



P.O. Box 1625  
2525 North Fremont Ave.  
Idaho Falls, Idaho 83415  
(208) 526-0111

# FAX TRANSMITTAL

Date: 1/13/00

To: GLENN KELLEY

**Phone:** 301-415-1075

Company: NRC

**Fax:** 301-415-3577

From: SOLI KHETRI CHA

**Phone:** 208.526-9254

**Fax Number: (208)526-2930**

Number of pages INCLUDING Cover page 12

**NOTE/MESSAGE:**

LOSP (Severe War Shaking)

FT, FT, Cut Sets

For GARETH Info.

IE Reg.

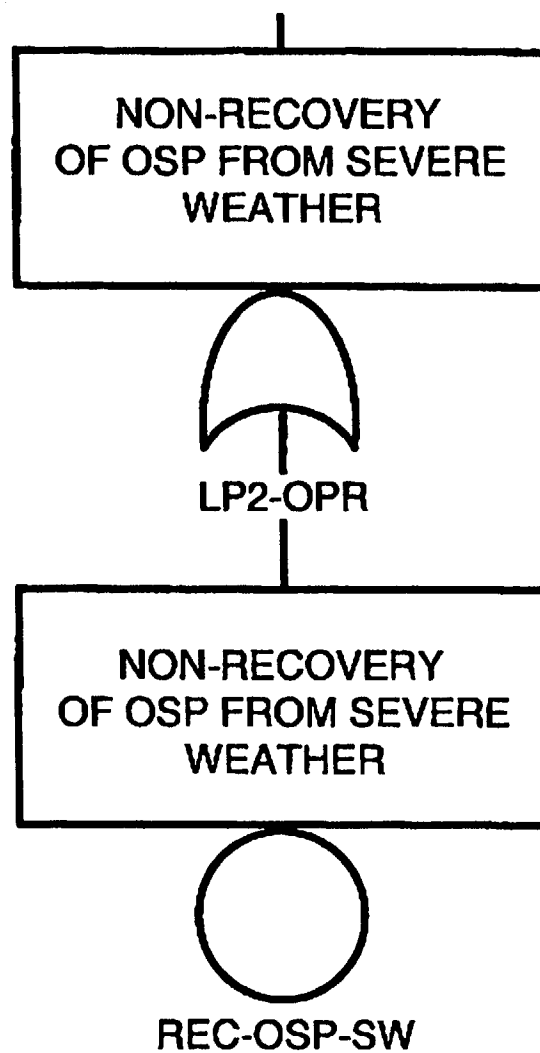
P. 22, Table 3-11, NUREG/CR-5496

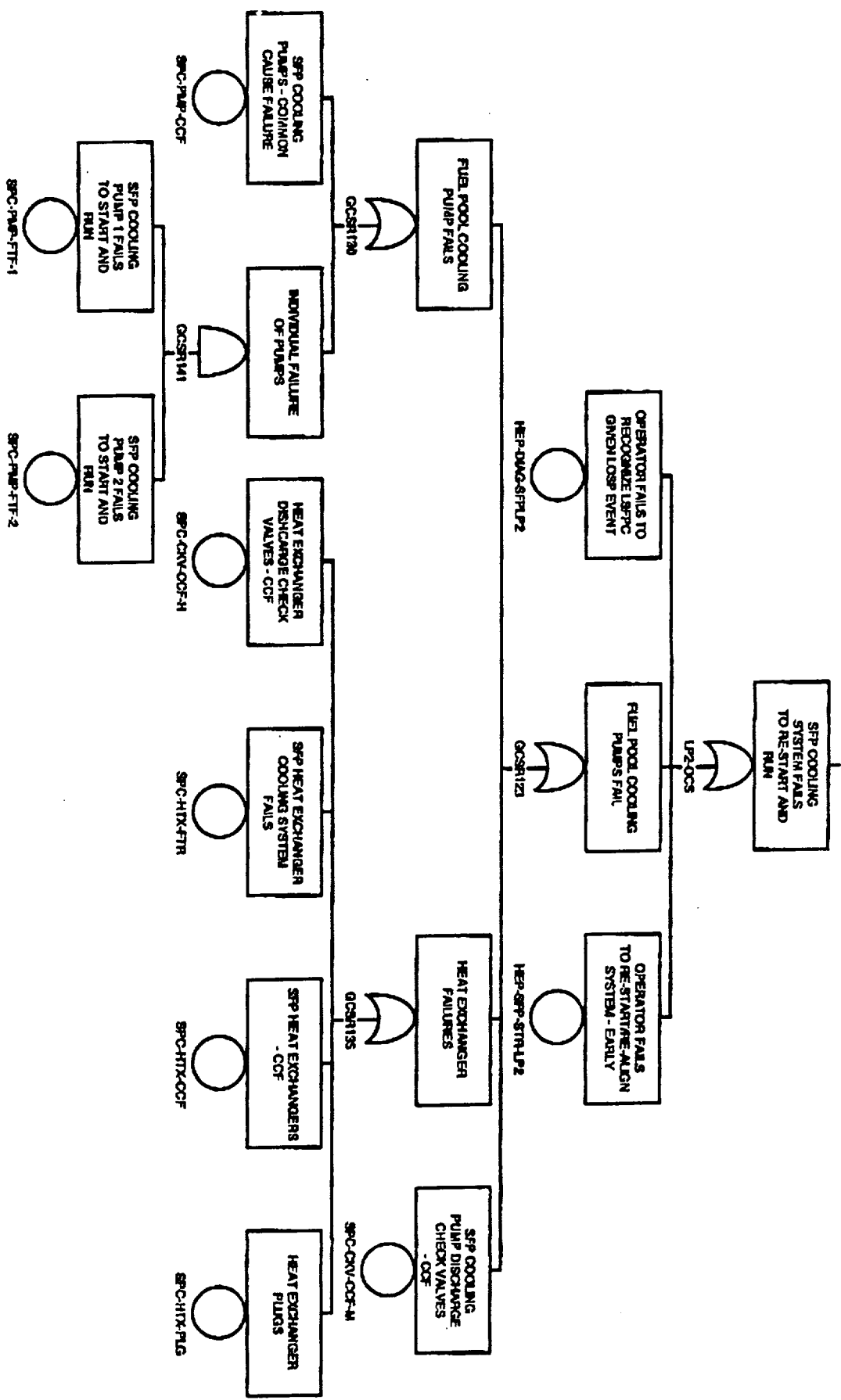
I used the leg you suggested.

