

**CORE DAMAGE & DOMINANT CUTSETS RESULTS  
FROM NORTH ANNA IPE**



**TABLE 3.4.1-3**  
**SUMMARY OF CORE DAMAGE SEQUENCES WHICH CONTRIBUTE**  
**TO THE UPPER 95% OF THE TOTAL CORE DAMAGE FREQUENCY**

<u>Sequence</u>	<u>Core Damage Frequency (per year)</u>	<u>Fraction of Total</u>	<u>Functional Failures</u>
S2P35	5.15E-6	7.6%	S2D1D3
S1P38	4.04E-6	5.9%	S1D1Y
T1TrP17	4.00E-6	5.9%	T1TrOD1
T8P22	3.17E-6	4.7%	T8LtRC1
T1AP51	2.99E-6	4.4%	T1ALtBB1
T7P04	2.98E-6	4.4%	T7O02
T1P10	2.71E-6	4.0%	T1LD1
T8P02	2.52E-6	3.7%	T8RC2
S1P10	2.45E-6	3.6%	S1OH2
S2P04	2.45E-6	3.6%	S2H1
T1TrP21	2.22E-6	3.3%	T1TrOD1Qs
AP15	2.12E-6	3.1%	AD2
T7P03	1.98E-6	2.9%	T7OW
T3TrP11	1.67E-6	2.5%	T3TrOD1
T3TrP03	1.57E-6	2.3%	T3TrRC2Ch
T9ATrP08	1.53E-6	2.2%	T9ATrLtRC1
VXP07	1.52E-6	2.2%	VXFm
T1AP46	1.41E-6	2.1%	T1ALtB
T1AP07	1.38E-6	2.0%	T1ABB1
S2P43	1.19E-6	1.8%	S2D1Y
T7P06	1.10E-6	1.6%	T7SGIW
T1TrP14	1.01E-6	1.5%	T1TrOH1
T1AP67	8.86E-7	1.3%	T1AQBB1
T9ATrP02	8.33E-7	1.2%	T9ATrRC2
AP03	8.26E-7	1.2%	AH1
T2P09	7.22E-7	1.1%	T2LD1
T2ATrP11	6.78E-7	1.0%	T2ATrOD1
T1AP02	6.51E-7	1.0%	T1AB
T2ATrP03	6.40E-7	0.9%	T2ATrRC2Ch
T8P06	6.06E-7	0.9%	T8RC2RC3
AP11	5.88E-7	0.9%	AD3
T1P07	5.66E-7	0.8%	T1LH2H1
S2P39	5.20E-7	0.8%	S2D1D2
AP02	5.17E-7	0.8%	ADh
T1P15	5.16E-7	0.8%	T1LP
T1AP58	4.17E-7	0.6%	T1AQB
T9ATrP14	3.88E-7	0.6%	T9ATrOH1
T7P26	3.85E-7	0.6%	T7D1SGI
S2P47	3.27E-7	0.5%	S2D1L
T9ATrP17	3.07E-7	0.5%	T9ATrOD1
T3TrP06	2.83E-7	0.4%	T3TrRC2RC3
RXP01	2.66E-7	0.4%	RX

**TABLE 3.4.1-3 (Continued)**  
**SUMMARY OF CORE DAMAGE SEQUENCES WHICH CONTRIBUTE**  
**TO THE UPPER 95% OF THE TOTAL CORE DAMAGE FREQUENCY**

<u>Sequence</u>	<u>Core Damage Frequency (per year)</u>	<u>Fraction of Total</u>	<u>Functional Failures</u>
T9BP02	2.37E-7	0.3%	T9BL
THP46	2.14E-7	0.3%	THKMTtQ
T1P14	2.07E-7	0.3%	T1LD1Qs
THP30	2.06E-7	0.3%	THKMPr
T1P19	1.91E-7	0.3%	T1LPQs
T3TrP23	1.84E-7	0.3%	T3TrLtRC1Ch
T7P23	1.80E-7	0.3%	T7D1OD3
T9BP10	1.79E-7	0.3%	T9BQH2
T9AP02	1.72E-7	0.3%	T9AL
T1P06	1.69E-7	0.2%	T1LH2
T9AP10	1.31E-7	0.2%	T9AQH2
T2P14	1.30E-7	0.2%	T2LP
T9BP13	1.30E-7	0.2%	T9BQD1
T3TrP22	1.21E-7	0.2%	T3TrLtRC1
T2ATrP06	1.15E-7	0.2%	T2ATrRC2RC3
T7P07	1.10E-7	0.2%	T7SGIO2
T9ATrP06	1.07E-7	0.2%	T9ATrRC2RC3
T1AP26	1.04E-7	0.2%	T1AS1cBB1
T9AP13	1.02E-7	0.2%	T9AQD1



**TABLE B.2-11**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

			AP02.MGP	12:20	9/28/1992
Top event unavailability			=	5.169E-7	
Number of cut sets in equation			=	76	
Cutoff value used last step			=	1.000E-11	
Longest cut set (# of events)			=	6	
Basic Event Data file referenced			=	NAPS1	
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1	4.2489E-7	IE-A	HEP-1ES1:4		
2	3.1692E-8	IE-A	1SICKV-CC-959903		
3	3.1692E-8	IE-A	1SICKV-CC-206207		
4	6.1749E-9	IE-A	1SIMOV-FO-1864A	REC-1ES1:4-1	1SIMOV-FO-1864B
5	6.1749E-9	IE-A	1SIMOV-FC-1890A	REC-1ES1:4-1	1SIMOV-FO-1864B
6	6.1749E-9	IE-A	1SIMOV-FC-1890B	REC-1ES1:4-1	1SIMOV-FO-1864A
7	6.1749E-9	IE-A	1SIMOV-FC-1890A	REC-1ES1:4-1	1SIMOV-FC-1890B
8	3.5900E-10	IE-A	1SICKV-FC-1S1206	1SIMOV-FO-1864B	REC-1ES1:4-1
9	3.5900E-10	IE-A	1SICKV-FC-1S1206	1SIMOV-FC-1890B	REC-1ES1:4-1
10	3.5900E-10	IE-A	1SICKV-FC-1S1207	1SIMOV-FC-1890A	REC-1ES1:4-1
11	3.5900E-10	IE-A	1SICKV-FC-1S1207	1SIMOV-FO-1864A	REC-1ES1:4-1
12	2.0091E-10	IE-A	1SICKV-FC-1S1207	1SICKV-FC-1S1206	
13	1.1325E-10	IE-A	1EEBUS-UM-1H1-2N	1SIMOV-FO-1864B	REC-1ES1:4-1
14	1.1325E-10	IE-A	1EEBUS-UM-1H1-2N	1SIMOV-FC-1890B	REC-1ES1:4-1
15	6.3376E-11	IE-A	1SICKV-FC-1S1207	1EEBUS-UM-1H1-2N	
16	4.9528E-11	IE-A	1SILMS-LF-1860B	1SIPSB-FR-24HP1A	
17	4.9528E-11	IE-A	1SIPSB-FR-24HP1B	1SILMS-LF-1860A	
18	4.7115E-11	IE-A	1SIPSB-FR-24HP1A	1SIMOV-FO-1885D	1SIMOV-FO-1885B
19	4.7115E-11	IE-A	1SIMOV-FO-1885A	1SIMOV-FO-1885C	1SIPSB-FR-24HP1B
20	4.3070E-11	IE-A	1SIPSB-UM-1SIP1A	1EETFN-LP-1J	
21	4.3070E-11	IE-A	1SIPSB-UM-1SIP1B	1EETFN-LP-1H1	
22	4.3070E-11	IE-A	1SIPSB-UM-1SIP1B	1EETFN-LP-1H	
23	4.2775E-11	IE-A	1SIMV--PG-1S1306	1SICKV-FC-1S11	
24	4.2775E-11	IE-A	1SICKV-FC-1S11	1SIMOV-PG-1862B	
25	4.2775E-11	IE-A	1SIMOV-PG-1862A	1SICKV-FC-1S116	
26	4.2775E-11	IE-A	1SICKV-FC-1S116	1SIMV--PG-1S1305	
27	4.2154E-11	IE-A	1SICKV-FC-1S116	HEP-1ES1:3	1SIMOV-FC-1863A
28	4.2154E-11	IE-A	1SICKV-FC-1S126	HEP-1ES1:3	1SIMOV-FC-1863A
29	4.2154E-11	IE-A	1SICKV-FC-1S118	HEP-1ES1:3	1SIMOV-FC-1863A
30	4.2154E-11	IE-A	HEP-1ES1:3	1SIMOV-FC-1863B	1SICKV-FC-1S19

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	AP03.MGP		12:19	9/28/1992
Top event unavailability	=	8.253E-7		
Number of cut sets in equation	=	270		
Cutoff value used last step	=	1.000E-11		
Longest cut set (# of events)	=	5		
Basic Event Data file referenced	=	NAPS1		

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1	1.9515E-7	IE-A	1SIMOV-CC-1860AB	
2	5.9439E-8	IE-A	1SIMOV-FO-1862B	1SIMOV-FO-1862A
3	5.9439E-8	IE-A	1SIMOV-FC-1860B	1SIMOV-FC-1860A
4	5.9439E-8	IE-A	1SIMOV-FC-1860A	1SIMOV-FO-1862B
5	5.9439E-8	IE-A	1SIMOV-FO-1862A	1SIMOV-FC-1860B
6	3.1692E-8	IE-A	1SICKV-CC-FC116	
7	2.4729E-8	IE-A	1SIPSB-UM-1SIP1B	1SIMOV-FO-1862A
8	2.4729E-8	IE-A	1SIPSB-UM-1SIP1A	1SIMOV-FC-1860B
9	2.4729E-8	IE-A	1SIMOV-FC-1860A	1SIPSB-UM-1SIP1B
10	2.4729E-8	IE-A	1SIMOV-FO-1862B	1SIPSB-UM-1SIP1A
11	2.1903E-8	IE-A	1SIMOV-FO-1862B	1SIPSB-FS-1SIP1A
12	2.1903E-8	IE-A	1SIPSB-FS-1SIP1B	1SIMOV-FO-1862A
13	2.1903E-8	IE-A	1SIMOV-FC-1860A	1SIPSB-FS-1SIP1B
14	2.1903E-8	IE-A	1SIPSB-FS-1SIP1A	1SIMOV-FC-1860B
15	7.3978E-9	IE-A	1SIMOV-PG-1860B	1SIMOV-FO-1862A
16	7.3978E-9	IE-A	1SIMOV-PG-1860A	1SIMOV-FC-1860B
17	7.3978E-9	IE-A	1SIMOV-FC-1860A	1SIMOV-PG-1860B
18	7.3978E-9	IE-A	1SIMOV-FO-1862B	1SIMOV-PG-1860A
19	4.4737E-9	IE-A	1SIMOV-PG-1864B	1SIMOV-FC-1860A
20	4.4737E-9	IE-A	1SIMOV-FC-1860B	1SIMOV-PG-1864A
21	4.4737E-9	IE-A	1SIMOV-FO-1862A	1SIMOV-PG-1864B
22	4.4737E-9	IE-A	1SIMOV-PG-1864A	1SIMOV-FO-1862B
23	4.3209E-9	IE-A	1SIMOV-FO-1862B	1SIPSB-FR-24HP1A
24	4.3209E-9	IE-A	1SIPSB-FR-24HP1B	1SIMOV-FO-1862A
25	4.3209E-9	IE-A	1SIMOV-FC-1860A	1SIPSB-FR-24HP1B
26	4.3209E-9	IE-A	1SIPSB-FR-24HP1A	1SIMOV-FC-1860B
27	3.4557E-9	IE-A	1SICKV-FC-1S126	1SIMOV-FC-1860A
28	3.4557E-9	IE-A	1SICKV-FC-1S118	1SIMOV-FO-1862A
29	3.4557E-9	IE-A	1SICKV-FC-1S119	1SIMOV-FO-1862B
30	3.4557E-9	IE-A	1SICKV-FC-1S116	1SIMOV-FC-1860A

Contribution of equation cut sets not listed = 9.56E-8

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

AP11.MGP			12:20	9/28/1992
Top event unavailability	=		5.881E-7	
Number of cut sets in equation	=		122	
Cutoff value used last step	=		1.000E-11	
Longest cut set (# of events)	=		4	
Basic Event Data file referenced	=		NAPS1	
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1	2.4666E-7	IE-A	1SIPSB-CC-FS1A1B	
2	1.9515E-7	IE-A	1SIMOV-CC-1890CD	
3	3.3740E-8	IE-A	1QSMV--PG-1QS3B	
4	3.1692E-8	IE-A	1SICKV-CC-FC926	
5	3.1692E-8	IE-A	1SICKV-CC-838689	
6	9.1125E-9	IE-A	1SIPSB-FS-1SIP1B	1SIPSB-UM-1SIP1A
7	9.1125E-9	IE-A	1SIPSB-UM-1SIP1B	1SIPSB-FS-1SIP1A
8	8.0709E-9	IE-A	1SIPSB-FS-1SIP1B	1SIPSB-FS-1SIP1A
9	1.8613E-9	IE-A	1SIMOV-PG-1864A	1SIPSB-UM-1SIP1B
10	1.8613E-9	IE-A	1SIPSB-UM-1SIP1A	1SIMOV-PG-1864B
11	1.6485E-9	IE-A	1SIMOV-PG-1864A	1SIPSB-FS-1SIP1B
12	1.6485E-9	IE-A	1SIPSB-FS-1SIP1A	1SIMOV-PG-1864B
13	1.4377E-9	IE-A	1SIPSB-UM-1SIP1B	1SICKV-FC-1S19
14	1.4377E-9	IE-A	1SICKV-FC-1S11B	1SIPSB-UM-1SIP1A
15	1.4377E-9	IE-A	1SICKV-FC-1S126	1SIPSB-UM-1SIP1A
16	1.2734E-9	IE-A	1SICKV-FC-1S126	1SIPSB-FS-1SIP1A
17	1.2734E-9	IE-A	1SICKV-FC-1S11B	1SIPSB-FS-1SIP1A
18	1.2734E-9	IE-A	1SIPSB-FS-1SIP1B	1SICKV-FC-1S19
19	4.0169E-10	IE-A	1EEBUS-UM-DC-111	1SIPSB-FS-1SIP1A
20	4.0169E-10	IE-A	1SIPSB-FS-1SIP1B	1EEBUS-UM-DC-1
21	3.3672E-10	IE-A	1SIMOV-PG-1864B	1SIMOV-PG-1864A
22	3.0611E-10	IE-A	1SIPSB-UM-1SIP1B	1SIMV--PG-1S1305
23	3.0611E-10	IE-A	1SIPSB-UM-1SIP1B	1SIMOV-PG-1862A
24	3.0611E-10	IE-A	1SIMV--PG-1S1306	1SIPSB-UM-1SIP1A
25	3.0611E-10	IE-A	1SIMOV-PG-1862B	1SIPSB-UM-1SIP1A
26	2.7112E-10	IE-A	1SIMV--PG-1S1306	1SIPSB-FS-1SIP1A
27	2.7112E-10	IE-A	1SIMOV-PG-1862B	1SIPSB-FS-1SIP1A
28	2.7112E-10	IE-A	1SIPSB-FS-1SIP1B	1SIMOV-PG-1862A
29	2.7112E-10	IE-A	1SIPSB-FS-1SIP1B	1SIMV--PG-1S1305
30	2.6010E-10	IE-A	1SIMOV-PG-1864A	1SICKV-FC-1S126

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

AP15.MGP				12:16	9/28/1992
Top event unavailability				=	2.120E-6
Number of cut sets in equation				=	7
Cutoff value used last step				=	1.000E-11
Longest cut set (# of events)				=	2
Basic Event Data file referenced				=	NAPS1
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1	4.1029E-7	IE-A	1SIMOV-PG-1865C		
2	4.1029E-7	IE-A	1SIMOV-PG-1865A		
3	3.1692E-7	IE-A	1SICKV-FC-1S1127		
4	3.1692E-7	IE-A	1SICKV-FC-1S1161		
5	3.1692E-7	IE-A	1SICKV-FC-1S1125		
6	3.1692E-7	IE-A	1SICKV-FC-1S1159		
7	3.1692E-8	IE-A	1SICKV-CC-ACCCKV		

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	RXP01.MGP	12:22	9/28/1992
Top event unavailability	=	2.664E-7	
Number of cut sets in equation	=	1	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	1	
Basic Event Data file referenced	=	NAPS1	

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1    2.6635E-7    IE-RX

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

			S1P10.MGP	12:16	9/28/1992
Top event unavailability			=	2.451E-6	
Number of cut sets in equation			=	532	
Cutoff value used last step			=	1.000E-11	
Longest cut set (# of events)			=	7	
Basic Event Data file referenced			=	NAPS1	
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1	4.9333E-7	IE-S1	HEP-1ES1:2-S1	1SIPSB-CC-FS1A1B	
2	3.9029E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-CC-1860AB	
3	1.1888E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1860B	1SIMOV-FC-1860A
4	1.1888E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1860A	1SIMOV-FO-1862B
5	1.1888E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1863B	1SIMOV-FC-1863A
6	1.1888E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-FO-1862A	1SIMOV-FC-1860B
7	1.1888E-7	IE-S1	HEP-1ES1:2-S1	1SIMOV-FO-1862B	1SIMOV-FO-1862A
8	6.3383E-8	IE-S1	HEP-1ES1:2-S1	1SICKV-CC-FC926	
9	6.3383E-8	IE-S1	HEP-1ES1:2-S1	1SICKV-CC-FC116	
10	4.9459E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-UM-1SIP1A	1SIMOV-FC-1860B
11	4.9459E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-UM-1SIP1B	1SIMOV-FO-1862A
12	4.9459E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1860A	1SIPSB-UM-1SIP1B
13	4.9459E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FO-1862B	1SIPSB-UM-1SIP1A
14	4.3805E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1860A	1SIPSB-FS-1SIP1B
15	4.3805E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-FS-1SIP1B	1SIMOV-FO-1862A
16	4.3805E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-FS-1SIP1A	1SIMOV-FC-1860B
17	4.3805E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FO-1862B	1SIPSB-FS-1SIP1A
18	3.7531E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FO-1115D	1SICKV-FO-1S147
19	3.7531E-8	IE-S1	HEP-1ES1:2-S1	1SICKV-FO-1S147	1SIMOV-FO-1115B
20	1.8225E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-FS-1SIP1B	1SIPSB-UM-1SIP1A
21	1.8225E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-UM-1SIP1B	1SIPSB-FS-1SIP1A
22	1.6142E-8	IE-S1	HEP-1ES1:2-S1	1SIPSB-FS-1SIP1B	1SIPSB-FS-1SIP1A
23	1.4796E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-PG-1860B	1SIMOV-FO-1862A
24	1.4796E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-PG-1860A	1SIMOV-FC-1860B
25	1.4796E-8	IE-S1	HEP-1ES1:2-S1	1SIMOV-FC-1860A	1SIMOV-PG-1860B

