer

Was this change made to meet a NRC commitment? Yes \_\_\_\_\_ No X  
 (If yes, refer to BF 2.3 for proper identification of the change.)

Security System involved? Yes \_\_\_\_\_ No X (If yes, review and signature of Public Safety Services Supervisor is required.)

NA  
 Public Safety Services Supervisor

Kevin M. Mohr 13/2/84  
 Prepared By Date

A. Chinn 13/2/84  
 Submitted By Date

John R. Pittman 13-14-84  
 PORC Chairman Date

JES Windell 13/14/84  
 Plant Superintendent Date

Retention: Period - Lifetime; Responsibility - Document Control Supervisor  
 (Note: If this is a new instruction or instruction deletion, document control will update the source document matrix.)

\*Revision

NOTIFICATION LISTS

Browns Ferry

Medical Emergency - PAX 299  
Public Safety - PAX 273  
Shift Engineer - PAX 213  
TVA Ambulance - PAX 273  
Health Physics - PAX 300 or 116

Local Ambulance Service

Metro Shoals Emergency Medical Services  
Florence, Alabama - (205) 766-8600

Athens-Limestone Hospital Ambulance Service  
Athens, Alabama - (205) 232-2525

Hospitals

Decatur General Hospital  
Decatur, Alabama - (205) 552-0174 or (205) 552-0175  
- (205) 552-0555 (Use only if other numbers are  
busy)

Huntsville Hospital  
Huntsville, Alabama - (205) 533-8133

REAC/TS, Oak Ridge, Tennessee

Commercial - (615) 626-3131  
FTS - 50-128-615-626-3131

24-hour Hospital Disaster Network  
- Commercial - (615) 482-2441 (Beeper: 241)  
- FTS - 50-128-615-626-1005

<u>Area Medical Chief</u>	<u>Work Phone</u>	<u>Home Phone</u>
Louie L. Coker, M.D. Muscle Shoals, Alabama	(205) 386-2271 FTS 872-8271	(601) 423-9238 Iuka, Mississippi
J. B. Drueke, M.D. Muscle Shoals, Alabama	(205) 386-2271 FTS 872-8271	(205) 381-6794 Sheffield, Alabama
J. W. Caden, M.D. Muscle Shoals, Alabama	(205) 386-2271 FTS 872-8271	(205) 383-5332 Sheffield, Alabama

\*Revision

PATIENT CARE GUIDELINES

2.0 IRRADIATED-NONCONTAMINATED (continued):

- 2.5 For individuals who have received an acute total body dose greater than 75 rem, hospitalization should be considered and arrangements made for evaluation by a nuclear medicine specialist regardless of physical injuries or illnesses. Blood studies should be drawn per directions (Attachment 4). If the patient is ill or injured, he should be transported to Huntsville Hospital or Decatur General Hospital with the information that this patient has received an acute total body dose greater than 75 rem. It is recommended that the attending physician consult REAC/TS. If the patient is not seriously ill or injured enough to require hospitalization for physical illness or injury, consultation with REAC/TS should be obtained through a TVA medical office. At the recommendation of REAC/TS, referral may be made to Oak Ridge Hospital of the United Methodist Church where the patient could be observed and treated by the physicians on the REAC/TS team.

3.0 CONTAMINATED PATIENTS

- 3.1 The patient should be given initial emergency care by the medical emergency response team. All decontamination that the medical status of the patient will allow should be accomplished. The appropriate sequence of care must be determined on an individual basis by the medical-health physics team. The injured person will be transported and treated in one of two ways:
- a. If the person is severely injured, they may be transported directly to Huntsville Hospital or Decatur General Hospital. Every reasonable effort should be made to reduce the radioactive contamination level to less than .5 R per hour at one foot. Spread of contamination may be minimized by removing the patient's excess clothing and wrapping him in a sheet, as his injuries permit.
  - b. If cases of less severe injuries, the patient will be sent to the personnel decontamination facility in the service building (or radwaste building, if stretcher bound) treated in the emergency treatment area or transferred to Huntsville Hospital or Decatur General Hospital.
- 3.2 The health physicist will collect, identify, label, and analyze all biological specimens as required and deemed necessary. He will obtain the injured person's personal dosimetry and replace with equivalent dosimetry if appropriate.
- 3.3 The health physics group will control contamination during transportation to the receiving hospital.