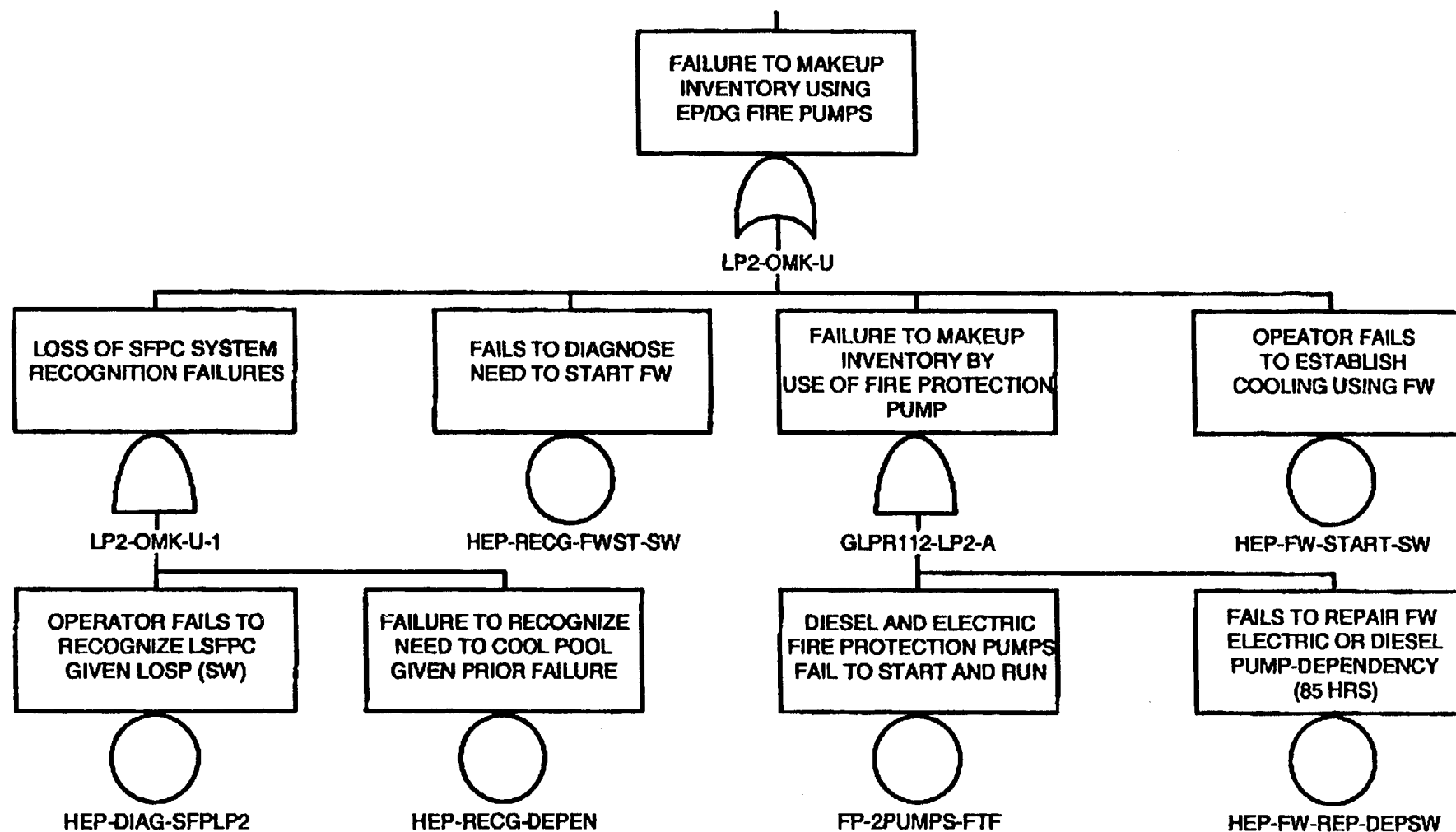
NOTE: This facsimile may contain COMPANY PRIVATE information intended only for the use of the specific individual or entity named above. If you or your employer are not the intended recipient, you are hereby notified that any unauthorized dissemination or copying of this facsimile or the information contained in it is strictly prohibited. If you have received this facsimile in error, please immediately notify the person named above at once by telephone and return the original facsimile to me at the above address via the U.S. Postal Service. Thank you.