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

			S1P38.MGP	12:13	9/28/1992
Top event unavailability			=	4.038E-6	
Number of cut sets in equation			=	248	
Cutoff value used last step			=	1.000E-11	
Longest cut set (# of events)			=	6	
Basic Event Data file referenced			=	NAPS1	
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1	1.1471E-6	IE-S1	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	HEP-1FRC:1-11-S1
2	6.3384E-7	IE-S1	1SICKV-FC-1S147	HEP-1FRC:1-11-S1	
3	4.9671E-7	IE-S1	1CHPAT-CC-FS1ABC	HEP-1FRC:1-11-S1	
4	3.9029E-7	IE-S1	1SIMOV-CC-1115BD	HEP-1FRC:1-11-S1	
5	3.9029E-7	IE-S1	1SIMOV-CC-867836	HEP-1FRC:1-11-S1	
6	3.9029E-7	IE-S1	1SIMOV-CC-1115CE	HEP-1FRC:1-11-S1	
7	1.1888E-7	IE-S1	1SIMOV-FO-1115E	1SIMOV-FO-1115C	HEP-1FRC:1-11-S1
8	1.1888E-7	IE-S1	1SIMOV-FC-1115D	1SIMOV-FC-1115B	HEP-1FRC:1-11-S1
9	6.7479E-8	IE-S1	1OSMV-PG-1QS38	HEP-1FRC:1-11-S1	
10	6.3383E-8	IE-S1	1SICKV-CC-838689	HEP-1FRC:1-11-S1	
11	6.3383E-8	IE-S1	1SICKV-CC-79185	HEP-1FRC:1-11-S1	
12	4.4987E-8	IE-S1	1SIMV-PG-1S146	HEP-1FRC:1-11-S1	
13	1.1741E-8	IE-S1	1CHPAT-FS-1CHP1A	1SWTCV-FC-SW102B	1CHPAT-UM-1CHP1C HEP-1FRC:1-11-S1
14	7.4467E-9	IE-S1	HEP-1E1-25	1SICKV-FC-1S179	HEP-1FRC:1-11-S1
15	6.9113E-9	IE-S1	1SICKV-FC-1S179	1SIMOV-FC-1836	HEP-1FRC:1-11-S1
16	4.6946E-9	IE-S1	1CHPAT-UM-1CHP1C	1SWTCV-FC-SW102B	1CHPAT-FR-24HP1A HEP-1FRC:1-11-S1
17	4.5853E-9	IE-S1	1SIMOV-CC-1867CD	HEP-1E1-25	HEP-1FRC:1-11-S1
18	4.5853E-9	IE-S1	1SIMOV-CC-1867AB	HEP-1E1-25	HEP-1FRC:1-11-S1
19	4.2557E-9	IE-S1	1SIMOV-CC-1867CD	1SIMOV-FC-1836	HEP-1FRC:1-11-S1
20	4.2557E-9	IE-S1	1SIMOV-CC-1867AB	1SIMOV-FC-1836	HEP-1FRC:1-11-S1
21	3.6235E-9	IE-S1	1SWTCV-FC-SW102B	1EEBUS-UM-DC-1	HEP-1FRC:1-11-S1
22	3.5939E-9	IE-S1	1CHPAT-FS-1CHP1A	1SWTCV-CC-102BC	HEP-1FRC:1-11-S1
23	3.2900E-9	IE-S1	1CHPAT-FS-1CHP1A	1CHPAT-FS-1CHP1B	1CHPAT-UM-1CHP1C HEP-1FRC:1-11-S1
24	2.1802E-9	IE-S1	1EEBUS-UM-1H1-2N	1SIMOV-FC-1115B	HEP-1FRC:1-11-S1
25	2.1802E-9	IE-S1	1SIMOV-FO-1115E	1EEBUS-UM-1H1-2N	HEP-1FRC:1-11-S1
26	1.4931E-9	IE-S1	1CHPAT-FS-1CHP1A	1CHPAT-UM-1CHPBC	HEP-1FRC:1-11-S1
27	1.4370E-9	IE-S1	1SWTCV-CC-102BC	1CHPAT-FR-24HP1A	HEP-1FRC:1-11-S1

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

S2P04.MGP				12:16	9/28/1992
Top event unavailability	=	2.450E-6			
Number of cut sets in equation	=	400			
Cutoff value used last step	=	1.000E-11			
Longest cut set (# of events)	=	6			
Basic Event Data file referenced	=	NAPS1			
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1	4.9727E-7	IE-S2	C-FM01	1SIPSB-CC-FS1A1B	
2	3.9341E-7	IE-S2	C-FM01	1SIMOV-CC-1860AB	
3	1.1983E-7	IE-S2	C-FM01	1SIMOV-FO-1862B	1SIMOV-FO-1862A
4	1.1983E-7	IE-S2	C-FM01	1SIMOV-FC-1860A	1SIMOV-FO-1862B
5	1.1983E-7	IE-S2	C-FM01	1SIMOV-FC-1860B	1SIMOV-FC-1860A
6	1.1983E-7	IE-S2	C-FM01	1SIMOV-FO-1862A	1SIMOV-FC-1860B
7	6.3890E-8	IE-S2	C-FM01	1SICKV-CC-FC116	
8	6.3890E-8	IE-S2	C-FM01	1SICKV-CC-FC1229	
9	6.3890E-8	IE-S2	C-FM01	1SICKV-CC-FC926	
10	4.9854E-8	IE-S2	C-FM01	1SIMOV-FC-1860A	1SIPSB-UM-1SIP1B
11	4.9854E-8	IE-S2	C-FM01	1SIPSB-UM-1SIP1B	1SIMOV-FO-1862A
12	4.9854E-8	IE-S2	C-FM01	1SIMOV-FO-1862B	1SIPSB-UM-1SIP1A
13	4.9854E-8	IE-S2	C-FM01	1SIPSB-UM-1SIP1A	1SIMOV-FC-1860B
14	4.4156E-8	IE-S2	C-FM01	1SIMOV-FC-1860A	1SIPSB-FS-1SIP1B
15	4.4156E-8	IE-S2	C-FM01	1SIMOV-FO-1862B	1SIPSB-FS-1SIP1A
16	4.4156E-8	IE-S2	C-FM01	1SIPSB-FS-1SIP1A	1SIMOV-FC-1860B
17	4.4156E-8	IE-S2	C-FM01	1SIPSB-FS-1SIP1B	1SIMOV-FO-1862A
18	1.8371E-8	IE-S2	C-FM01	1SIPSB-UM-1SIP1B	1SIPSB-FS-1SIP1A
19	1.8371E-8	IE-S2	C-FM01	1SIPSB-FS-1SIP1B	1SIPSB-UM-1SIP1A
20	1.6271E-8	IE-S2	C-FM01	1SIPSB-FS-1SIP1B	1SIPSB-FS-1SIP1A
21	1.4914E-8	IE-S2	C-FM01	1SIMOV-FC-1860A	1SIMOV-PG-1860B
22	1.4914E-8	IE-S2	C-FM01	1SIMOV-FO-1862B	1SIMOV-PG-1860A
23	1.4914E-8	IE-S2	C-FM01	1SIMOV-PG-1860B	1SIMOV-FO-1862A
24	1.4914E-8	IE-S2	C-FM01	1SIMOV-PG-1860A	1SIMOV-FC-1860B
25	9.0191E-9	IE-S2	C-FM01	1SIMOV-FC-1860B	1SIMOV-PG-1864A



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

S2P35.MGP			12:13	9/28/1992		
Top event unavailability	=	5.152E-6				
Number of cut sets in equation	=	974				
Cutoff value used last step	=	1.000E-11				
Longest cut set (# of events)	=	7				
Basic Event Data file referenced	=	NAPS1				
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1	1.3887E-6	IE-S2	1QSMV--PG-10S38	C-Y02		
2	1.3044E-6	IE-S2	1SICKV-CC-838689	C-Y02		
3	1.0710E-7	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02	1SIPSB-UM-1SIP1A	
4	1.0710E-7	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02	1SIPSB-UM-1SIP1B	
5	9.4855E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02	1SIPSB-FS-1SIP1B	
6	9.4855E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02	1SIPSB-FS-1SIP1A	
7	7.4572E-8	IE-S2	1SWTCV-FC-SW1028 1EEBUS-UM-DC-1	C-Y02		
8	5.9176E-8	IE-S2	1SICKV-FC-1S147	C-Y02	1SIPSB-UM-1SIP1A	
9	5.9176E-8	IE-S2	1SICKV-FC-1S147	C-Y02	1SIPSB-UM-1SIP1B	
10	5.2412E-8	IE-S2	1SICKV-FC-1S147	C-Y02	1SIPSB-FS-1SIP1A	
11	5.2412E-8	IE-S2	1SICKV-FC-1S147	C-Y02	1SIPSB-FS-1SIP1B	
12	4.6374E-8	IE-S2	1CHPAT-CC-FS1ABC	C-Y02	1SIPSB-UM-1SIP1B	
13	4.6374E-8	IE-S2	1CHPAT-CC-FS1ABC	C-Y02	1SIPSB-UM-1SIP1A	
14	4.1073E-8	IE-S2	1CHPAT-CC-FS1ABC	C-Y02	1SIPSB-FS-1SIP1A	
15	4.1073E-8	IE-S2	1CHPAT-CC-FS1ABC	C-Y02	1SIPSB-FS-1SIP1B	
16	3.6438E-8	IE-S2	1SIMOV-CC-1115BD	C-Y02	1SIPSB-UM-1SIP1A	
17	3.6438E-8	IE-S2	1SIMOV-CC-1115CE	C-Y02	1SIPSB-UM-1SIP1B	
18	3.6438E-8	IE-S2	1SIMOV-CC-867836	C-Y02	1SIPSB-UM-1SIP1A	
19	3.6438E-8	IE-S2	1SIMOV-CC-1115CE	C-Y02	1SIPSB-UM-1SIP1A	
20	3.6438E-8	IE-S2	1SIMOV-CC-1115BD	C-Y02	1SIPSB-UM-1SIP1B	
21	3.6438E-8	IE-S2	1SIMOV-CC-867836	C-Y02	1SIPSB-UM-1SIP1B	
22	3.2273E-8	IE-S2	1SIMOV-CC-867836	C-Y02	1SIPSB-FS-1SIP1A	
23	3.2273E-8	IE-S2	1SIMOV-CC-1115BD	C-Y02	1SIPSB-FS-1SIP1B	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

S2P39.MGP			12:20	9/28/1992
Top event unavailability	=	5.200E-7		
Number of cut sets in equation	=	261		
Cutoff value used last step	=	1.000E-11		
Longest cut set (# of events)	=	6		
Basic Event Data file referenced	=	NAPS1		
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1	1.9375E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SIMOV-PG-1865A
2	1.9375E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SIMOV-PG-1865B
3	1.9375E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SIMOV-PG-1865C
4	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1125
5	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1142
6	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1127
7	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1161
8	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1159
9	1.4966E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	C-Y02 1SICKV-FC-1S1144
10	1.0706E-8	IE-S2	1SICKV-FC-1S147 C-Y02	1SIMOV-PG-1865A
11	1.0706E-8	IE-S2	1SICKV-FC-1S147 C-Y02	1SIMOV-PG-1865B
12	1.0706E-8	IE-S2	1SICKV-FC-1S147 C-Y02	1SIMOV-PG-1865C
13	8.3894E-9	IE-S2	1CHPAT-CC-FS1ABC C-Y02	1SIMOV-PG-1865A
14	8.3894E-9	IE-S2	1CHPAT-CC-FS1ABC C-Y02	1SIMOV-PG-1865B
15	8.3894E-9	IE-S2	1CHPAT-CC-FS1ABC C-Y02	1SIMOV-PG-1865C
16	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1161
17	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1125
18	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1159
19	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1127
20	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1144
21	8.2693E-9	IE-S2	1SICKV-FC-1S147 C-Y02	1SICKV-FC-1S1142
22	6.5920E-9	IE-S2	1SIMOV-CC-1115CE C-Y02	1SIMOV-PG-1865A
23	6.5920E-9	IE-S2	1SIMOV-CC-1115BD C-Y02	1SIMOV-PG-1865C

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	S2P43.MGP	12:18	9/28/1992
Top event unavailability	=	1.188E-6	
Number of cut sets in equation	=	589	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	2.5592E-7	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	HEP-1FRC:1-11-S2	
2	1.4141E-7	IE-S2	1SICKV-FC-1S147 HEP-1FRC:1-11-S2		
3	1.1081E-7	IE-S2	1CHPAT-CC-FS1ABC HEP-1FRC:1-11-S2		
4	8.7072E-8	IE-S2	1SIMOV-CC-867836 HEP-1FRC:1-11-S2		
5	8.7072E-8	IE-S2	1SIMOV-CC-11158D HEP-1FRC:1-11-S2		
6	8.7072E-8	IE-S2	1SIMOV-CC-1115CE HEP-1FRC:1-11-S2		
7	2.6521E-8	IE-S2	1SIMOV-FO-1115E 1SIMOV-FO-1115C	HEP-1FRC:1-11-S2	
8	2.6521E-8	IE-S2	1SIMOV-FC-1115D 1SIMOV-FC-1115B	HEP-1FRC:1-11-S2	
9	2.4061E-8	IE-S2	HEP-NO-PROCEDURE 1CHCKV-FO-1CH254	1MSRV--CC-101ABC	
10	1.5054E-8	IE-S2	1QSMV--PG-1Q538 HEP-1FRC:1-11-S2		
11	1.4141E-8	IE-S2	1SICKV-CC-838689 HEP-1FRC:1-11-S2		
12	1.4141E-8	IE-S2	1SICKV-CC-79185 HEP-1FRC:1-11-S2		
13	1.3295E-8	IE-S2	1SICKV-FC-1S147 1MSRV--CC-101ABC		
14	1.2770E-8	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBKR-SO-15H8	1EE-BAT-11-2HR
15	1.2770E-8	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBKR-SO-14H1	1EE-BAT-11-2HR
16	1.2770E-8	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBKR-SO-14H2	1EE-BAT-11-2HR
17	1.0419E-8	IE-S2	1CHPAT-CC-FS1ABC 1MSRV--CC-101ABC		
18	1.0036E-8	IE-S2	1SIMV--PG-1S146 HEP-1FRC:1-11-S2		
19	8.1865E-9	IE-S2	1SIMOV-CC-11158D 1MSRV--CC-101ABC		
20	8.1865E-9	IE-S2	1SIMOV-CC-867836 1MSRV--CC-101ABC		
21	8.1865E-9	IE-S2	1SIMOV-CC-1115CE 1MSRV--CC-101ABC		
22	7.6835E-9	IE-S2	1EEBKR-SO-15H8 1SIMOV-FC-1115B	1EE-BAT-11-2HR	1EE-BAT-1-2HR
23	7.6835E-9	IE-S2	1SIMOV-FO-1115E 1EEBKR-SO-15H8	1EE-BAT-11-2HR	1EE-BAT-1-2HR
24	7.6835E-9	IE-S2	1SIMOV-FC-1115B 1EEBKR-SO-14H1	1EE-BAT-11-2HR	1EE-BAT-1-2HR
25	7.6835E-9	IE-S2	1EEBKR-SO-14H1 1SIMOV-FO-1115E	1EE-BAT-11-2HR	1EE-BAT-1-2HR
26	7.2263E-9	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EETFM-LP-1H	1EE-BAT-11-2HR
27	4.6216E-9	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBUS-LU-1H1	1EE-BAT-11-2HR
28	4.6216E-9	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBUS-LU-1H1-4	1EE-BAT-11-2HR
29	4.6216E-9	IE-S2	1SWTCV-FC-SW102B 1EE-BAT-1-2HR	1EEBUS-LU-1H-480	1EE-BAT-11-2HR
30	4.6216E-9	IE-S2	1EEBUS-LU-1H 1SWTCV-FC-SW102B	1EE-BAT-1-2HR	1EE-BAT-11-2HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

			S2P47.MGP		12:22	9/28/1992
Top event unavailability			=	3.248E-7		
Number of cut sets in equation			=	1081		
Cutoff value used last step			=	1.000E-11		
Longest cut set (# of events)			=	6		
Basic Event Data file referenced			=	NAPS1		
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1	1.3926E-8	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2
2	1.3926E-8	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2
3	8.4872E-9	IE-S2	1SWTCV-FC-SW102B	1EEBUS-UM-DC-I	1FWTRB-FR-24HP2	
4	7.6949E-9	IE-S2	1SICKV-FC-1S147	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	
5	7.6949E-9	IE-S2	1SICKV-FC-1S147	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	
6	6.0301E-9	IE-S2	1CHPAT-CC-FS1ABC	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	
7	6.0301E-9	IE-S2	1CHPAT-CC-FS1ABC	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	
8	4.7381E-9	IE-S2	1SIMOV-CC-867836	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	
9	4.7381E-9	IE-S2	1SIMOV-CC-11158D	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	
10	4.7381E-9	IE-S2	1SIMOV-CC-867836	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	
11	4.7381E-9	IE-S2	1SIMOV-CC-1115CE	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	
12	4.7381E-9	IE-S2	1SIMOV-CC-1115CE	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	
13	4.7381E-9	IE-S2	1SIMOV-CC-11158D	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	
14	4.2542E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A
15	4.2542E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3B
16	4.2151E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	HEP-1AP22:5	
17	3.4161E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWPSB-CC-MDP3AB	
18	2.3782E-9	IE-S2	1EEBUS-UM-DC-I	1CHPAT-FS-1CHP1B	1FWTRB-FR-24HP2	
19	2.3507E-9	IE-S2	1SICKV-FC-1S147	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A	
20	2.3507E-9	IE-S2	1SICKV-FC-1S147	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3B	
21	2.3291E-9	IE-S2	1SICKV-FC-1S147	HEP-1AP22:5		
22	2.3154E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWTRB-FS-1FWP2	1FWPSB-UM-1FWP3A
23	2.3154E-9	IE-S2	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	1FWTRB-FS-1FWP2	1FWPSB-UM-1FWP3B

