

## DAEO NATIONAL ENGINEERING & ENVIRONMENTAL LABORATORY

## LOCKHEED MARTIN

## LOCKHEED MARTIN IDAHO TECHNOLOGIES COMPANY FAX TRANSMITTAL

Date: 01/12/00	
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Number of pages INCLUDING Cover page	<u>L</u> f
NOTE/MESSAGE	

GLENN'S

LOC ET, FTS, Costsets:

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LOSS OF COOLING	CONTROL ROOM ALARMS	OTHER INDICATIONS OF LOSS OF COOLING	OPERATOR RECOVERY OF COOLING SYSTEM	OPERATOR INITIATES MAKEUP USING FIRE PUMPS	RECOVERY USING OFFSITE SOURCES				
IE-LOC	CRA	IND	ocs	OFD	OFB	•	SEQUENCE-NAMES	END-STATE-NAMES	FREQUENCY
le-loc	LOC-CRA	LOC-IND	LOC-OCS	LOC-OFD	LOC-OFB	1 2 3 4 5 6 7 8 9 10 11	IE-LOC IE-LOCOCS IE-LOCOCSOFD IE-LOCOCSOFDOFB IE-LOCCRAOCS IE-LOCCRAOCSOFD IE-LOCCRAOCSOFDOFB IE-LOCCRAIND IE-LOCCRAINDOFD IE-LOCCRAINDOFD	OK OK SFP3FT OK OK SFP3FT OK OK SFP3FT	1.197E-008 1.530E-010 2.255E-009

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SEQUENCE CUT SETS (QUANTIFICATION) REPORT

Family: NRC-SFP Analysis: RANDOM Sequence: 04
Event Tree: IE-LOC

Case : CURRENT

Init. Event : IE-LOC

Mincut Upper Bound: 1.197E-008

Cut % % Cut Prob/

No. Total Set Freq.

**CURRENT CUT SETS** 

1 90.2 90.2 1.1E-008 HEP-COOL-REP-E, HEP-RECG-PWSTART

2 97.8 7.6 9.1E-010 FP-2PUMPS-FTF, HEP-COOL-REP-E, HEP-FW-REP-DEPEN, HEP-INV-OFFSITE

3 100.0 2.3 2.7E-010 HEP-COOL-REP-E, HEP-FW-START, HEP-INV-OFFSITE

Family: NRC-SFP

Sequence : 08

Analysis: RANDOM

Event Tree : IE-LOC

Case : CURRENT

Init. Event : IE-LOC

Mincut Upper Bound: 1.530E-010

Cut % % Cut Prob/

No. Total Set Freq.

**CURRENT CUT SETS** 

1 78.4 78.4 1.2E-010 HEP-COOL-REP-L, HEP-RECG-FWSTART, SPC-LVL-LOP

2 90.2 11.8 1.8E-011 HEP-COOL-REP-L, HEP-DIAG-ALARM,

**HEP-RECG-FWSTART** 

3 96.8 6.6 1.0E-011 FP-2PUMPS-FTF, HEP-COOL-REP-L, HEP-FW-REP-DEPEN, HEP-INV-OFFSITE,

SPC-LVL-LOP

4 98.7 2.0 3.0E-012 HEP-COOL-REP-L, HEP-FW-START, HEP-INV-OFFSITE,

SPC-LVL-LOP

5 99.7 1.0 1.5E-012 FP-2PUMPS-FTF, HEP-COOL-REP-L, HEP-DIAG-ALARM,

HEP-FW-REP-DEPEN, HEP-INV-OFFSITE

6 100.0 0.3 4.5E-013 HEP-COOL-REP-L, HEP-DIAG-ALARM, HEP-FW-START, HEP-INV-OFFSITE

Family : NRC-SFP

Sequence : 11

Analysis: RANDOM

Event Tree: IE-LOC

Case : CURRENT

RRENT Init. Event : IE-LOC Mincut Upper Bound : 2.253E-009

Cut % % Cut Prob/

No. Total Set Freq.

**CURRENT CUT SETS** 

1 99.9 99.9 2.3E-009 HEP-DIAG-ALARM, HEP-RECG-FWSTART-L, HEP-WLKDWN-DEPEN

2 100.0 0.1 3.0E-012 HEP-RECG-FWSTART-L, HEP-WLKDWN-LSFPC, SPC-LVL-LOP

3 100.0 0.0 7.5E-014 FP-2PUMPS-FTF, HEP-DIAG-ALARM, HEP-FW-REP-DEPEN, HEP-INV-OFFSITE.

HEP-WLKDWN-DEPEN

4 100.0 0.0 2.3E-014 HEP-DIAG-ALARM, HEP-FW-START, HEP-INV-OFFSITE, HEP-WLKDWN-DEPEN