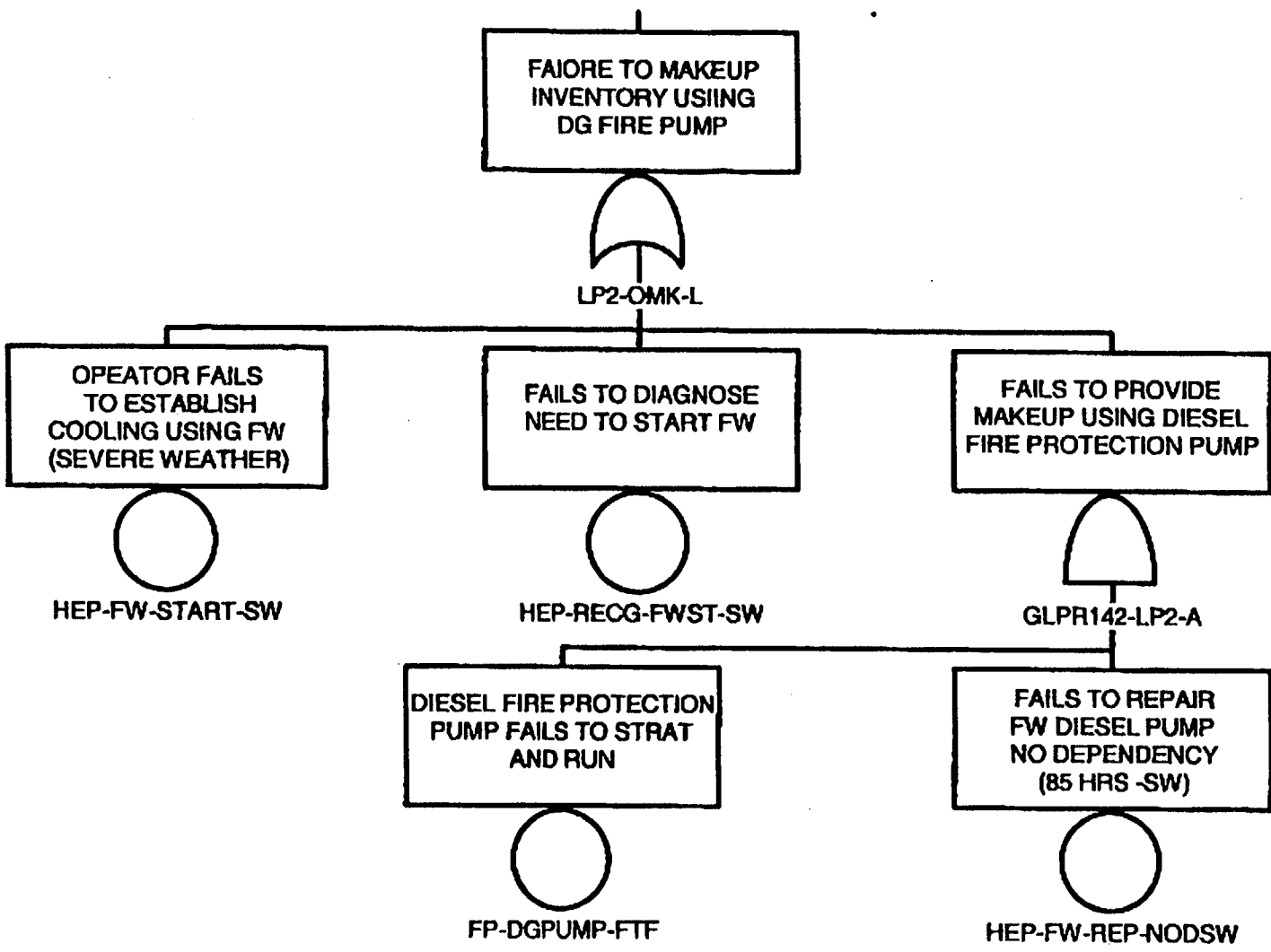
**P.O. Box 1625, Idaho Falls, ID 83415-3860**  
**For OVERNIGHT: 2525 N. Fremont Ave., Idaho Falls, ID 83415-3860**