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP02.MGP		12:19	9/28/1992
Top event unavailability	=	6.511E-7	
Number of cut sets in equation	=	43	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	5	
Basic Event Data file referenced	=	NAPS1	

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1	7.2787E-8	IE-T1	1EGEDG-CC-1H-1J	NON-REC-B16	C-B117	
2	6.9783E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	NON-REC-B16	C-B117
3	6.9783E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	NON-REC-B16	C-B117
4	6.4757E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	NON-REC-B16	C-B117
5	6.4757E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	NON-REC-B16	C-B117
6	5.6168E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	NON-REC-B16	C-B117
7	5.2123E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	NON-REC-B16	C-B117
8	5.2123E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	NON-REC-B16	C-B117
9	4.8368E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	NON-REC-B16	C-B117
10	2.6174E-8	IE-T1	1EGEDG-CC-1H1J2H	NON-REC-B16	C-B117	
11	2.6174E-8	IE-T1	1EGEDG-CC-1H1J2J	NON-REC-B16	C-B117	
12	1.6645E-8	IE-T1	1EGEDG-CC-ALL	NON-REC-B16	C-B117	
13	2.2365E-9	IE-T1	1EGEDG-TM-1H	1EGEDG-FS-1J	NON-REC-B16	C-B117
14	2.2365E-9	IE-T1	1EGEDG-FS-1H	1EGEDG-TM-1J	NON-REC-B16	C-B117
15	2.0754E-9	IE-T1	1EGEDG-TM-1H	1EGEDG-FR-1J	NON-REC-B16	C-B117
16	2.0754E-9	IE-T1	1EGEDG-FR-1H	1EGEDG-TM-1J	NON-REC-B16	C-B117
17	1.3314E-9	IE-T1	1EEBKR-FO-15H2	1EGEDG-UM-1J	NON-REC-B16	C-B117
18	1.3314E-9	IE-T1	1EGEDG-UM-1H	1EEBKR-FO-15J2	NON-REC-B16	C-B117
19	1.2963E-9	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2H	NON-REC-B16	C-B117
20	1.2963E-9	IE-T1	1EGEDG-CC-1H-2J	1EGEDG-UM-1J	NON-REC-B16	C-B117
21	1.2963E-9	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2J	NON-REC-B16	C-B117
22	1.2963E-9	IE-T1	1EGEDG-CC-1H-2H	1EGEDG-UM-1J	NON-REC-B16	C-B117
23	1.0717E-9	IE-T1	1EEBKR-FO-15H2	1EGEDG-FS-1J	NON-REC-B16	C-B117

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP07.MGP				12:17	9/28/1992
Top event unavailability	=	1.385E-6			
Number of cut sets in equation	=	59			
Cutoff value used last step	=	1.000E-11			
Longest cut set (# of events)	=	5			
Basic Event Data file referenced	=	NAPS1			
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1	1.5465E-7	IE-T1	1EGEDG-CC-1H-1J	NON-REC-B16	NON-REC-B117
2	1.4827E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	NON-REC-B16 NON-REC-B117
3	1.4827E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	NON-REC-B16 NON-REC-B117
4	1.3759E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	NON-REC-B16 NON-REC-B117
5	1.3759E-7	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	NON-REC-B16 NON-REC-B117
6	1.1934E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	NON-REC-B16 NON-REC-B117
7	1.1075E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	NON-REC-B16 NON-REC-B117
8	1.1075E-7	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	NON-REC-B16 NON-REC-B117
9	1.0277E-7	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	NON-REC-B16 NON-REC-B117
10	5.5612E-8	IE-T1	1EGEDG-CC-1H1J2J	NON-REC-B16	NON-REC-B117
11	5.5612E-8	IE-T1	1EGEDG-CC-1H1J2H	NON-REC-B16	NON-REC-B117
12	3.5366E-8	IE-T1	1EGEDG-CC-ALL	NON-REC-B16	NON-REC-B117
13	4.7519E-9	IE-T1	1EGEDG-TM-1H	1EGEDG-FS-1J	NON-REC-B16 NON-REC-B117
14	4.7519E-9	IE-T1	1EGEDG-FS-1H	1EGEDG-TM-1J	NON-REC-B16 NON-REC-B117
15	4.4096E-9	IE-T1	1EGEDG-TM-1H	1EGEDG-FR-1J	NON-REC-B16 NON-REC-B117
16	4.4096E-9	IE-T1	1EGEDG-FR-1H	1EGEDG-TM-1J	NON-REC-B16 NON-REC-B117
17	2.8289E-9	IE-T1	1EGEDG-UM-1H	1EEBKR-FO-15J2	NON-REC-B16 NON-REC-B117
18	2.8289E-9	IE-T1	1EEBKR-FO-15H2	1EGEDG-UM-1J	NON-REC-B16 NON-REC-B117
19	2.7544E-9	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2J	NON-REC-B16 NON-REC-B117
20	2.7544E-9	IE-T1	1EGEDG-CC-1H-2H	1EGEDG-UM-1J	NON-REC-B16 NON-REC-B117
21	2.7544E-9	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2H	NON-REC-B16 NON-REC-B117
22	2.7544E-9	IE-T1	1EGEDG-CC-1H-2J	1EGEDG-UM-1J	NON-REC-B16 NON-REC-B117
23	2.2770E-9	IE-T1	1EEBKR-FO-15H2	1EGEDG-FS-1J	NON-REC-B16 NON-REC-B117

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP26.MGP                      12:24    9/28/1992

Top event unavailability                      =    1.038E-7

Number of cut sets in equation                      =                      43

Cutoff value used last step                      =    1.000E-11

Longest cut set (# of events)                      =                      6

Basic Event Data file referenced                      =    NAPS1

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1	1.1608E-8	IE-T1	1EGEDG-CC-1H-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111	
2	1.1129E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
3	1.1129E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
4	1.0327E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
5	1.0327E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
6	8.9574E-9	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
7	8.3122E-9	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
8	8.3122E-9	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
9	7.7135E-9	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
10	4.1740E-9	IE-T1	1EGEDG-CC-1H1J2H	HEP-1AP15-6	NON-REC-B10	NON-REC-B111	
11	4.1740E-9	IE-T1	1EGEDG-CC-1H1J2J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111	
12	2.6545E-9	IE-T1	1EGEDG-CC-ALL	HEP-1AP15-6	NON-REC-B10	NON-REC-B111	
13	3.5666E-10	IE-T1	1EGEDG-TM-1H	1EGEDG-FS-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
14	3.5666E-10	IE-T1	1EGEDG-FS-1H	1EGEDG-TM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
15	3.3097E-10	IE-T1	1EGEDG-FR-1H	1EGEDG-TM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
16	3.3097E-10	IE-T1	1EGEDG-TM-1H	1EGEDG-FR-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
17	2.1233E-10	IE-T1	1EEBKR-FO-15H2	1EGEDG-UM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
18	2.1233E-10	IE-T1	1EGEDG-UM-1H	1EEBKR-FO-15J2	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
19	2.0673E-10	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2H	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
20	2.0673E-10	IE-T1	1EGEDG-CC-1H-2J	1EGEDG-UM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
21	2.0673E-10	IE-T1	1EGEDG-UM-1H	1EGEDG-CC-1J-2J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
22	2.0673E-10	IE-T1	1EGEDG-CC-1H-2H	1EGEDG-UM-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111
23	1.7090E-10	IE-T1	1EEBKR-FO-15H2	1EGEDG-FS-1J	HEP-1AP15-6	NON-REC-B10	NON-REC-B111

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP46.MGP	=	12:17 9/28/1992
Top event unavailability	=	1.407E-6
Number of cut sets in equation	=	344
Cutoff value used last step	=	1.000E-11
Longest cut set (# of events)	=	7
Basic Event Data file referenced	=	NAPS1

1	6.1189E-8	IE-T1	1EGEDG-CC-1H-1J	1FWTRB-FS-1FWP2	NON-REC-B02	C-B103
2	5.8842E-8	IE-T1	1EGEDG-CC-1H-1J	C-B103	1FWTRB-FR-12HP2	REC-B12AVE
3	5.8663E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02
4	5.8663E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1FWTRB-FS-1FWP2	NON-REC-B02
5	5.6413E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	C-B103	1FWTRB-FR-12HP2
6	5.6413E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	C-B103	1FWTRB-FR-12HP2
7	5.4438E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02
8	5.4438E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1FWTRB-FS-1FWP2	NON-REC-B02
9	5.2350E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	C-B103	1FWTRB-FR-12HP2
10	5.2350E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	C-B103	1FWTRB-FR-12HP2
11	4.7218E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02
12	4.5407E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	C-B103	1FWTRB-FR-12HP2
13	4.5076E-8	IE-T1	1EGEDG-CC-1H-1J	1FWTRB-UM-1FWP2	NON-REC-B02	C-B103
14	4.3817E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02
15	4.3817E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02
16	4.2137E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	C-B103	1FWTRB-FR-12HP2
17	4.2137E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	C-B103	1FWTRB-FR-12HP2
18	4.0661E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02
19	3.9102E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	C-B103	1FWTRB-FR-12HP2
20	3.4784E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1FWTRB-UM-1FWP2	NON-REC-B02
21	3.2279E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1FWTRB-UM-1FWP2	NON-REC-B02
22	3.2279E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1FWTRB-UM-1FWP2	NON-REC-B02
23	2.9954E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	1FWTRB-UM-1FWP2	NON-REC-B02



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T1AP51.MGP	12:15	9/28/1992
Top event unavailability	=	2.990E-6	
Number of cut sets in equation	=	401	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

1	1.3001E-7	IE-T1	1EGEDG-CC-1H-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103	
2	1.2502E-7	IE-T1	1EGEDG-CC-1H-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE	
3	1.2464E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
4	1.2464E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
5	1.1986E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
6	1.1986E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
7	1.1567E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
8	1.1567E-7	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
9	1.1123E-7	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
10	1.1123E-7	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
11	1.0033E-7	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
12	9.6477E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
13	9.5773E-8	IE-T1	1EGEDG-CC-1H-1J	1FWTRB-UM-1FWP2	NON-REC-B02	NON-REC-B103	
14	9.3099E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
15	9.3099E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
16	8.9528E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
17	8.9528E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
18	8.6394E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	1FWTRB-FS-1FWP2	NON-REC-B02	NON-REC-B103
19	8.3080E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	NON-REC-B103	1FWTRB-FR-12HP2	REC-B12AVE
20	7.3906E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1FWTRB-UM-1FWP2	NON-REC-B02	NON-REC-B103
21	6.8583E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1FWTRB-UM-1FWP2	NON-REC-B02	NON-REC-B103
22	6.8583E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1FWTRB-UM-1FWP2	NON-REC-B02	NON-REC-B103
23	6.3644E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FR-1J	1FWTRB-UM-1FWP2	NON-REC-B02	NON-REC-B103

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP58.MGP		12:21 9/28/1992
Top event unavailability	=	4.171E-7
Number of cut sets in equation	=	114
Cutoff value used last step	=	1.000E-11
Longest cut set (# of events)	=	7
Basic Event Data file referenced	=	NAPS1

<hr style="border-top: 1px dashed black;"/>									
1	2.3289E-8	IE-T1	1EGEDG-CC-1H-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102		
2	2.3289E-8	IE-T1	1EGEDG-CC-1H-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102		
3	2.2327E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
4	2.2327E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
5	2.2327E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
6	2.2327E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
7	2.0719E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
8	2.0719E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
9	2.0719E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
10	2.0719E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
11	1.7971E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
12	1.7971E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
13	1.6677E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
14	1.6677E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
15	1.6677E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	C-B102	
16	1.6677E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	C-B102	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1AP67.MGP		12:19	9/28/1992
Top event unavailability	=	8.864E-7	
Number of cut sets in equation	=	132	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

1	4.9482E-8	IE-T1	1EGEDG-CC-1H-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01	NON-REC-B102
2	4.9482E-8	IE-T1	1EGEDG-CC-1H-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01	NON-REC-B102
3	4.7440E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
4	4.7440E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
5	4.7440E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
6	4.7440E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-UM-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
7	4.4023E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
8	4.4023E-8	IE-T1	1EGEDG-UM-1H	1EGEDG-FR-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
9	4.4023E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
10	4.4023E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-UM-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
11	3.8184E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
12	3.8184E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
13	3.5434E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
14	3.5434E-8	IE-T1	1EGEDG-FS-1H	1EGEDG-FR-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
15	3.5434E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1RCRV--FO-1456	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102
16	3.5434E-8	IE-T1	1EGEDG-FR-1H	1EGEDG-FS-1J	1RCRV--FO-1455C	1RCPORV-DMDSBO	NON-REC-B01 NON-REC-B102

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1P06.MGP				12:23	9/28/1992				
Top event unavailability				=	1.690E-7				
Number of cut sets in equation				=	187				
Cutoff value used last step				=	1.000E-11				
Longest cut set (# of events)				=	7				
Basic Event Data file referenced				=	NAPS1				
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1	9.5488E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H		1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1863B
2	9.5488E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A		1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1863A
3	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A		1EGEDG-FR-1J	C-P02	C-D102	1SIMOV-FC-1863A
4	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H		1FWPSB-UM-1FWP3B	C-P02	C-D102	1SIMOV-FC-1863B
5	3.6241E-9	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-UM-1H		1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1863B
6	3.6241E-9	IE-T1	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A		1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1863A
7	3.5908E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1EGEDG-UM-1H	1SIMOV-FC-1863B		
8	3.5908E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1EGEDG-UM-1J	1SIMOV-FC-1863A		
9	3.0146E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H		1FWTRB-FR-24HP2	C-P02	C-D102	1SICKV-FO-1S147
10	3.0146E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A		1FWTRB-FR-24HP2	C-P02	C-D102	1SICKV-FO-1S147
11	2.9170E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A		1EGEDG-FS-1J	C-P02	C-D102	1SIMOV-FC-1863A
12	2.9170E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FS-1H		1FWPSB-FS-1FWP3B	C-P02	C-D102	1SIMOV-FC-1863B
13	2.8902E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1EGEDG-FS-1H	1SIMOV-FC-1863B		
14	2.8902E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1EGEDG-FS-1J	1SIMOV-FC-1863A		
15	2.7975E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	C-D102		1SICKV-FO-1S147
16	2.7975E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	C-D102		1SICKV-FO-1S147

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T1P07.MGP	12:20	9/28/1992
Top event unavailability	=	5.657E-7	
Number of cut sets in equation	=	714	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	9	
Basic Event Data file referenced	=	NAPS1	

1	1.0682E-8	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	C-D102	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
2	1.0682E-8	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	C-D102	HEP-1ES1:3	1EE-BAT-1V-2HR	1EE-BAT-111-2HR
3	9.9131E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	C-D102	1EE-BAT-111-2HR	1EE-BAT-1V-2HR	HEP-1ES1:3
4	9.9131E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	C-D102	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1ES1:3
5	9.5488E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1860B		
6	9.5488E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FO-1862B		
7	9.5488E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FO-1862A		
8	9.5488E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	C-D102	1SIMOV-FC-1860A		
9	9.1229E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1SIPSB-CC-FS1A1B				
10	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	C-D102	1SIMOV-FC-1860A		
11	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	C-D102	1SIMOV-FO-1862A		
12	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	C-D102	1SIMOV-FO-1862B		
13	8.8610E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	C-D102	1SIMOV-FC-1860B		
14	7.2176E-9	IE-T1	HEP-1AP22:5	C-P02	C-D102	1SIMOV-CC-1860AB				
15	4.0543E-9	IE-T1	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-P02	C-D102	1EE-BAT-111-2HR	1EE-BAT-1V-2HR	HEP-1ES1:3
16	4.0543E-9	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-UM-1H	1FWTRB-FR-24HP2	C-P02	C-D102	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1ES1:3

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T1P10.MGP		12:15	9/28/1992
Top event unavailability	=		2.705E-6	
Number of cut sets in equation	=		1031	
Cutoff value used last step	=		1.000E-11	
Longest cut set (# of events)	=		7	
Basic Event Data file referenced	=		NAPS1	

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1	9.4898E-7	IE-T1	HEP-1AP22:5	C-P02	HEP-1FRH:1-11				
2	3.4380E-7	IE-T1	1FWCKV-CC-ALLAFW	C-P02	HEP-1FRH:1-11				
3	8.5780E-8	IE-T1	1FWTRB-FR-24HP2	1FWPSB-CC-MDP3AB	C-P02	HEP-1FRH:1-11			
4	5.4228E-8	IE-T1	1FWCKV-LEAKAGE	C-P02	HEP-1FRH:1-11				
5	4.4945E-8	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
6	4.4945E-8	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
7	4.1708E-8	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	HEP-1FRH:1-11		
8	4.1708E-8	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	HEP-1FRH:1-11		
9	2.2567E-8	IE-T1	HEP-1AP22:5	C-P02	1CHCKV-FO-1CH254	HEP-NO-PROCEDURE			
10	1.7058E-8	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-UM-1H	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
11	1.7058E-8	IE-T1	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
12	1.6883E-8	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	1SWTCV-FC-SW102B		
13	1.5667E-8	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	1SWTCV-FC-SW102B		
14	1.4262E-8	IE-T1	1FWPSB-CC-MDP3AB	1FWTRB-FS-1FWP2	C-P02	HEP-1FRH:1-11			
15	1.3730E-8	IE-T1	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A	1EGEDG-FS-1J	C-P02	HEP-1FRH:1-11		
16	1.3730E-8	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FS-1H	1FWPSB-FS-1FWP3B	C-P02	HEP-1FRH:1-11		
17	1.2741E-8	IE-T1	1EGEDG-FR-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
18	1.2741E-8	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-FR-1H	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11		
19	1.2470E-8	IE-T1	HEP-1AP22:5	C-P02	1SICKV-FC-1S147				
20	1.0506E-8	IE-T1	1FWTRB-UM-1FWP2	1FWPSB-CC-MDP3AB	C-P02	HEP-1FRH:1-11			
21	1.0158E-8	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	1SIMOV-FO-1115E		
22	1.0158E-8	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	1SIMOV-FC-1115B		
23	1.0158E-8	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	1SIMOV-FO-1115C		

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1P14.MGP		12:22	9/28/1992
Top event unavailability	=	2.070E-7	
Number of cut sets in equation	=	200	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

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1	3.5944E-8	IE-T1	1EEBUS-UM-DC-111	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02			
2	3.5944E-8	IE-T1	1EGEDG-FS-1J	1EEBUS-UM-DC-I	1FWTRB-FR-24HP2	C-P02			
3	3.3355E-8	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-UM-DC-111	C-P02			
4	3.3355E-8	IE-T1	1FWTRB-FR-24HP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	C-P02			
5	5.9761E-9	IE-T1	1FWTRB-FS-1FWP2	1EEBUS-UM-DC-I	1EGEDG-FS-1J	C-P02			
6	5.9761E-9	IE-T1	1FWTRB-FS-1FWP2	1EGEDG-FS-1H	1EEBUS-UM-DC-111	C-P02			
7	5.5457E-9	IE-T1	1FWTRB-FS-1FWP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	C-P02			
8	5.5457E-9	IE-T1	1EEBUS-UM-DC-111	1EGEDG-FR-1H	1FWTRB-FS-1FWP2	C-P02			
9	2.7123E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-UM-1H	1EEBUS-LU-DC-111	C-P02			
10	2.7123E-9	IE-T1	1EGEDG-UM-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	C-P02			
11	2.1831E-9	IE-T1	1EGEDG-FS-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	C-P02			
12	2.1831E-9	IE-T1	1EEBUS-LU-DC-111	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02			
13	2.0259E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-LU-DC-111	C-P02			
14	2.0259E-9	IE-T1	1EGEDG-FR-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	C-P02			
15	1.2684E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11	1QSSTR-PG-1FL1B	
16	1.2684E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11	1QSSTR-PG-1FL1A	
17	1.1771E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	C-P02	HEP-1FRH:1-11	1QSSTR-PG-1FL1B	
18	1.1771E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	C-P02	HEP-1FRH:1-11	1QSSTR-PG-1FL1A	
19	7.5585E-10	IE-T1	HEP-1AP22:5	C-P02	HEP-1FRH:1-11	1QSSTR-PG-1FL1B	1QSSTR-PG-1FL1A		
20	4.9007E-10	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	C-P02	HEP-1FRH:1-11	1QSMOV-FC-101B	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1P15.MGP                      12:21    9/28/1992  
 Top event unavailability        =    5.158E-7  
 Number of cut sets in equation   =        461  
 Cutoff value used last step      =    1.000E-11  
 Longest cut set (# of events)    =        7  
 Basic Event Data file referenced =    NAPS1

1	1.6440E-7	IE-T1	HEP-1AP22:5	HEP-1FRH:1-15			
2	5.9559E-8	IE-T1	1FWCKV-CC-ALLAFW	HEP-1FRH:1-15			
3	1.9906E-8	IE-T1	HEP-1AP22:5	1RCRV--CC-RCPORV			
4	1.4860E-8	IE-T1	1FWTRB-FR-24HP2	1FWPSB-CC-MDP3AB	HEP-1FRH:1-15		
5	9.4278E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	1RCRV--FC-1456	1EE-BAT-I-2HR
6	9.4278E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	1EE-BAT-III-2HR	1RCRV--FC-1455C
7	9.3943E-9	IE-T1	1FWCKV-LEAKAGE	HEP-1FRH:1-15			
8	8.7488E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	1RCRV--FC-1455C	1EE-BAT-III-2HR
9	8.7488E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	1EE-BAT-I-2HR	1RCRV--FC-1456
10	7.7861E-9	IE-T1	1FWPSB-UM-1FWP3B	1EGEDG-FS-1H	1FWTRB-FR-24HP2	HEP-1FRH:1-15	
11	7.7861E-9	IE-T1	1EGEDG-FS-1J	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	HEP-1FRH:1-15	
12	7.2253E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1EGEDG-FR-1J	HEP-1FRH:1-15	
13	7.2253E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1FWPSB-UM-1FWP3B	HEP-1FRH:1-15	
14	7.2117E-9	IE-T1	1FWCKV-CC-ALLAFW	1RCRV--CC-RCPORV			
15	3.5782E-9	IE-T1	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	1RCRV--FC-1455C	1EE-BAT-III-2HR
16	3.5782E-9	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-UM-1H	1FWTRB-FR-24HP2	1EE-BAT-I-2HR	1RCRV--FC-1456
17	3.5453E-9	IE-T1	HEP-1AP22:5	1RCRV--FC-1455C	1EGEDG-UM-1J	1EE-BAT-III-2HR	
18	3.5453E-9	IE-T1	HEP-1AP22:5	1EGEDG-UM-1H	1EE-BAT-I-2HR	1RCRV--FC-1456	
19	2.9551E-9	IE-T1	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	HEP-1FRH:1-15	
20	2.9551E-9	IE-T1	1FWPSB-FS-1FWP3B	1EGEDG-UM-1H	1FWTRB-FR-24HP2	HEP-1FRH:1-15	
21	2.8801E-9	IE-T1	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A	1EGEDG-FS-1J	1EE-BAT-III-2HR	1RCRV--FC-1455C
22	2.8801E-9	IE-T1	1FWTRB-FR-24HP2	1EGEDG-FS-1H	1FWPSB-FS-1FWP3B	1RCRV--FC-1456	1EE-BAT-I-2HR
23	2.8536E-9	IE-T1	HEP-1AP22:5	1RCRV--FC-1456	1EE-BAT-I-2HR	1EGEDG-FS-1H	
24	2.8536E-9	IE-T1	HEP-1AP22:5	1EE-BAT-III-2HR	1EGEDG-FS-1J	1RCRV--FC-1455C	
25	2.6726E-9	IE-T1	1EGEDG-FR-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	1RCRV--FC-1455C	1EE-BAT-III-2HR



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1P19.MGP		12:22	9/28/1992
Top event unavailability	=	1.908E-7	
Number of cut sets in equation	=	181	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

1	3.6417E-8	1E-11	1EEBUS-UM-DC-III	1EGEDG-FS-1H	1FWTRB-FR-24HP2	1EE-BAT-1-2HR
2	3.6417E-8	1E-11	1EGEDG-FS-1J	1EEBUS-UM-DC-I	1FWTRB-FR-24HP2	1EE-BAT-III-2HR
3	3.3795E-8	1E-11	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-UM-DC-III	1EE-BAT-1-2HR
4	3.3795E-8	1E-11	1FWTRB-FR-24HP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	1EE-BAT-III-2HR
5	6.0548E-9	1E-11	1FWTRB-FS-1FWP2	1EGEDG-FS-1H	1EEBUS-UM-DC-III	1EE-BAT-1-2HR
6	6.0548E-9	1E-11	1FWTRB-FS-1FWP2	1EEBUS-UM-DC-I	1EGEDG-FS-1J	1EE-BAT-III-2HR
7	5.6187E-9	1E-11	1FWTRB-FS-1FWP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	1EE-BAT-III-2HR
8	5.6187E-9	1E-11	1EEBUS-UM-DC-III	1EGEDG-FR-1H	1FWTRB-FS-1FWP2	1EE-BAT-1-2HR
9	2.7480E-9	1E-11	1FWTRB-FR-24HP2	1EGEDG-UM-1H	1EEBUS-LU-DC-III	1EE-BAT-1-2HR
10	2.7480E-9	1E-11	1EGEDG-UM-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	1EE-BAT-III-2HR
11	2.2118E-9	1E-11	1EGEDG-FS-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	1EE-BAT-III-2HR
12	2.2118E-9	1E-11	1EEBUS-LU-DC-III	1EGEDG-FS-1H	1FWTRB-FR-24HP2	1EE-BAT-1-2HR
13	2.0525E-9	1E-11	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-LU-DC-III	1EE-BAT-1-2HR
14	2.0525E-9	1E-11	1EGEDG-FR-1J	1EEBUS-LU-DC-I	1FWTRB-FR-24HP2	1EE-BAT-III-2HR
15	9.1032E-10	1E-11	1EEBUS-UM-DC-III	1EGEDG-FS-1H	1FWTRB-FR-24HP2	1RCMOV-LK-1536
16	9.1032E-10	1E-11	1EGEDG-FS-1J	1EEBUS-UM-DC-I	1FWTRB-FR-24HP2	1RCMOV-LK-1535
17	8.4475E-10	1E-11	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-UM-DC-III	1RCMOV-LK-1536
18	8.4475E-10	1E-11	1FWTRB-FR-24HP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	1RCMOV-LK-1535
19	3.6374E-10	1E-11	1EEBUS-UM-DC-III	1EGEDG-FS-1H	1FWTRB-FR-24HP2	1RCRV--FC-1455C
20	3.6374E-10	1E-11	1EGEDG-FS-1J	1EEBUS-UM-DC-I	1FWTRB-FR-24HP2	1RCRV--FC-1456
21	3.3755E-10	1E-11	1FWTRB-FR-24HP2	1EGEDG-FR-1H	1EEBUS-UM-DC-III	1RCRV--FC-1455C
22	3.3755E-10	1E-11	1FWTRB-FR-24HP2	1EEBUS-UM-DC-I	1EGEDG-FR-1J	1RCRV--FC-1456
23	3.0040E-10	1E-11	1EEBUS-UM-DC-III	1EGEDG-FS-1H	1FWTRB-FR-24HP2	NEP-1FRH:1-15

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1TRP14.MGP                      12:18    9/28/1992  
 Top event unavailability            =    1.014E-6  
 Number of cut sets in equation    =            345  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            9  
 Basic Event Data file referenced   =    NAPS1

1	1.7653E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1EE-BAT-II-2HR	1MSRV--FC-101C	C-D102	HEP-1ES1:3
2	1.7653E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--FC-1456	1EE-BAT-I-2HR	C-D102	HEP-1ES1:3	1EE-BAT-II-2HR
3	1.6381E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1MSRV--FC-101C	1EE-BAT-II-2HR	1EE-BAT-I-2HR	C-D102	HEP-1ES1:3
4	1.6381E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1RCRV--FC-1456	C-D102	1EE-BAT-II-2HR	HEP-1ES1:3
5	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--FC-1456	1EE-BAT-I-2HR	C-D102	1SIMOV-FO-1862B	
6	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1EE-BAT-II-2HR	1MSRV--FC-101C	C-D102	1SIMOV-FC-1863B
7	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1EE-BAT-II-2HR	1MSRV--FC-101C	C-D102	1SIMOV-FC-1860B
8	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--FC-1456	1EE-BAT-I-2HR	C-D102	1SIMOV-FC-1860B	
9	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--FC-1456	1EE-BAT-I-2HR	C-D102	1SIMOV-FC-1863B	
10	1.5779E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1EE-BAT-II-2HR	1MSRV--FC-101C	C-D102	1SIMOV-FO-1862B
11	1.4643E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1MSRV--FC-101C	1EE-BAT-II-2HR	1EE-BAT-I-2HR	C-D102	1SIMOV-FC-1860B
12	1.4643E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1MSRV--FC-101C	1EE-BAT-II-2HR	1EE-BAT-I-2HR	C-D102	1SIMOV-FC-1863B
13	1.4643E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1RCRV--FC-1456	C-D102	1SIMOV-FC-1860B	
14	1.4643E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1RCRV--FC-1456	C-D102	1SIMOV-FC-1863B	
15	1.4643E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-I-2HR	1RCRV--FC-1456	C-D102	1SIMOV-FO-1862B	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1TRP17.MGP                      12:14    9/28/1992  
 Top event unavailability            =    4.003E-6  
 Number of cut sets in equation    =            543  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            8  
 Basic Event Data file referenced   =    NAPS1

1	2.9740E-7	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-11-2HR	1EE-BAT-1-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
2	2.7598E-7	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
3	1.7791E-7	IE-T1	1EGEDG-UM-1H	1HVCHU-FS-1HVE4B	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
4	1.4320E-7	IE-T1	1EGEDG-FS-1H	1HVCHU-FS-1HVE4B	1EE-BAT-11-2HR	1EE-BAT-1-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
5	1.4078E-7	IE-T1	HEP-1FRH:1-11	11A1AS-LF-OUT1A	REC-1AP2B			
6	1.3289E-7	IE-T1	1EGEDG-FR-1H	1HVCHU-FS-1HVE4B	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
7	7.4272E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--FC-1456	1EE-BAT-1-2HR	HEP-1FRH:1-11	
8	7.4272E-8	IE-T1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1MSRV--FC-101C	HEP-1FRH:1-11
9	7.0932E-8	IE-T1	1EGEDG-UM-1H	1HVPCV-FC-1235B1	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
10	7.0932E-8	IE-T1	1EGEDG-UM-1H	1HVTCV-FC-TCV167	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
11	6.8923E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1MSRV--FC-101C	1EE-BAT-11-2HR	1EE-BAT-1-2HR	HEP-1FRH:1-11
12	6.8923E-8	IE-T1	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1EE-BAT-1-2HR	1RCRV--FC-1456	HEP-1FRH:1-11	
13	5.7093E-8	IE-T1	1EGEDG-FS-1H	1HVTCV-FC-TCV167	1EE-BAT-11-2HR	1EE-BAT-1-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
14	5.7093E-8	IE-T1	1EGEDG-FS-1H	1HVPCV-FC-1235B1	1EE-BAT-11-2HR	1EE-BAT-1-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
15	5.2981E-8	IE-T1	1EGEDG-FR-1H	1HVTCV-FC-TCV167	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97
16	5.2981E-8	IE-T1	1EGEDG-FR-1H	1HVPCV-FC-1235B1	1EE-BAT-1-2HR	1EE-BAT-11-2HR	HEP-1FRH:1-11	1MSMV--LK-1MS97

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T1TRP21.MGP		12:16	9/28/1992
Top event unavailability	=	2.224E-6	
Number of cut sets in equation	=	180	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	6.8077E-8	IE-T1	1EEBKR-SO-15H8	1EGEDG-UM-1J	1EE-BAT-I-2HR	1EE-BAT-III-2HR
2	6.8077E-8	IE-T1	1EEBKR-SO-14H2	1EGEDG-UM-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
3	6.8077E-8	IE-T1	1EEBKR-SO-14H1	1EGEDG-UM-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
4	6.8077E-8	IE-T1	1EGEDG-UM-1H	1EEBKR-SO-14J4	1EE-BAT-III-2HR	1EE-BAT-I-2HR
5	6.8077E-8	IE-T1	1EGEDG-UM-1H	1EEBKR-SO-14J1	1EE-BAT-III-2HR	1EE-BAT-I-2HR
6	6.8077E-8	IE-T1	1EGEDG-UM-1H	1EEBKR-SO-15J8	1EE-BAT-III-2HR	1EE-BAT-I-2HR
7	5.4795E-8	IE-T1	1EEBKR-SO-15H8	1EGEDG-FS-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
8	5.4795E-8	IE-T1	1EEBKR-SO-14H1	1EGEDG-FS-1J	1EE-BAT-I-2HR	1EE-BAT-III-2HR
9	5.4795E-8	IE-T1	1EEBKR-SO-14H2	1EGEDG-FS-1J	1EE-BAT-I-2HR	1EE-BAT-III-2HR
10	5.4795E-8	IE-T1	1EGEDG-FS-1H	1EEBKR-SO-15J8	1EE-BAT-I-2HR	1EE-BAT-III-2HR
11	5.4795E-8	IE-T1	1EGEDG-FS-1H	1EEBKR-SO-14J1	1EE-BAT-I-2HR	1EE-BAT-III-2HR
12	5.4795E-8	IE-T1	1EGEDG-FS-1H	1EEBKR-SO-14J4	1EE-BAT-I-2HR	1EE-BAT-III-2HR
13	5.0849E-8	IE-T1	1EEBKR-SO-15H8	1EGEDG-FR-1J	1EE-BAT-I-2HR	1EE-BAT-III-2HR
14	5.0849E-8	IE-T1	1EEBKR-SO-14H2	1EGEDG-FR-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
15	5.0849E-8	IE-T1	1EEBKR-SO-14H1	1EGEDG-FR-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
16	5.0849E-8	IE-T1	1EGEDG-FR-1H	1EEBKR-SO-14J4	1EE-BAT-III-2HR	1EE-BAT-I-2HR
17	5.0849E-8	IE-T1	1EGEDG-FR-1H	1EEBKR-SO-15J8	1EE-BAT-III-2HR	1EE-BAT-I-2HR
18	5.0849E-8	IE-T1	1EGEDG-FR-1H	1EEBKR-SO-14J1	1EE-BAT-III-2HR	1EE-BAT-I-2HR
19	3.8523E-8	IE-T1	1EETFM-LP-1H	1EGEDG-UM-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
20	3.8523E-8	IE-T1	1EGEDG-UM-1H	1EETFM-LP-1J	1EE-BAT-III-2HR	1EE-BAT-I-2HR
21	3.4899E-8	IE-T1	1EGEDG-FS-1H	1EEBUS-UM-DC-III	2EGEDG-UM-2J	1EE-BAT-I-2HR
22	3.2386E-8	IE-T1	1EGEDG-FR-1H	2EGEDG-UM-2J	1EEBUS-UM-DC-III	1EE-BAT-I-2HR
23	3.1007E-8	IE-T1	1EETFM-LP-1H	1EGEDG-FS-1J	1EE-BAT-I-2HR	1EE-BAT-III-2HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T2ATRP03.MGP	12:19	9/28/1992
Top event unavailability	=	6.403E-7	
Number of cut sets in equation	=	4	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	6	
Basic Event Data file referenced	=	NAPS1	