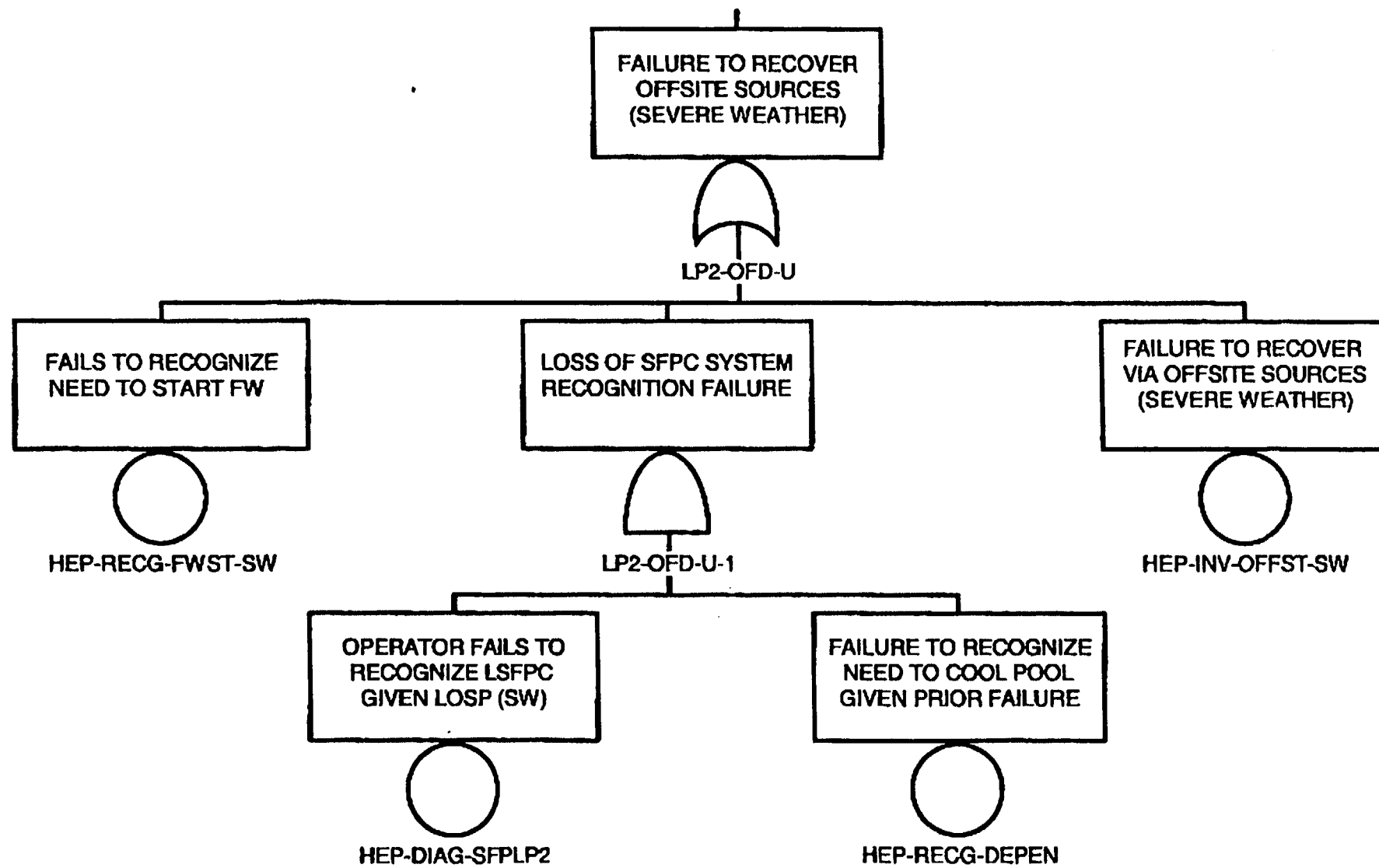
LOSS OF OFFSITE POWER FROM SEVERE WEATHER EVENTS	OFFSITE POWER RECOVERY PRIOR TO SFPC SYSTEM LOSS	COOLING SYSTEM RE-START AND RUN	OPERATOR RECOVERY USING MAKEUP SYSTEM	RECOVERY FROM OFFSITE SOURCES					
IE-LP2	OPR	OCS	OMK	OFD	#	SEQUENCE-NAMES	END-STATE-NAMES	FREQUENCY	
<pre>graph LR     IE-LP2 --&gt; LP2-OPR     IE-LP2 --&gt; LP2-OCS     LP2-OPR --&gt; LP2-OMK-L     LP2-OPR --&gt; LP2-OFD     LP2-OCS --&gt; LP2-OMK-U     LP2-OCS --&gt; LP2-OFD-U     LP2-OMK-L --&gt; LP2-OFD</pre>						1	IE-LP2	OK	1.395E-008
						2	IE-LP2OCS	OK	
						3	IE-LP2OCSOMK	OK	
						4	IE-LP2OCSOMKOFD	SFP3FT	
						5	IE-LP2OPR	OK	1.188E-007
						6	IE-LP2OPROMK	OK	
						7	IE-LP2OPROMKOFD	SFP3FT	