1	3.6988E-7	1E-T2A	HEP-10P49:1	C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
2	2.3124E-7	1E-T2A	1SWPSB-UM-1SWP-4	C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
3	3.0414E-8	1E-T2A	1SWMOV-FC-1SW117	C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
4	8.7911E-9	1E-T2A	1SWPSB-FS-1SWP-4	C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T2ATRP06.MGP		12:24	9/28/1992
Top event unavailability	=	1.144E-7	
Number of cut sets in equation	=	81	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	5.2833E-8	IE-T2A	HEP-10P49:1	C-LT01		HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
2	3.3029E-8	IE-T2A	1SWPSB-UM-1SWP-4	C-LT01		HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
3	6.4926E-9	IE-T2A	1SW-HOTWEA-9MO	1SWPIP-UM-HDRA	C-LT01	HEP-OAP55-40HR	1HVSTR-PL-1HVS1A	2HVSTR-PG-2HVS1B
4	6.4926E-9	IE-T2A	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B	
5	4.3442E-9	IE-T2A	1SWMOV-FC-1SW117	C-LT01		HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
6	2.6412E-9	IE-T2A	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B
7	2.1642E-9	IE-T2A	1SW-COLDWEA-3MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B	2HVSTR-PL-2HVS1A
8	2.1642E-9	IE-T2A	1SWPIP-UM-HDRA	1SW-COLDWEA-3MO	C-LT01	HEP-OAP55-40HR	1HVSTR-PL-1HVS1A	2HVSTR-PG-2HVS1B
9	1.2557E-9	IE-T2A	1SWPSB-FS-1SWP-4	C-LT01	HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS	
10	8.8041E-10	IE-T2A	1SW-COLDWEA-3MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B
11	1.1094E-10	IE-T2A	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
12	1.0470E-10	IE-T2A	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
13	1.0470E-10	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
14	5.8427E-11	IE-T2A	1HVPAT-FR-HVP22A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
15	5.8427E-11	IE-T2A	1HVPAT-FR-HVP20A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
16	5.5141E-11	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVPAT-FR-HVP20A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
17	5.5141E-11	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVPAT-FR-HVP22A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T2ATRP11.MGP                      12:19    9/28/1992  
 Top event unavailability            =    6.773E-7  
 Number of cut sets in equation    =            380  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            8  
 Basic Event Data file referenced   =    NAPS1

1	6.1646E-7	IE-T2A	C-LT01	HEP-1FRH:1-11	11AIAS-LF-OUTIA	REC-1AP28	
2	1.4660E-8	IE-T2A	C-LT01	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	11AIAS-LF-OUTIA	REC-1AP28
3	8.1004E-9	IE-T2A	C-LT01	1SICKV-FC-1S147	11AIAS-LF-OUTIA	REC-1AP28	
4	6.3479E-9	IE-T2A	C-LT01	1CHPAT-CC-FS1ABC	11AIAS-LF-OUTIA	REC-1AP28	
5	4.9879E-9	IE-T2A	C-LT01	1SIMOV-CC-867836	11AIAS-LF-OUTIA	REC-1AP28	
6	4.9879E-9	IE-T2A	C-LT01	1SIMOV-CC-1115CE	11AIAS-LF-OUTIA	REC-1AP28	
7	4.9879E-9	IE-T2A	C-LT01	1SIMOV-CC-1115BD	11AIAS-LF-OUTIA	REC-1AP28	
8	1.5192E-9	IE-T2A	C-LT01	1SIMOV-FO-1115E	1SIMOV-FO-1115C	11AIAS-LF-OUTIA	REC-1AP28
9	1.5192E-9	IE-T2A	C-LT01	1SIMOV-FC-1115D	1SIMOV-FC-1115B	11AIAS-LF-OUTIA	REC-1AP28
10	8.1002E-10	IE-T2A	C-LT01	1SICKV-CC-79185	11AIAS-LF-OUTIA	REC-1AP28	
11	5.7492E-10	IE-T2A	C-LT01	1SIMV--PG-1S146	11AIAS-LF-OUTIA	REC-1AP28	
12	1.6453E-10	IE-T2A	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	1RCRV--CC-RCPORV	HEP-1FRH:1-11
13	1.6453E-10	IE-T2A	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	1MSRV--CC-101ABC	HEP-1FRH:1-11
14	1.5527E-10	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1MSRV--CC-101ABC
15	1.5527E-10	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1RCRV--CC-RCPORV
16	1.5527E-10	IE-T2A	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1RCRV--CC-RCPORV
17	1.5527E-10	IE-T2A	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1MSRV--CC-101ABC
18	1.5005E-10	IE-T2A	C-LT01	1CHPAT-FS-1CHP1A	1SWTCV-FC-SW102B	1CHPAT-UM-1CHP1C	11AIAS-LF-OUTIA
19	1.3999E-10	IE-T2A	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	HEP-1ES1:2-S2	HEP-1FRH:1-11
20	1.3212E-10	IE-T2A	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-1ES1:2-S2

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T2P09.MGP                      12:19    9/28/1992  
 Top event unavailability        =    7.222E-7  
 Number of cut sets in equation   =        125  
 Cutoff value used last step      =    1.000E-11  
 Longest cut set (# of events)    =        7  
 Basic Event Data file referenced =    NAPS1

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1	4.2208E-7	IE-T2	HEP-1AP22:5	C-P01	HEP-1FRN:1-11		
2	1.5291E-7	IE-T2	1FWCKV-CC-ALLAFW	C-P01	HEP-1FRN:1-11		
3	3.8152E-8	IE-T2	1FWTRB-FR-24HP2	1FWPSB-CC-MDP3AB	C-P01	HEP-1FRN:1-11	
4	2.4119E-8	IE-T2	1FWCKV-LEAKAGE	C-P01	HEP-1FRN:1-11		
5	1.0037E-8	IE-T2	HEP-1AP22:5	C-P01	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	
6	6.3432E-9	IE-T2	1FWPSB-CC-MDP3AB	1FWTRB-FS-1FWP2	C-P01	HEP-1FRN:1-11	
7	5.5461E-9	IE-T2	HEP-1AP22:5	C-P01	1SICKV-FC-1S147		
8	4.6728E-9	IE-T2	1FWTRB-UM-1FWP2	1FWPSB-CC-MDP3AB	C-P01	HEP-1FRN:1-11	
9	4.3463E-9	IE-T2	HEP-1AP22:5	C-P01	1CHPAT-CC-FS1ABC		
10	3.6820E-9	IE-T2	1FWTRB-FR-24HP2	1FWPCV-CC-1S9AB	C-P01	HEP-1FRN:1-11	
11	3.6364E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	
12	3.4151E-9	IE-T2	HEP-1AP22:5	C-P01	1SIMOV-CC-1115CE		
13	3.4151E-9	IE-T2	HEP-1AP22:5	C-P01	1SIMOV-CC-1115BD		
14	3.4151E-9	IE-T2	HEP-1AP22:5	C-P01	1SIMOV-CC-867836		
15	2.2079E-9	IE-T2	1FWPSB-UM-1FWP3B	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-P01	HEP-1FRN:1-11
16	2.2079E-9	IE-T2	1FWPSB-FS-1FWP3B	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2	C-P01	HEP-1FRN:1-11
17	2.0093E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	1SICKV-FC-1S147		
18	1.5746E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	1CHPAT-CC-FS1ABC		
19	1.2372E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	1SIMOV-CC-1115BD		
20	1.2372E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	1SIMOV-CC-867836		
21	1.2372E-9	IE-T2	1FWCKV-CC-ALLAFW	C-P01	1SIMOV-CC-1115CE		
22	1.1053E-9	IE-T2	1FWTRB-FR-24HP2	1FWPSB-FR-24HP3A	1FWPSB-UM-1FWP3B	C-P01	HEP-1FRN:1-11
23	1.1053E-9	IE-T2	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1FWPSB-FR-24HP3B	C-P01	HEP-1FRN:1-11



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T2P14.MGP		12:23	9/28/1992
Top event unavailability	=	1.298E-7	
Number of cut sets in equation	=	64	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	6	
Basic Event Data file referenced	=	NAPS1	

1	7.2168E-8	IE-T2	HEP-1AP22:5	HEP-1FRH:1-15	
2	2.6146E-8	IE-T2	1FWCKV-CC-ALLAFW	HEP-1FRH:1-15	
3	8.7385E-9	IE-T2	HEP-1AP22:5	1RCRV--CC-RCPORV	
4	6.5234E-9	IE-T2	1FWTRB-FR-24HP2	1FWPSB-CC-MDP3AB	HEP-1FRH:1-15
5	4.1240E-9	IE-T2	1FWCKV-LEAKAGE	HEP-1FRH:1-15	
6	3.1658E-9	IE-T2	1FWCKV-CC-ALLAFW	1RCRV--CC-RCPORV	
7	1.0846E-9	IE-T2	1FWPSB-CC-MDP3AB	1FWTRB-FS-1FWP2	HEP-1FRH:1-15
8	8.7282E-10	IE-T2	HEP-1AP22:5	1RCRV--FC-1456	1RCRV--FC-1455C
9	7.9898E-10	IE-T2	1FWTRB-UM-1FWP2	1FWPSB-CC-MDP3AB	HEP-1FRH:1-15
10	7.8989E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-CC-MDP3AB	1RCRV--CC-RCPORV
11	6.2957E-10	IE-T2	1FWTRB-FR-24HP2	1FWPCV-CC-159AB	HEP-1FRH:1-15
12	4.9935E-10	IE-T2	1FWCKV-LEAKAGE	1RCRV--CC-RCPORV	
13	3.7752E-10	IE-T2	1FWPSB-UM-1FWP3B	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2 HEP-1FRH:1-15
14	3.7752E-10	IE-T2	1FWPSB-FS-1FWP3B	1FWPSB-UM-1FWP3A	1FWTRB-FR-24HP2 HEP-1FRH:1-15
15	3.1621E-10	IE-T2	1FWCKV-CC-ALLAFW	1RCRV--FC-1456	1RCRV--FC-1455C
16	1.8900E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-FR-24HP3A	1FWPSB-UM-1FWP3B HEP-1FRH:1-15
17	1.8900E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1FWPSB-FR-24HP3B HEP-1FRH:1-15
18	1.7880E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1FWHEP-1FW546 HEP-1FRH:1-15
19	1.7880E-10	IE-T2	1FWTRB-FR-24HP2	1FWHEP-1FW548	1FWPSB-UM-1FWP3B HEP-1FRH:1-15
20	1.6660E-10	IE-T2	1EGEDG-CC-1H1J2J	1EP-LOOP-24	1FWTRB-FR-24HP2 1EE-BAT-III-2HR 1EE-BAT-I-2HR
21	1.5115E-10	IE-T2	1FWTRB-FR-24HP2	1FWCKV-FC-1FW165	1FWPSB-UM-1FWP3B HEP-1FRH:1-15
22	1.5115E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	1FWCKV-FC-1FW183 HEP-1FRH:1-15
23	1.3133E-10	IE-T2	1FWPSB-CC-MDP3AB	1FWTRB-FS-1FWP2	1RCRV--CC-RCPORV
24	1.1533E-10	IE-T2	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3A	1FWPSB-FS-1FWP3B HEP-1FRH:1-15
25	1.0599E-10	IE-T2	1FWPSB-CC-MDP3AB	1MSAOV-CC-111AB	HEP-1FRH:1-15
26	1.0595E-10	IE-T2	1EGEDG-CC-ALL	1EP-LOOP-24	1FWTRB-FR-24HP2 1EE-BAT-III-2HR 1EE-BAT-I-2HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

		T3TRP03.MGP	12:17	9/28/1992
Top event unavailability	=	1.572E-6		
Number of cut sets in equation	=	4		
Cutoff value used last step	=	1.000E-11		
Longest cut set (# of events)	=	6		
Basic Event Data file referenced	=	NAPS1		

1	9.0788E-7	IE-T3	HEP-10P49:1 C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
2	5.6758E-7	IE-T3	1SWPSB-UM-1SWP-4 C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
3	7.4652E-8	IE-T3	1SWMOV-FC-1SW117 C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
4	2.1578E-8	IE-T3	1SWPSB-FS-1SWP-4 C-LT01	C-RC303	1SWSCN-CC-SWRES	REC-SCREEN-TURNS

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T3TRP06.MGP                      12:22    9/28/1992  
 Top event unavailability            =    2.825E-7  
 Number of cut sets in equation     =            160  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            8  
 Basic Event Data file referenced   =    NAPS1

1	1.2968E-7	1E-13	HEP-10P49:1	C-LT01	HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS	
2	8.1072E-8	1E-13	1SWPSB-UM-1SWP-4	C-LT01	HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS	
3	1.5936E-8	1E-13	1SW-HOTWEA-9MO	1SWPIP-UM-HDRA	C-LT01	HEP-OAP55-40HR	1HVSTR-PL-1HVS1A	2HVSTR-PG-2HVS1B
4	1.5936E-8	1E-13	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B	2HVSTR-PL-2HVS1A
5	1.0663E-8	1E-13	1SWMOV-FC-1SW117	C-LT01	HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS	
6	6.4830E-9	1E-13	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B
7	5.3121E-9	1E-13	1SW-COLDWEA-3MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B	2HVSTR-PL-2HVS1A
8	5.3121E-9	1E-13	1SWPIP-UM-HDRA	1SW-COLDWEA-3MO	C-LT01	HEP-OAP55-40HR	1HVSTR-PL-1HVS1A	2HVSTR-PG-2HVS1B
9	3.0822E-9	1E-13	1SWPSB-FS-1SWP-4	C-LT01	HEP-OAP55-40HR	1SWSCN-CC-SWRES	REC-SCREEN-TURNS	
10	2.1610E-9	1E-13	1SW-COLDWEA-3MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B
11	6.3893E-10	1E-13	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	C-LT01	HEP-OAP55-40HR	1HVSTR-PG-1HVS1B	2IAIAS-LF-OUT1A REC-2AP2B
12	2.7230E-10	1E-13	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
13	2.5698E-10	1E-13	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
14	2.5698E-10	1E-13	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
15	1.4341E-10	1E-13	1HVPAT-FR-HVP20A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
16	1.4341E-10	1E-13	1HVPAT-FR-HVP22A	1HVCHU-CC-HVE4	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
17	1.3535E-10	1E-13	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVPAT-FR-HVP20A	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T3TRP11.MGP                      12:17    9/28/1992  
 Top event unavailability            =    1.669E-6  
 Number of cut sets in equation    =            776  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            9  
 Basic Event Data file referenced   =    NAPS1

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1	1.5131E-6	IE-T3	C-LT01	HEP-1FRH:1-11	11AIAS-LF-OUTIA	REC-1AP28			
2	3.5984E-8	IE-T3	C-LT01	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	11AIAS-LF-OUTIA	REC-1AP28		
3	1.9883E-8	IE-T3	C-LT01	1SICKV-FC-1S147	11AIAS-LF-OUTIA	REC-1AP28			
4	1.5581E-8	IE-T3	C-LT01	1CHPAT-CC-FS1ABC	11AIAS-LF-OUTIA	REC-1AP28			
5	1.2243E-8	IE-T3	C-LT01	1SIMOV-CC-867836	11AIAS-LF-OUTIA	REC-1AP28			
6	1.2243E-8	IE-T3	C-LT01	1SIMOV-CC-1115CE	11AIAS-LF-OUTIA	REC-1AP28			
7	1.2243E-8	IE-T3	C-LT01	1SIMOV-CC-1115BD	11AIAS-LF-OUTIA	REC-1AP28			
8	3.7290E-9	IE-T3	C-LT01	1SIMOV-FO-1115E	1SIMOV-FO-1115C	11AIAS-LF-OUTIA	REC-1AP28		
9	3.7290E-9	IE-T3	C-LT01	1SIMOV-FC-1115D	1SIMOV-FC-1115B	11AIAS-LF-OUTIA	REC-1AP28		
10	1.9882E-9	IE-T3	C-LT01	1SICKV-CC-79185	11AIAS-LF-OUTIA	REC-1AP28			
11	1.4112E-9	IE-T3	C-LT01	1SIMV-PG-1S146	11AIAS-LF-OUTIA	REC-1AP28			
12	4.0383E-10	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	1RCRV--CC-RCPORV	HEP-1FRH:1-11		
13	4.0383E-10	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	1MSRV--CC-101ABC	HEP-1FRH:1-11		
14	3.8112E-10	IE-T3	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1RCRV--CC-RCPORV	HEP-1FRH:1-11	
15	3.8112E-10	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1RCRV--CC-RCPORV	HEP-1FRH:1-11	
16	3.8112E-10	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1MSRV--CC-101ABC	HEP-1FRH:1-11	
17	3.8112E-10	IE-T3	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	1MSRV--CC-101ABC	HEP-1FRH:1-11	
18	3.6831E-10	IE-T3	C-LT01	1CHPAT-FS-1CHP1A	1SWTCV-FC-SW102B	1CHPAT-UM-1CHP1C	11AIAS-LF-OUTIA	REC-1AP28	
19	3.4362E-10	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	C-LT01	HEP-1ES1:2-S2	HEP-1FRH:1-11		
20	3.2429E-10	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	C-LT01	HEP-1ES1:2-S2	HEP-1FRH:1-11	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T3TRP22.MGP                      12:24      9/28/1992  
 Top event unavailability            =      1.196E-7  
 Number of cut sets in equation    =            827  
 Cutoff value used last step        =      1.000E-11  
 Longest cut set (# of events)      =            7  
 Basic Event Data file referenced =      NAPS1

1	9.8289E-9	IE-T3	1FWTRB-FR-12HP2	HEP-OAP55-10HR	11AIAS-LF-OUT1A	REC-1AP28	
2	3.1745E-9	IE-T3	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	11AIAS-LF-OUT1A	REC-1AP28	
3	2.6263E-9	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
4	2.4786E-9	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
5	2.4786E-9	IE-T3	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
6	2.3385E-9	IE-T3	1FWTRB-UM-1FWP2	HEP-OAP55-10HR	11AIAS-LF-OUT1A	REC-1AP28	
7	1.3832E-9	IE-T3	1HVPAT-FR-HVP20A	1HVCHU-CC-HVE4	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
8	1.3832E-9	IE-T3	1HVPAT-FR-HVP22A	1HVCHU-CC-HVE4	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
9	1.3054E-9	IE-T3	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVPAT-FR-HVP20A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
10	1.3054E-9	IE-T3	1HVCHU-FS-1HVE4C	1HVCHU-UM-1HVE4B	1HVPAT-FR-HVP22A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
11	1.3054E-9	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVPAT-FR-HVP20A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
12	1.3054E-9	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVPAT-FR-HVP22A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
13	1.3051E-9	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-UM-HVE4BC	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
14	1.2154E-9	IE-T3	1EEBKR-SO-14H4	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
15	1.2154E-9	IE-T3	1EEBKR-SO-15H8	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
16	1.2154E-9	IE-T3	1EEBKR-SO-14H1	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
17	1.1935E-9	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-FS-1HVE4B	1HVCHU-FS-1HVE4C	1FWTRB-FR-12HP2	HEP-OAP55-10HR
18	1.0468E-9	IE-T3	1HVCHU-FR-1HVE4A	1HVPCV-CC-1235	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
19	9.8820E-10	IE-T3	1HVPCV-FC-1235C1	1HVCHU-UM-1HVE4B	1HVCHU-FR-1HVE4A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
20	9.8820E-10	IE-T3	1HVCHU-UM-1HVE4C	1HVPCV-FC-1235B1	1HVCHU-FR-1HVE4A	1FWTRB-FR-12HP2	HEP-OAP55-10HR
21	9.4329E-10	IE-T3	1HVFAN-FR-1FMO6	1HVTCV-FC-TCV167	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
22	8.4823E-10	IE-T3	1HVCHU-FR-1HVE4A	1HVCHU-CC-HVE4	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	
23	8.0053E-10	IE-T3	1HVCHU-UM-1HVE4C	1HVCHU-FS-1HVE4B	1HVCHU-FR-1HVE4A	1FWTRB-FS-1FWP2	HEP-OAP55-10HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T3TRP23.MGP                      12:22    9/28/1992  
 Top event unavailability            =    1.842E-7  
 Number of cut sets in equation    =            21  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            6  
 Basic Event Data file referenced   =    NAPS1

1	6.5697E-8	1E-13	HEP-10P49:1	1FWTRB-FR-12HP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
2	4.1071E-8	1E-13	1SWPSB-UM-1SWP-4	1FWTRB-FR-12HP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
3	2.1218E-8	1E-13	HEP-10P49:1	1FWTRB-FS-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
4	1.5631E-8	1E-13	HEP-10P49:1	1FWTRB-UM-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
5	1.3265E-8	1E-13	1SWPSB-UM-1SWP-4	1FWTRB-FS-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
6	9.7719E-9	1E-13	1SWPSB-UM-1SWP-4	1FWTRB-UM-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
7	5.4020E-9	1E-13	1SWMOV-FC-1SW117	1FWTRB-FR-12HP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
8	2.0736E-9	1E-13	HEP-10P49:1	1MSAOV-CC-111AB	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
9	1.7447E-9	1E-13	1SWMOV-FC-1SW117	1FWTRB-FS-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
10	1.5614E-9	1E-13	1SWPSB-FS-1SWP-4	1FWTRB-FR-12HP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
11	1.2964E-9	1E-13	1SWPSB-UM-1SWP-4	1MSAOV-CC-111AB	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
12	1.2853E-9	1E-13	1SWMOV-FC-1SW117	1FWTRB-UM-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
13	8.5805E-10	1E-13	HEP-10P49:1	1FWHEP-1FW543	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
14	7.2536E-10	1E-13	HEP-10P49:1	1FWCKV-FC-1FW148	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
15	5.3643E-10	1E-13	1SWPSB-UM-1SWP-4	1FWHEP-1FW543	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
16	5.0431E-10	1E-13	1SWPSB-FS-1SWP-4	1FWTRB-FS-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
17	4.5347E-10	1E-13	1SWPSB-UM-1SWP-4	1FWCKV-FC-1FW148	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
18	3.7579E-10	1E-13	HEP-10P49:1	1MSAOV-FC-TV111A	1MSAOV-FC-TV111A	1SWSCN-CC-SWRES REC-SCREEN-TURNS
19	3.7151E-10	1E-13	1SWPSB-FS-1SWP-4	1FWTRB-UM-1FWP2	1SWSCN-CC-SWRES	REC-SCREEN-TURNS
20	2.3493E-10	1E-13	1SWPSB-UM-1SWP-4	1MSAOV-FC-TV111A	1MSAOV-FC-TV111A	1SWSCN-CC-SWRES REC-SCREEN-TURNS
21	1.7051E-10	1E-13	1SWMOV-FC-1SW117	1MSAOV-CC-111AB	1SWSCN-CC-SWRES	REC-SCREEN-TURNS

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T7P03.MGP	12:16	9/28/1992
Top event unavailability	=	1.983E-6	
Number of cut sets in equation	=	276	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

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1	4.0739E-7	IE-T7	C-SG101	HEP-1E3-13	1RHHCV-FC-1758	REC-10P14:1	
2	2.4512E-7	IE-T7	C-SG101	HEP-1E3-13	1RHMOV-FC-1700	REC-10P14:1	
3	2.4512E-7	IE-T7	C-SG101	HEP-1E3-13	1RHMOV-FC-1701	REC-10P14:1	
4	1.6988E-7	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE1B	1RHHEX-LF-1RHE1A	
5	1.6988E-7	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE2B	1RHHEX-LF-1RHE2A	
6	8.8478E-8	IE-T7	C-SG101	HEP-1E3-13	1RHFEL-PG-1605		
7	8.4769E-8	IE-T7	C-SG101	HEP-1E3-13	1RHPSB-CC-1RNP1		
8	6.7246E-8	IE-T7	C-SG101	HEP-1E3-13	1EP-LOOP-24		
9	3.7859E-8	IE-T7	C-SG101	HEP-1E3-13	HEP-10P14:1-5:13	1RCPIC-LF-PC403	
10	3.7859E-8	IE-T7	C-SG101	HEP-1E3-13	HEP-10P14:1-5:13	1RCPIC-LF-PC402	
11	2.3798E-8	IE-T7	C-SG101	HEP-1E3-13	1RHPSB-FS-1RNP1A	1RHHEX-LF-1RHE2B	
12	2.3798E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE2A	1RHPSB-FS-1RNP1B	
13	2.2690E-8	IE-T7	C-SG101	HEP-1E3-13	1RHPSB-UM-1RNP1B	1RHHEX-LF-1RHE2A	
14	2.2690E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE2B	1RHPSB-UM-1RNP1A	
15	1.3665E-8	IE-T7	C-SG101	HEP-1E3-13	1SICKV-CC-144161		
16	1.3665E-8	IE-T7	C-SG101	HEP-1E3-13	1RHCKV-CC-1RH715		
17	1.1437E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE1B	1CCA0V-FC-TV103A	REC-10P14:1
18	1.1437E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE2A	1CCA0V-FC-TV103B	REC-10P14:1
19	1.1437E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE2B	1CCA0V-FC-TV103A	REC-10P14:1
20	1.1437E-8	IE-T7	C-SG101	HEP-1E3-13	1RHHEX-LF-1RHE1A	1CCA0V-FC-TV103B	REC-10P14:1
21	8.7749E-9	IE-T7	C-SG101	HEP-1E3-13	1CCMOV-CC-100AB	REC-10P14:1	
22	8.7749E-9	IE-T7	C-SG101	HEP-1E3-13	1RHMOV-CC-1720	REC-10P14:1	
23	7.3829E-9	IE-T7	C-SG101	HEP-1E3-13	1CCA0V-FC-TV103A	REC-10P14:1	1CCA0V-FC-TV103B

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T7P04.MGP	12:15	9/28/1992
Top event unavailability	=	2.983E-6	
Number of cut sets in equation	=	424	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

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1	6.5198E-7	IE-17	C-SG101	NEP-1E3-13	NEP-1ECA3:1-16				
2	3.3188E-7	IE-17	C-SG101	1EEBKR-SO-14H1	1EE-BAT-11-2HR	1EE-BAT-1-2HR			
3	3.3188E-7	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBKR-SO-15H8			
4	3.3188E-7	IE-17	C-SG101	1EEBKR-SO-14H2	1EE-BAT-11-2HR	1EE-BAT-1-2HR			
5	1.8781E-7	IE-17	C-SG101	1EETFM-LP-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR			
6	1.7901E-7	IE-17	C-SG101	1RCPCV-FC-1455A	1RCRV--CC-RCPORV				
7	1.2011E-7	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H			
8	1.2011E-7	IE-17	C-SG101	1EEBUS-LU-1H1-4	1EE-BAT-11-2HR	1EE-BAT-1-2HR			
9	1.2011E-7	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H-480			
10	1.2011E-7	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H1			
11	9.8880E-8	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-UM-1H-480			
12	9.8880E-8	IE-17	C-SG101	1EEBUS-UM-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR			
13	9.8880E-8	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-UM-1H1-4			
14	1.9753E-8	IE-17	C-SG101	1EEBUS-UM-DC-111	1RCRV--FC-1455C				
15	1.7901E-8	IE-17	C-SG101	1MSRV--CC-101ABC	1MSTCV-CC-1408AB				
16	1.7901E-8	IE-17	C-SG101	1RCPCV-CC-1455AB	1RCRV--CC-RCPORV				
17	1.7880E-8	IE-17	C-SG101	1RCPCV-FC-1455A	1RCRV--FC-1455C	1RCRV--FC-1456			
18	7.8332E-9	IE-17	C-SG101	1RCRV--CC-RCPORV	1RCPAT-FR-1RCP1A				
19	5.8729E-9	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EGEDG-UM-1H	2EGEDG-UM-2J	1EP-LOOP-24	
20	4.7271E-9	IE-17	C-SG101	1EP-LOOP-24	2EGEDG-UM-2J	1EGEDG-FS-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
21	4.3866E-9	IE-17	C-SG101	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EGEDG-FR-1H	2EGEDG-UM-2J	1EP-LOOP-24	



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T7P06.MGP		12:18	9/28/1992
Top event unavailability	=	1.103E-6	
Number of cut sets in equation	=	1082	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	6	
Basic Event Data file referenced	=	NAPS1	

1	6.8969E-8	IE-17	HEP-1E3-3	1RHNCV-FC-1758	REC-10P14:1
2	6.5055E-8	IE-17	1MSCKV-FO-1MS58	1RHNCV-FC-1758	REC-10P14:1
3	6.5055E-8	IE-17	1MSCKV-FO-1MS19	1RHNCV-FC-1758	REC-10P14:1
4	5.6531E-8	IE-17	1MSAOV-FO-TV101C	1EP-LOOP-24	
5	4.1497E-8	IE-17	HEP-1E3-3	1RHMOV-FC-1700	REC-10P14:1
6	4.1497E-8	IE-17	HEP-1E3-3	1RHMOV-FC-1701	REC-10P14:1
7	3.9142E-8	IE-17	1MSCKV-FO-1MS19	1RHMOV-FC-1701	REC-10P14:1
8	3.9142E-8	IE-17	1MSCKV-FO-1MS19	1RHMOV-FC-1700	REC-10P14:1
9	3.9142E-8	IE-17	1MSCKV-FO-1MS58	1RHMOV-FC-1701	REC-10P14:1
10	3.9142E-8	IE-17	1MSCKV-FO-1MS58	1RHMOV-FC-1700	REC-10P14:1
11	2.8760E-8	IE-17	HEP-1E3-3	1RHHEX-LF-1RHE2B	1RHHEX-LF-1RHE2A
12	2.8760E-8	IE-17	HEP-1E3-3	1RHHEX-LF-1RHE1B	1RHHEX-LF-1RHE1A
13	2.7128E-8	IE-17	1MSCKV-FO-1MS19	1RHHEX-LF-1RHE1B	1RHHEX-LF-1RHE1A
14	2.7128E-8	IE-17	1MSCKV-FO-1MS58	1RHHEX-LF-1RHE2B	1RHHEX-LF-1RHE2A
15	2.7128E-8	IE-17	1MSCKV-FO-1MS58	1RHHEX-LF-1RHE1B	1RHHEX-LF-1RHE1A
16	2.7128E-8	IE-17	1MSCKV-FO-1MS19	1RHHEX-LF-1RHE2B	1RHHEX-LF-1RHE2A
17	1.4979E-8	IE-17	HEP-1E3-3	1RHFEL-PG-1605	
18	1.4351E-8	IE-17	HEP-1E3-3	1RHPSB-CC-1RHP1	
19	1.4129E-8	IE-17	1MSCKV-FO-1MS19	1RHFEL-PG-1605	
20	1.4129E-8	IE-17	1MSCKV-FO-1MS58	1RHFEL-PG-1605	
21	1.3537E-8	IE-17	1MSCKV-FO-1MS58	1RHPSB-CC-1RHP1	
22	1.3537E-8	IE-17	1MSCKV-FO-1MS19	1RHPSB-CC-1RHP1	
23	1.1384E-8	IE-17	HEP-1E3-3	1EP-LOOP-24	
24	1.0738E-8	IE-17	1MSCKV-FO-1MS19	1EP-LOOP-24	
25	1.0738E-8	IE-17	1MSCKV-FO-1MS58	1EP-LOOP-24	
26	9.4465E-9	IE-17	1MSSRV-DMD17	1MSSV--FO-101C	1RHNCV-FC-1758 REC-10P14:1
27	6.4092E-9	IE-17	HEP-1E3-3	HEP-10P14:1-5:13	1RCPIC-LF-PC403
28	6.4092E-9	IE-17	HEP-1E3-3	HEP-10P14:1-5:13	1RCPIC-LF-PC402

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T7P07.MGP		12:24	9/28/1992
Top event unavailability	=	1.094E-7	
Number of cut sets in equation	=	164	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

1	2.6454E-8	IE-17	HEP-1E3-3	HEP-1ECA3:2-5		
2	2.4953E-8	IE-17	1MSCKV-FO-1MS19	HEP-1ECA3:2-5		
3	2.4953E-8	IE-17	1MSCKV-FO-1MS58	HEP-1ECA3:2-5		
4	3.6233E-9	IE-17	1MSSRV-DMD17	1MSSV--FO-101C	HEP-1ECA3:2-5	
5	1.4323E-9	IE-17	1MSAOV-FO-TV101C	1MSMOV-FO-NRV101	HEP-1ECA3:2-5	
6	1.2247E-9	IE-17	HEP-1E3-3	1EEBKR-SO-14N1	1EE-BAT-11-2HR	1EE-BAT-1-2HR
7	1.2247E-9	IE-17	HEP-1E3-3	1EEBKR-SO-14N2	1EE-BAT-11-2HR	1EE-BAT-1-2HR
8	1.2247E-9	IE-17	HEP-1E3-3	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBKR-SO-15H8
9	1.1552E-9	IE-17	1MSCKV-FO-1MS19	1EEBKR-SO-14N1	1EE-BAT-11-2HR	1EE-BAT-1-2HR
10	1.1552E-9	IE-17	1MSCKV-FO-1MS19	1EEBKR-SO-14N2	1EE-BAT-11-2HR	1EE-BAT-1-2HR
11	1.1552E-9	IE-17	1MSCKV-FO-1MS19	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBKR-SO-15H8
12	1.1552E-9	IE-17	1MSCKV-FO-1MS58	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBKR-SO-15H8
13	1.1552E-9	IE-17	1MSCKV-FO-1MS58	1EEBKR-SO-14N1	1EE-BAT-11-2HR	1EE-BAT-1-2HR
14	1.1552E-9	IE-17	1MSCKV-FO-1MS58	1EEBKR-SO-14N2	1EE-BAT-11-2HR	1EE-BAT-1-2HR
15	9.0595E-10	IE-17	1MSMV--FO-1MS95	HEP-1ECA3:2-5		
16	6.9302E-10	IE-17	HEP-1E3-3	1EETFM-LP-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR
17	6.6056E-10	IE-17	HEP-1E3-3	1RCPCV-FC-1455A	1RCRV--CC-RCPORV	
18	6.5370E-10	IE-17	1MSCKV-FO-1MS58	1EETFM-LP-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR
19	6.5370E-10	IE-17	1MSCKV-FO-1MS19	1EETFM-LP-1H	1EE-BAT-11-2HR	1EE-BAT-1-2HR
20	6.2307E-10	IE-17	1MSCKV-FO-1MS58	1RCPCV-FC-1455A	1RCRV--CC-RCPORV	
21	6.2307E-10	IE-17	1MSCKV-FO-1MS19	1RCPCV-FC-1455A	1RCRV--CC-RCPORV	
22	4.4323E-10	IE-17	HEP-1E3-3	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H
23	4.4323E-10	IE-17	HEP-1E3-3	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H-480
24	4.4323E-10	IE-17	HEP-1E3-3	1EE-BAT-1-2HR	1EE-BAT-11-2HR	1EEBUS-LU-1H1
25	4.4323E-10	IE-17	HEP-1E3-3	1EEBUS-LU-1H1-4	1EE-BAT-11-2HR	1EE-BAT-1-2HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T7P23.MGP	12:23	9/28/1992
Top event unavailability	=	1.796E-7	
Number of cut sets in equation	=	319	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	5.0370E-8	IE-T7	1QSMV--PG-1Q538	C-L08	C-SG101	HEP-1ECA3:3-27	
2	4.7312E-8	IE-T7	1SICKV-CC-838689	C-L08	C-SG101	HEP-1ECA3:3-27	
3	3.8844E-9	IE-T7	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	C-SG101	HEP-1ECA3:3-27 1SIPSB-UM-1SIP1A
4	3.8844E-9	IE-T7	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	C-SG101	HEP-1ECA3:3-27 1SIPSB-UM-1SIP1B
5	3.4404E-9	IE-T7	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	C-SG101	HEP-1ECA3:3-27 1SIPSB-FS-1SIP1A
6	3.4404E-9	IE-T7	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	C-SG101	HEP-1ECA3:3-27 1SIPSB-FS-1SIP1B
7	2.7048E-9	IE-T7	1SWTCV-FC-SW102B	1EEBUS-UM-DC-1	C-L08	C-SG101	HEP-1ECA3:3-27
8	2.1464E-9	IE-T7	1SICKV-FC-1S147	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1A
9	2.1464E-9	IE-T7	1SICKV-FC-1S147	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1B
10	1.9010E-9	IE-T7	1SICKV-FC-1S147	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-FS-1SIP1B
11	1.9010E-9	IE-T7	1SICKV-FC-1S147	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-FS-1SIP1A
12	1.6820E-9	IE-T7	1CHPAT-CC-FS1ABC	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1A
13	1.6820E-9	IE-T7	1CHPAT-CC-FS1ABC	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1B
14	1.4897E-9	IE-T7	1CHPAT-CC-FS1ABC	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-FS-1SIP1B
15	1.4897E-9	IE-T7	1CHPAT-CC-FS1ABC	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-FS-1SIP1A
16	1.3216E-9	IE-T7	1SIMOV-CC-1115BD	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1A
17	1.3216E-9	IE-T7	1SIMOV-CC-1115BD	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1B
18	1.3216E-9	IE-T7	1SIMOV-CC-1115CE	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1B
19	1.3216E-9	IE-T7	1SIMOV-CC-1115CE	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1A
20	1.3216E-9	IE-T7	1SIMOV-CC-867836	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1B
21	1.3216E-9	IE-T7	1SIMOV-CC-867836	C-L08	C-SG101	HEP-1ECA3:3-27	1SIPSB-UM-1SIP1A