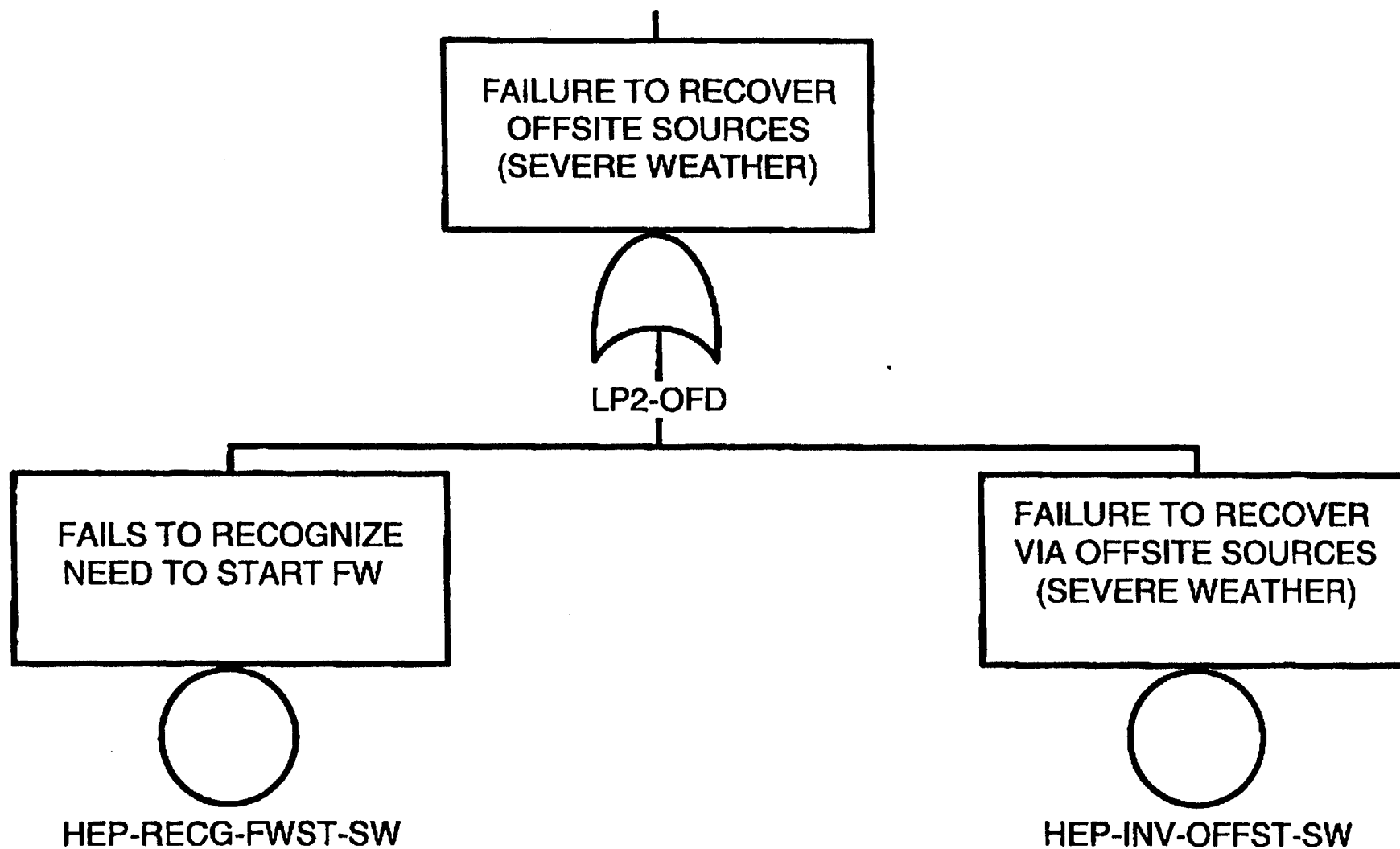














```
Family      : NRC-SFP                      Sequence    : 7
Analysis    : RANDOM                      Event Tree  : IE-LP2
Case        : CURRENT                     Init. Event : IE-LP2
```