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T7P26.MGP                      12:21    9/28/1992  
Top event unavailability            =    3.848E-7  
Number of cut sets in equation    =            310  
Cutoff value used last step        =    1.000E-11  
Longest cut set (# of events)      =            7  
Basic Event Data file referenced =    NAPS1

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1	3.5210E-8	IE-17	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	HEP-1E3-3	
2	3.3212E-8	IE-17	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	1MSCKV-FO-1MS58	
3	3.3212E-8	IE-17	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	1MSCKV-FO-1MS19	
4	1.9456E-8	IE-17	1SICKV-FC-1S147	C-L08	HEP-1E3-3		
5	1.8352E-8	IE-17	1SICKV-FC-1S147	C-L08	1MSCKV-FO-1MS58		
6	1.8352E-8	IE-17	1SICKV-FC-1S147	C-L08	1MSCKV-FO-1MS19		
7	1.5246E-8	IE-17	1CHPAT-CC-FS1ABC	C-L08	HEP-1E3-3		
8	1.4381E-8	IE-17	1CHPAT-CC-FS1ABC	C-L08	1MSCKV-FO-1MS58		
9	1.4381E-8	IE-17	1CHPAT-CC-FS1ABC	C-L08	1MSCKV-FO-1MS19		
10	1.1980E-8	IE-17	1SIMOV-CC-1115BD	C-L08	HEP-1E3-3		
11	1.1980E-8	IE-17	1SIMOV-CC-867836	C-L08	HEP-1E3-3		
12	1.1980E-8	IE-17	1SIMOV-CC-1115CE	C-L08	HEP-1E3-3		
13	1.1300E-8	IE-17	1SIMOV-CC-867836	C-L08	1MSCKV-FO-1MS19		
14	1.1300E-8	IE-17	1SIMOV-CC-867836	C-L08	1MSCKV-FO-1MS58		
15	1.1300E-8	IE-17	1SIMOV-CC-1115BD	C-L08	1MSCKV-FO-1MS19		
16	1.1300E-8	IE-17	1SIMOV-CC-1115BD	C-L08	1MSCKV-FO-1MS58		
17	1.1300E-8	IE-17	1SIMOV-CC-1115CE	C-L08	1MSCKV-FO-1MS19		
18	1.1300E-8	IE-17	1SIMOV-CC-1115CE	C-L08	1MSCKV-FO-1MS58		
19	4.8227E-9	IE-17	HEP-NO-PROCEDURE	1CHCKV-FO-1CH254	C-L08	1MSSRV-DMDT7	1MSSV--FO-101C
20	3.6489E-9	IE-17	1SIMOV-FC-1115D	1SIMOV-FC-1115B	C-L08	HEP-1E3-3	
21	3.6489E-9	IE-17	1SIMOV-FO-1115E	1SIMOV-FO-1115C	C-L08	HEP-1E3-3	
22	3.4418E-9	IE-17	1SIMOV-FO-1115E	1SIMOV-FO-1115C	C-L08	1MSCKV-FO-1MS58	
23	3.4418E-9	IE-17	1SIMOV-FC-1115D	1SIMOV-FC-1115B	C-L08	1MSCKV-FO-1MS19	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T8P02.MGP	12:16	9/28/1992
Top event unavailability	=	2.518E-6	
Number of cut sets in equation	=	353	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

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1	1.3570E-6	IE-T8	C-LT01	NEP-OAP55-20HR	C-RC303		
2	1.3374E-7	IE-T8	C-LT01	C-RC303	2IAIAS-LF-OUT1A	REC-2AP28	
3	1.8917E-8	IE-T8	C-LT01	2EEBUS-UM-2H-480	2HVTCV-FC-TCV266	C-RC303	
4	1.8917E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-1	2HVTCV-FC-TCV266	C-RC303	
5	1.8917E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-1	2HVPCV-FC-2235B1	C-RC303	
6	1.8917E-8	IE-T8	C-LT01	2EEBUS-UM-2H-480	2HVPCV-FC-2235B1	C-RC303	
7	1.8917E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-4	2HVPCV-FC-2235B1	C-RC303	
8	1.8917E-8	IE-T8	C-LT01	2HVTCV-FC-TCV266	2EEBUS-UM-2H	C-RC303	
9	1.8917E-8	IE-T8	C-LT01	2HVPCV-FC-2235B1	2EEBUS-UM-2H	C-RC303	
10	1.8821E-8	IE-T8	C-LT01	2HVPAT-FR-HVP22A	2HVCHU-CC-HVE4	C-RC303	
11	1.8821E-8	IE-T8	C-LT01	2HVPAT-FR-HVP20A	2HVCHU-CC-HVE4	C-RC303	
12	1.6537E-8	IE-T8	C-LT01	2HVCHU-UM-2HVE4B	2EEBKR-SO-25H8	C-RC303	
13	1.6537E-8	IE-T8	C-LT01	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H1	C-RC303	
14	1.6537E-8	IE-T8	C-LT01	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H4	C-RC303	
15	1.6537E-8	IE-T8	C-LT01	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H2	C-RC303	
16	1.2835E-8	IE-T8	C-LT01	2HVTCV-FC-TCV266	2HVFAN-FR-2FM07	C-RC303	
17	1.1908E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-1	C-RC303	2HVCHU-FS-2HVE4B	REC-MMP-C-MR-2
18	1.1908E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-4	C-RC303	2HVCHU-FS-2HVE4B	REC-MMP-C-MR-2
19	1.1908E-8	IE-T8	C-LT01	2EEBUS-UM-2H	C-RC303	2HVCHU-FS-2HVE4B	REC-MMP-C-MR-2
20	1.1908E-8	IE-T8	C-LT01	2EEBUS-UM-2H-480	C-RC303	2HVCHU-FS-2HVE4B	REC-MMP-C-MR-2
21	1.1382E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-1	2HVMOV-FC-211B	C-RC303	
22	1.1382E-8	IE-T8	C-LT01	2EEBUS-UM-2H1-1	2HVMOD-FO-MOD238	C-RC303	
23	1.1382E-8	IE-T8	C-LT01	2EEBUS-UM-2H-480	2HVMOD-FO-MOD238	C-RC303	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T8P06.MGP                      12:20    9/28/1992  
 Top event unavailability        =    6.059E-7  
 Number of cut sets in equation   =            357  
 Cutoff value used last step      =    1.000E-11  
 Longest cut set (# of events)    =            6  
 Basic Event Data file referenced =    NAPS1

1	1.9384E-7	1E-18	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR		
2	1.2153E-7	1E-18	C-LT01	1SW-HOTWEA-9MO	1SWPIP-UM-HDRA	HEP-OAP55-40HR	2HVSTR-PG-2HVS1B
3	4.0510E-8	1E-18	C-LT01	1SWPIP-UM-HDRA	1SW-COLDWEA-3MO	HEP-OAP55-40HR	2HVSTR-PG-2HVS1B
4	1.9103E-8	1E-18	C-LT01	HEP-OAP55-40HR	2IAIAS-LF-OUT1A	REC-2AP2B	
5	8.1512E-9	1E-18	C-LT01	1SW-HOTWEA-9MO	1SWPIP-UM-HDRB	HEP-OAP55-40HR	2HVSTR-PL-2HVS1A
6	6.7774E-9	1E-18	C-LT01	2EEBUS-UM-2H-480	HEP-OAP55-40HR	2HVCHU-FS-2HVE4B	
7	6.7774E-9	1E-18	C-LT01	2EEBUS-UM-2H	HEP-OAP55-40HR	2HVCHU-FS-2HVE4B	
8	6.7774E-9	1E-18	C-LT01	2EEBUS-UM-2H1-4	HEP-OAP55-40HR	2HVCHU-FS-2HVE4B	
9	6.7774E-9	1E-18	C-LT01	2EEBUS-UM-2H1-1	HEP-OAP55-40HR	2HVCHU-FS-2HVE4B	
10	5.1044E-9	1E-18	C-LT01	2HVCHU-CC-HVE4	HEP-OAP55-40HR	2HVCHU-FR-2HVE4A	
11	4.8174E-9	1E-18	C-LT01	2HVCHU-UM-2HVE4C	HEP-OAP55-40HR	2HVCHU-FR-2HVE4A	2HVCHU-FS-2HVE4B
12	4.8174E-9	1E-18	C-LT01	2HVCHU-UM-2HVE4B	HEP-OAP55-40HR	2HVCHU-FR-2HVE4A	2HVCHU-FS-2HVE4C
13	2.7171E-9	1E-18	C-LT01	1SW-COLDWEA-3MO	1SWPIP-UM-HDRB	HEP-OAP55-40HR	2HVSTR-PL-2HVS1A
14	2.7021E-9	1E-18	C-LT01	2EEBUS-UM-2H1-4	2HVPCV-FC-2235B1	HEP-OAP55-40HR	
15	2.7021E-9	1E-18	C-LT01	2EEBUS-UM-2H-480	2HVTCV-FC-TCV266	HEP-OAP55-40HR	
16	2.7021E-9	1E-18	C-LT01	2HVTCV-FC-TCV266	2EEBUS-UM-2H	HEP-OAP55-40HR	
17	2.7021E-9	1E-18	C-LT01	2EEBUS-UM-2H-480	2HVPCV-FC-2235B1	HEP-OAP55-40HR	
18	2.7021E-9	1E-18	C-LT01	2EEBUS-UM-2H1-1	2HVPCV-FC-2235B1	HEP-OAP55-40HR	
19	2.7021E-9	1E-18	C-LT01	2HVPCV-FC-2235B1	2EEBUS-UM-2H	HEP-OAP55-40HR	
20	2.7021E-9	1E-18	C-LT01	2EEBUS-UM-2H1-1	2HVTCV-FC-TCV266	HEP-OAP55-40HR	
21	2.6884E-9	1E-18	C-LT01	2HVPAT-FR-HVP20A	2HVCHU-CC-HVE4	HEP-OAP55-40HR	
22	2.6884E-9	1E-18	C-LT01	2HVPAT-FR-HVP22A	2HVCHU-CC-HVE4	HEP-OAP55-40HR	
23	2.5372E-9	1E-18	C-LT01	2HVPAT-FR-HVP20A	2HVCHU-UM-2HVE4B	HEP-OAP55-40HR	2HVCHU-FS-2HVE4C

TABLE B.2-11 (Continued)  
 "TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"

T8P22.MGP		12:14	9/28/1992
Top event unavailability	=	3.169E-6	
Number of cut sets in equation	=	1069	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	6	
Basic Event Data file referenced	=	NAPS1	

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1	1.8695E-6	1E-T8	1FWTRB-FR-12HP2	HEP-OAP55-10HR	
2	6.0381E-7	1E-T8	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	
3	4.4481E-7	1E-T8	1FWTRB-UM-1FWP2	HEP-OAP55-10HR	
4	5.9009E-8	1E-T8	1MSAOV-CC-111AB	HEP-OAP55-10HR	
5	2.4418E-8	1E-T8	1FWHEP-1FW543	HEP-OAP55-10HR	
6	2.0641E-8	1E-T8	1FWCKV-FC-1FW148	HEP-OAP55-10HR	
7	1.0694E-8	1E-T8	1MSAOV-FC-TV111B	1MSAOV-FC-TV111A	HEP-OAP55-10HR
8	9.6778E-9	1E-T8	1FWTRB-FR-12HP2	2IAIAS-LF-OUT1A	REC-2AP28
9	3.1257E-9	1E-T8	1FWTRB-FS-1FWP2	2IAIAS-LF-OUT1A	REC-2AP28
10	2.3026E-9	1E-T8	1FWTRB-UM-1FWP2	2IAIAS-LF-OUT1A	REC-2AP28
11	2.0641E-9	1E-T8	1FWCKV-CC-ALLAFW	HEP-OAP55-10HR	
12	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2HVTCV-FC-TCV266	2EEBUS-UM-2H
13	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2HVPCV-FC-2235B1	2EEBUS-UM-2H
14	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H1-1	2HVTCV-FC-TCV266
15	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H1-4	2HVPCV-FC-2235B1
16	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H-480	2HVTCV-FC-TCV266
17	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H1-1	2HVPCV-FC-2235B1
18	1.3689E-9	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H-480	2HVPCV-FC-2235B1
19	1.3619E-9	1E-T8	1FWTRB-FR-12HP2	2HVPAT-FR-HVP20A	2HVCHU-CC-HVE4
20	1.3619E-9	1E-T8	1FWTRB-FR-12HP2	2HVPAT-FR-HVP22A	2HVCHU-CC-HVE4
21	1.1967E-9	1E-T8	1FWTRB-FR-12HP2	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H2
22	1.1967E-9	1E-T8	1FWTRB-FR-12HP2	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H4
23	1.1967E-9	1E-T8	1FWTRB-FR-12HP2	2HVCHU-UM-2HVE4B	2EEBKR-SO-25H8
24	1.1967E-9	1E-T8	1FWTRB-FR-12HP2	2HVCHU-UM-2HVE4B	2EEBKR-SO-24H1
25	9.2879E-10	1E-T8	1FWTRB-FR-12HP2	2HVTCV-FC-TCV266	2HVFAN-FR-2FMO7
26	8.6169E-10	1E-T8	1FWTRB-FR-12HP2	2EEBUS-UM-2H1-1	2HVCHU-FS-2HVE4B REC-MMP-C-MR-2

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9AP02.MGP                      12:23    9/28/1992  
 Top event unavailability        =    1.719E-7  
 Number of cut sets in equation   =            113  
 Cutoff value used last step      =    1.000E-11  
 Longest cut set (# of events)    =            8  
 Basic Event Data file referenced =    NAPS1

1	2.6372E-8	C-HV05	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4
2	1.1253E-8	1EGEDG-FS-1H	C-HV05	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-500KV-1 REC-1FRH:1-4
3	1.0442E-8	1EGEDG-FR-1H	C-HV05	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-500KV-1 REC-1FRH:1-4
4	8.0561E-9	C-HV05	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3B	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4
5	7.9821E-9	C-HV05	HEP-1AP22:5	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4	
6	4.5011E-9	1EGEDG-FS-1H	C-HV05	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-RSST-C REC-1FRH:1-4
7	4.3846E-9	C-HV05	1FWTRB-FS-1FWP2	1FWPSB-UM-1FWP3B	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4
8	4.2708E-9	1EGEDG-UM-1H	C-HV05	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3B	C-QS05	C-H105	T9A-FREQ-500KV-1 REC-1FRH:1-4
9	4.2316E-9	1EGEDG-UM-1H	C-HV05	HEP-1AP22:5	C-QS05	C-H105	T9A-FREQ-500KV-1	REC-1FRH:1-4
10	4.1770E-9	1EGEDG-FR-1H	C-HV05	1FWPSB-UM-1FWP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-RSST-C REC-1FRH:1-4
11	4.0331E-9	C-HV05	1FWPSB-FR-24HP3B	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4
12	3.8155E-9	C-HV05	1FWHEP-1FW546	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4
13	3.4376E-9	1EGEDG-FS-1H	C-HV05	1FWTRB-FR-24HP2	1FWPSB-FS-1FWP3B	C-QS05	C-H105	T9A-FREQ-500KV-1 REC-1FRH:1-4
14	3.4060E-9	1EGEDG-FS-1H	C-HV05	HEP-1AP22:5	C-QS05	C-H105	T9A-FREQ-500KV-1	REC-1FRH:1-4
15	3.2254E-9	C-HV05	1FWCKV-FC-1FW183	1FWTRB-FR-24HP2	C-QS05	C-H105	T9A-FREQ-4160-1H	REC-1FRH:1-4



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9AP10.MGP		12:23	9/28/1992
Top event unavailability	=	1.311E-7	
Number of cut sets in equation	=	87	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	9.1124E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
2	8.1454E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1860B		
3	8.1454E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1862B		
4	8.1454E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1863B		
5	4.8308E-9	1EGEDG-UM-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
6	4.3181E-9	1EGEDG-UM-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1862B		
7	4.3181E-9	1EGEDG-UM-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1860B		
8	4.3181E-9	1EGEDG-UM-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1863B		
9	3.8883E-9	T9A-FREQ-500KV-1 1EGEDG-FS-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
10	3.6083E-9	1EGEDG-FR-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
11	3.4757E-9	T9A-FREQ-500KV-1 1EGEDG-FS-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1862B		
12	3.4757E-9	T9A-FREQ-500KV-1 1EGEDG-FS-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1863B		
13	3.4757E-9	T9A-FREQ-500KV-1 1EGEDG-FS-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1860B		
14	3.3889E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIPSB-UM-1SIP1B		
15	3.2253E-9	1EGEDG-FR-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1860B		
16	3.2253E-9	1EGEDG-FR-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1862B		
17	3.2253E-9	1EGEDG-FR-1H T9A-FREQ-500KV-1 C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1863B		
18	3.0015E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIPSB-FS-1SIP1B		
19	2.5716E-9	T9A-FREQ-4160-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SICKV-FO-1S147		
20	1.9323E-9	T9A-FREQ-RSST-C 1EGEDG-UM-1H C-HV05	1RCPORV-T3	1RCRV--FO-1455C	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9AP13.MGP	12:24	9/28/1992
Top event unavailability	=	1.022E-7
Number of cut sets in equation	=	84
Cutoff value used last step	=	1.000E-11
Longest cut set (# of events)	=	9
Basic Event Data file referenced	=	NAPS1

1	1.2154E-8	T9A-FREQ-4160-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105	
2	7.3125E-9	T9A-FREQ-4160-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1115B	C-QS05	C-H105	
3	7.3125E-9	T9A-FREQ-4160-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FO-1115E	C-QS05	C-H105	
4	6.4431E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105
5	5.1860E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105
6	4.8125E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105
7	3.8766E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FO-1115E	C-QS05	C-H105
8	3.8766E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1115B	C-QS05	C-H105
9	3.4055E-9	T9A-FREQ-4160-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1CHPAT-FS-1CHP1B	C-QS05	C-H105	
10	3.1203E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FO-1115E	C-QS05	C-H105
11	3.1203E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1115B	C-QS05	C-H105
12	2.8956E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FC-1115B	C-QS05	C-H105
13	2.8956E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SIMOV-FO-1115E	C-QS05	C-H105
14	2.5772E-9	T9A-FREQ-RSST-C	1EGEDG-UM-1H	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105
15	2.0744E-9	1EGEDG-FS-1H	T9A-FREQ-RSST-C	C-HV05	1RCPORV-T3	1RCRV--FO-1455C	1SWTCV-FC-SW102B	C-QS05	C-H105

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9ATRP02.MGP		12:19	9/28/1992
Top event unavailability	=	8.327E-7	
Number of cut sets in equation	=	235	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	10	
Basic Event Data file referenced	=	NAPS1	

1	1.1051E-7	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
2	5.3211E-8	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
3	4.7154E-8	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
4	4.3758E-8	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
5	2.8209E-8	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
6	2.2705E-8	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
7	2.1215E-8	T9A-FREQ-4160-1H	1HVTCV-FC-TCV167	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
8	2.1215E-8	T9A-FREQ-4160-1H	1HVPCV-FC-1235B1	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
9	2.1070E-8	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
10	1.8862E-8	1EGEDG-FS-1H	T9A-FREQ-RSST-C	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
11	1.7503E-8	T9A-FREQ-RSST-C	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
12	1.2764E-8	T9A-FREQ-4160-1H	1HVMOD-FO-MOD137	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
13	1.2764E-8	T9A-FREQ-4160-1H	1HVMOD-FC-MOD138	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
14	1.2764E-8	T9A-FREQ-4160-1H	1HVMOV-FC-111B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
15	1.2764E-8	T9A-FREQ-4160-1H	1HVMOV-FC-113B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05	
16	1.1283E-8	T9A-FREQ-RSST-C	1EGEDG-UM-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
17	1.1247E-8	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVPCV-FC-1235B1	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05
18	1.1247E-8	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVTCV-FC-TCV167	C-LT01	HEP-OAP55-20HR	C-RC303	C-QS05

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T9ATRP06.MGP	12:24	9/28/1992
Top event unavailability	=	1.066E-7	
Number of cut sets in equation	=	79	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	7	
Basic Event Data file referenced	=	NAPS1	

1	1.6686E-8	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
2	8.0344E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
3	7.1199E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
4	6.6071E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
5	4.2593E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
6	3.4283E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
7	3.2033E-9	T9A-FREQ-4160-1H	1HVPCV-FC-1235B1	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
8	3.2033E-9	T9A-FREQ-4160-1H	1HVTCV-FC-TCV167	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
9	3.1814E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
10	2.8480E-9	1EGEDG-FS-1H	T9A-FREQ-RSST-C	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
11	2.6428E-9	T9A-FREQ-RSST-C	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
12	1.9273E-9	T9A-FREQ-4160-1H	1HVMOV-FC-113B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
13	1.9273E-9	T9A-FREQ-4160-1H	1HVMOV-FC-111B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
14	1.9273E-9	T9A-FREQ-4160-1H	1HVMOD-FO-MOD137	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
15	1.9273E-9	T9A-FREQ-4160-1H	1HVMOD-FC-MOD138	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR	
16	1.7037E-9	T9A-FREQ-RSST-C	1EGEDG-UM-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
17	1.6982E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVTCV-FC-TCV167	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
18	1.6982E-9	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVPCV-FC-1235B1	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
19	1.6445E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	C-LT01	HEP-OAP55-40HR	21A1AS-LF-OUT1A	REC-2AP2B
20	1.3713E-9	1EGEDG-FS-1H	T9A-FREQ-RSST-C	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
21	1.3668E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVPCV-FC-1235B1	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
22	1.3668E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVTCV-FC-TCV167	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR
23	1.2726E-9	T9A-FREQ-RSST-C	1EGEDG-FR-1H	1HVCHU-FS-1HVE4B	C-LT01	HEP-OAP55-20HR	HEP-OAP55-40HR

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9ATRP08.MGP	=	12:17 9/28/1992
Top event unavailability	=	1.526E-6
Number of cut sets in equation	=	246
Cutoff value used last step	=	1.000E-11
Longest cut set (# of events)	=	7
Basic Event Data file referenced	=	NAPS1

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1	1.5224E-7	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
2	7.3306E-8	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
3	6.4963E-8	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
4	6.0284E-8	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
5	4.9171E-8	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	C-QS05			
6	3.8862E-8	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
7	3.6222E-8	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1FWTRB-UM-1FWP2	HEP-OAP55-10HR	C-QS05			
8	3.1280E-8	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-FS-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
9	2.9227E-8	T9A-FREQ-4160-1H	1HVPCV-FC-1235B1	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
10	2.9227E-8	T9A-FREQ-4160-1H	1HVTCV-FC-TCV167	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
11	2.9027E-8	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-FS-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
12	2.5985E-8	1EGEDG-FS-1H	T9A-FREQ-RSST-C	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
13	2.4114E-8	T9A-FREQ-RSST-C	1EGEDG-FR-1H	1HVCHU-UM-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
14	2.3676E-8	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	C-QS05			
15	2.0981E-8	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	C-QS05		
16	1.9470E-8	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	1FWTRB-FS-1FWP2	HEP-OAP55-10HR	C-QS05		
17	1.7585E-8	T9A-FREQ-4160-1H	1HVMOD-FC-MOD138	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
18	1.7585E-8	T9A-FREQ-4160-1H	1HVMOV-FC-113B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
19	1.7585E-8	T9A-FREQ-4160-1H	1HVMOD-FO-MOD137	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
20	1.7585E-8	T9A-FREQ-4160-1H	1HVMOV-FC-111B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05			
21	1.7441E-8	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1FWTRB-UM-1FWP2	HEP-OAP55-10HR	C-QS05			
22	1.5545E-8	T9A-FREQ-RSST-C	1EGEDG-UM-1H	1HVCHU-FS-1HVE4B	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		
23	1.5494E-8	1EGEDG-UM-1H	T9A-FREQ-500KV-1	1HVTCV-FC-TCV167	1FWTRB-FR-12HP2	HEP-OAP55-10HR	C-QS05		

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9ATRP14.MGP                      12:21    9/28/1992  
 Top event unavailability            =    3.881E-7  
 Number of cut sets in equation    =            257  
 Cutoff value used last step        =    1.000E-11  
 Longest cut set (# of events)      =            8  
 Basic Event Data file referenced   =    NAPS1

1	6.9001E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
2	6.9001E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
3	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FC-1863B			
4	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FC-1860B			
5	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FO-1862B			
6	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FC-1860B			
7	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FC-1863B			
8	6.1678E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FO-1862B			
9	5.8712E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
10	5.2481E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SIMOV-FC-1863B			
11	5.2481E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SIMOV-FO-1862B			
12	5.2481E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SIMOV-FC-1860B			
13	4.3165E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR
14	3.8584E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SIMOV-FO-1862B		
15	3.8584E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SIMOV-FC-1860B		
16	3.8584E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SIMOV-FC-1863B		
17	3.3225E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1RCRV--CC-RCPORV	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
18	3.3225E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1MSRV--CC-101ABC	HEP-1ES1:3	1EE-BAT-11-2HR	1EE-BAT-1-2HR	
19	2.9699E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FO-1862B			
20	2.9699E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FC-1863B			
21	2.9699E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FC-1860B			
22	2.9699E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FC-1863B			

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

T9ATRP17.MGP		12:22	9/28/1992
Top event unavailability	=	3.066E-7	
Number of cut sets in equation	=	191	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

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1	9.2029E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SWTCV-FC-SW102B	C-QS05		C-H105	
2	9.2029E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SWTCV-FC-SW102B	C-QS05		C-H105	
3	7.8307E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SWTCV-FC-SW102B	C-QS05		C-H105	
4	5.7571E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SWTCV-FC-SW102B	C-QS05	C-H105	
5	5.5372E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FO-1115E	C-QS05		C-H105	
6	5.5372E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FC-1115B	C-QS05		C-H105	
7	5.5372E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SIMOV-FO-1115E	C-QS05		C-H105	
8	5.5372E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SIMOV-FC-1115B	C-QS05		C-H105	
9	4.7115E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SIMOV-FC-1115B	C-QS05		C-H105	
10	4.7115E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	HEP-1ES1:2-S2	1SIMOV-FO-1115E	C-QS05		C-H105	
11	4.4313E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1MSRV--CC-101ABC	1SWTCV-FC-SW102B	C-QS05		C-H105	
12	4.4313E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	1RCRV--CC-RCPORV	1SWTCV-FC-SW102B	C-QS05		C-H105	
13	3.9269E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SWTCV-FC-SW102B	C-QS05	C-H105	
14	3.9269E-9	T9A-FREQ-500KV-1	1EGEDG-FS-1H	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SWTCV-FC-SW102B	C-QS05	C-H105	
15	3.7706E-9	T9A-FREQ-4160-1H	1HVCHU-FS-1HVE4B	HEP-1ES1:2-S2	1SWTCV-FC-SW102B	C-QS05		C-H105	
16	3.6441E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	1RCRV--CC-RCPORV	1SWTCV-FC-SW102B	C-QS05	C-H105	
17	3.6441E-9	1EGEDG-FR-1H	T9A-FREQ-500KV-1	1HVCHU-UM-1HVE4B	1MSRV--CC-101ABC	1SWTCV-FC-SW102B	C-QS05	C-H105	
18	3.4639E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SIMOV-FO-1115E	C-QS05	C-H105	
19	3.4639E-9	T9A-FREQ-4160-1H	1HVCHU-UM-1HVE4B	1RCMOV-LK-1535	1RCMOV-LK-1536	1SIMOV-FC-1115B	C-QS05	C-H105	

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T9BP02.MGP		12:22	9/28/1992
Top event unavailability	=	2.358E-7		
Number of cut sets in equation	=	357		
Cutoff value used last step	=	1.000E-11		
Longest cut set (# of events)	=	8		
Basic Event Data file referenced	=	NAPS1		

1	3.4712E-8	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
2	1.4812E-8	1EGEDG-FS-1J	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4
3	1.3745E-8	1EGEDG-FR-1J	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4
4	1.0604E-8	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
5	1.0507E-8	HEP-1AP22:5	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4		
6	5.9247E-9	1EGEDG-FS-1J	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	C-QS06	C-H106	T9B-FREQ-RSST-A	REC-1FRH:1-4
7	5.7712E-9	1FWPSB-UM-1FWP3A	1FWTRB-FS-1FWP2	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
8	5.6215E-9	1EGEDG-UM-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4
9	5.5699E-9	1EGEDG-UM-1J	HEP-1AP22:5	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4	
10	5.4980E-9	1EGEDG-FR-1J	1FWTRB-FR-24HP2	1FWPSB-UM-1FWP3A	C-QS06	C-H106	T9B-FREQ-RSST-A	REC-1FRH:1-4
11	5.3086E-9	1FWTRB-FR-24HP2	1FWPSB-FR-24HP3A	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
12	5.0222E-9	1FWTRB-FR-24HP2	1FWNEP-1FW548	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
13	4.5248E-9	1EGEDG-FS-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4
14	4.4832E-9	1EGEDG-FS-1J	HEP-1AP22:5	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4	
15	4.2455E-9	1FWTRB-FR-24HP2	1FWCKV-FC-1FW165	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4	
16	4.1989E-9	1EGEDG-FR-1J	1FWPSB-FS-1FWP3A	1FWTRB-FR-24HP2	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4
17	4.1603E-9	1EGEDG-FR-1J	HEP-1AP22:5	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4	
18	3.8064E-9	1FWCKV-CC-ALLAFW	C-QS06	C-H106	T9B-FREQ-4160-1J	REC-1FRH:1-4		
19	2.8143E-9	1EGEDG-UM-1J	1FWTRB-FR-24HP2	1FWPSB-FR-24HP3A	C-QS06	C-H106	T9B-FREQ-500KV-2	REC-1FRH:1-4



**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	T9BP13.MGP	12:23	9/28/1992
Top event unavailability	=	1.296E-7	
Number of cut sets in equation	=	139	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	8	
Basic Event Data file referenced	=	NAPS1	

1	9.6252E-9	T9B-FREQ-4160-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1115D	C-QS06	C-H106	
2	9.6252E-9	T9B-FREQ-4160-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FO-1115C	C-QS06	C-H106	
3	9.6252E-9	T9B-FREQ-4160-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867C	C-QS06	C-H106	
4	9.6252E-9	T9B-FREQ-4160-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867A	C-QS06	C-H106	
5	5.1027E-9	1EGEDG-UM-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FO-1115C	C-QS06	C-H106
6	5.1027E-9	1EGEDG-UM-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867A	C-QS06	C-H106
7	5.1027E-9	1EGEDG-UM-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1115D	C-QS06	C-H106
8	5.1027E-9	1EGEDG-UM-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867C	C-QS06	C-H106
9	4.1071E-9	T9B-FREQ-500KV-2	1EGEDG-FS-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867A	C-QS06	C-H106
10	4.1071E-9	T9B-FREQ-500KV-2	1EGEDG-FS-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1115D	C-QS06	C-H106
11	4.1071E-9	T9B-FREQ-500KV-2	1EGEDG-FS-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FO-1115C	C-QS06	C-H106
12	4.1071E-9	T9B-FREQ-500KV-2	1EGEDG-FS-1J	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867C	C-QS06	C-H106
13	3.8113E-9	1EGEDG-FR-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867C	C-QS06	C-H106
14	3.8113E-9	1EGEDG-FR-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1867A	C-QS06	C-H106
15	3.8113E-9	1EGEDG-FR-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FO-1115C	C-QS06	C-H106
16	3.8113E-9	1EGEDG-FR-1J	T9B-FREQ-500KV-2	1RCPORV-T3	1RCRV--FO-1456	1SIMOV-FC-1115D	C-QS06	C-H106

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	THP30.MGP		12:22	9/28/1992
Top event unavailability	=	2.058E-7		
Number of cut sets in equation	=	1		
Cutoff value used last step	=	1.000E-11		
Longest cut set (# of events)	=	5		
Basic Event Data file referenced	=	NAPS1		

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1	2.0577E-7	IE-TH	1RPROD-LF-CRODS	PROB-M03	C-TT01	PROB-PR01
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**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	THP46.MGP	12:22	9/28/1992
Top event unavailability	=	2.141E-7	
Number of cut sets in equation	=	6	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	6	
Basic Event Data file referenced	=	NAPS1	

1	7.4330E-8	IE-TN	1RPROD-LF-CRODS	PROB-M03	1MSPIC-LF-1447	PROB-Q08	
2	7.4330E-8	IE-TN	1RPROD-LF-CRODS	PROB-M03	1MSPIC-LF-1446	PROB-Q08	
3	1.6793E-8	IE-TN	1RPROD-LF-CRODS	PROB-M03	1TMSOV-FC-20-ET	PROB-Q08	
4	1.6793E-8	IE-TN	1RPROD-LF-CRODS	PROB-M03	1TMSOV-FC-ASO	PROB-Q08	
5	1.5941E-8	IE-TN	1MSPIC-LF-1446	HEP-1FRS:1-5	1RPBKR-CC-RTARTB	PROB-M03	PROB-Q08
6	1.5941E-8	IE-TN	1MSPIC-LF-1447	HEP-1FRS:1-5	1RPBKR-CC-RTARTB	PROB-M03	PROB-Q08

**TABLE B.2-11 (Continued)**  
**"TOP CUT SETS FOR SEQUENCES GREATER THAN 1.0E-7"**

	VXP07.MGP	12:17	9/28/1992
Top event unavailability	=	1.524E-6	
Number of cut sets in equation	=	1	
Cutoff value used last step	=	1.000E-11	
Longest cut set (# of events)	=	2	
Basic Event Data file referenced	=	NAPS1	

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1	1.5236E-6	IE-VX	PROB-FM01
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