Mincut Upper Bound : 1.188E-007

Cut No.	% Total	% Cut Set	Prob/ Freq.	CURRENT CUT SETS
1	66.7	66.7	7.9E-008	FP-DGPUMP-FTF, HEP-FW-REP-NODSW, HEP-INV-OFFST-SW, REC-OSP-SW
2	85.2	18.5	2.2E-008	HEP-RECG-FWST-SW, REC-OSP-SW
3	100.0	14.8	1.8E-008	HEP-FW-START-SW, HEP-INV-OFFST-SW, REC-OSP-SW



Mincut Upper Bound : 1.395E-008

Cut No.	% Total	% Cut Set	Prob/ Freq.	CURRENT CUT SETS
1	78.9	78.9	1.1E-008	HEP-DIAG-SFPLP2, HEP-RECG-DEPEN
2	83.5	4.7	6.5E-010	HEP-RECG-FWST-SW, SPC-PMP-CCF
3	87.5	3.9	5.5E-010	HEP-RECG-FWST-SW, HEP-SFP-STR-LP2
4	91.2	3.7	5.2E-010	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-PMP-CCF
5	94.3	3.2	4.4E-010	HEP-FW-START-SW, HEP-INV-OFFST-SW, HEP-SFP-STR-LP2
6	96.2	1.9	2.6E-010	HEP-RECG-FWST-SW, SPC-HTX-FTR
7	97.7	1.5	2.1E-010	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-HTX-FTR
8	98.0	0.3	3.5E-011	HEP-RECG-FWST-SW, SPC-CKV-CCF-M
9	98.2	0.2	2.8E-011	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-CKV-CCF-M
10	98.4	0.2	2.4E-011	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-PMP-CCF
11	98.5	0.2	2.4E-011	HEP-RECG-FWST-SW, SPC-HTX-PLG
12	98.7	0.2	2.2E-011	HEP-DIAG-SFPLP2, HEP-RECG-FWST-SW
13	98.8	0.2	2.1E-011	HEP-RECG-FWST-SW, SPC-CKV-CCF-H
14	99.0	0.2	2.1E-011	HEP-RECG-FWST-SW, SPC-HTX-CCF
15	99.1	0.2	2.1E-011	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, HEP-SFP-STR-LP2
16	99.3	0.1	1.9E-011	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-HTX-PLG
17	99.4	0.1	1.8E-011	HEP-DIAG-SFPLP2, HEP-FW-START-SW, HEP-INV-OFFST-SW
18	99.5	0.1	1.7E-011	HEP-RECG-FWST-SW, SPC-PMP-FTF-1, SPC-PMP-FTF-2
19	99.6	0.1	1.7E-011	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-CKV-CCF-H
20	99.8	0.1	1.7E-011	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-HTX-CCF
21	99.9	0.1	1.3E-011	HEP-FW-START-SW, HEP-INV-OFFST-SW, SPC-PMP-FTF-1, SPC-PMP-FTF-2
22	99.9	0.1	9.9E-012	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-HTX-FTR
23	99.9	0.0	1.3E-012	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-CKV-CCF-M
24	100.0	0.0	9.1E-013	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-HTX-PLG
25	100.0	0.0	8.3E-013	FP-2PUMPS-FTF, HEP-DIAG-SFPLP2, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW
26	100.0	0.0	7.8E-013	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-CKV-CCF-H
27	100.0	0.0	7.8E-013	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW, HEP-INV-OFFST-SW, SPC-HTX-CCF
28	100.0	0.0	6.3E-013	FP-2PUMPS-FTF, HEP-FW-REP-DEPSW,

```

Family   : NRC-SFP           Sequence   : 4
Analysis : RANDOM            Event Tree  : IE-LP2
Case     : CURRENT           Init. Event : IE-LP2

```

Cut No.	% Total	% Cut Set	Prob/ Freq.	CURRENT CUT SETS
-----	-----	-----	-----	HEP-INV-OFFST-SW, SPC-PMP-FTF-1, SPC-PMP-FTF-2