


**APPENDIX A
FLAW GROWTH CALCULATIONS: PC-CRACK OUTPUT**

	Revision	0	1		
	Preparer/Date	HLG 2/17/04	HLG 5/12/04		
	Checker/Date	GLS 2/17/04	MQ 5/12/04		
	File No.	PBCH-09Q-302			Page A1 of A19

tm
 pc-CRACK for Windows
 Version 3.1-98348
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 Structural Integrity Associates, Inc.
 3315 Almaden Expressway, Suite 24
 San Jose, CA 95118-1557

Linear Elastic Fracture Mechanics

Date: Mon Feb 09 14:31:53 2004
 Input Data and Results File: PWSCFINE.LFM

Title: PBCH-09Q: PWSCC Calculation

Load Cases:

Case ID: PWSCC --- K vs a

Depth	K
0.0000	57.0000
0.5000	57.0000
2.0000	57.0000

Case ID	Stress Coefficients				Type
	C0	C1	C2	C3	
PWSCC	0	0	0	0	K vs a

Crack Model: User Input K Versus Crack Size

Crack Parameters:
 Max. crack size: 1.0000

-----Stress Intensity Factor-----

Crack Size	Case PWSCC
0.0200	57
0.0400	57
0.0600	57



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0.0800 57
 0.1000 57
 0.1200 57
 0.1400 57
 0.1600 57
 0.1800 57
 0.2000 57
 0.2200 57
 0.2400 57
 0.2600 57
 0.2800 57
 0.3000 57
 0.3200 57
 0.3400 57
 0.3600 57
 0.3800 57
 0.4000 57
 0.4200 57
 0.4400 57
 0.4600 57
 0.4800 57
 0.5000 57
 0.5200 57
 0.5400 57
 0.5600 57
 0.5800 57
 0.6000 57
 0.6200 57
 0.6400 57
 0.6600 57
 0.6800 57
 0.7000 57
 0.7200 57
 0.7400 57
 0.7600 57
 0.7800 57
 0.8000 57
 0.8200 57
 0.8400 57
 0.8600 57
 0.8800 57
 0.9000 57
 0.9200 57
 0.9400 57
 0.9600 57
 0.9800 57
 1.0000 57



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Crack Growth Laws:

Law ID: PWSCC
 Type: Fatigue
 Model: Paris

$da/dN = c * (dK)^n$
 where
 $dK = K_{max} - K_{min}$
 $dK > K_{thres}$
 $K_{max} < K_{Ic}$

Material parameters:
 c = 2.2600e-007
 n = 1.1600
 Kthres = 8.1900

Material Fracture Toughness K_{Ic}:

Material ID: Alloy 52

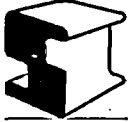
Depth	K _{Ic}
0.0000	200.0000
0.5000	200.0000
2.0000	200.0000

Initial crack size= 0.0100
 Max. crack size= 1.0000

Number of blocks= 1
 Print increment of block= 1

Subblock	Cycles /Time	Calc. incre.	Print incre.	Crk. Grw. Law	Mat. K _{Ic}
PWSCC	40000	100	100	PWSCC	Alloy 52

Subblock	K _{max} Case ID	Scale Factor	K _{min} Case ID	Scale Factor
PWSCC	PWSCC	1.0000	PWSCC	0.1400

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Crack growth results:

Total Subblock

Cycles Cycles

/Time /Time

Kmax

Kmin

DaDn

DeltaK R

/DaDt


Da

a

a/thk

Block: 1

100	100	4.03e+001	5.64e+000	3.47e+001	0.14	1.38e-005	1.38e-003	0.01138	0.00
200	200	4.30e+001	6.02e+000	3.70e+001	0.14	1.49e-005	1.49e-003	0.01287	0.00
300	300	4.57e+001	6.40e+000	3.93e+001	0.14	1.60e-005	1.60e-003	0.01447	0.00
400	400	4.85e+001	6.79e+000	4.17e+001	0.14	1.71e-005	1.71e-003	0.01618	0.00
500	500	5.13e+001	7.18e+000	4.41e+001	0.14	1.83e-005	1.83e-003	0.01801	0.00
600	600	5.41e+001	7.57e+000	4.65e+001	0.14	1.94e-005	1.94e-003	0.01995	0.00
700	700	5.69e+001	7.97e+000	4.90e+001	0.14	2.06e-005	2.06e-003	0.02201	0.00
800	800	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.02408	0.00
900	900	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.02614	0.00
1000	1000	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.02821	0.00
1100	1100	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.03027	0.00
1200	1200	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.03234	0.00
1300	1300	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.0344	0.00
1400	1400	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.03647	0.00
1500	1500	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.03853	0.00
1600	1600	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.0406	0.00
1700	1700	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.04266	0.00
1800	1800	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.04473	0.00
1900	1900	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.04679	0.00
2000	2000	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.04886	0.00
2100	2100	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.05092	0.00
2200	2200	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.05299	0.00
2300	2300	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.05505	0.00
2400	2400	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.05712	0.00
2500	2500	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.05918	0.00
2600	2600	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.06125	0.00
2700	2700	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.06332	0.00
2800	2800	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.06538	0.00
2900	2900	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.06745	0.00
3000	3000	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.06951	0.00
3100	3100	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.07158	0.00
3200	3200	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.07364	0.00
3300	3300	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.07571	0.00
3400	3400	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.07777	0.00
3500	3500	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.07984	0.00
3600	3600	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.0819	0.00
3700	3700	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.08397	0.00
3800	3800	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.08603	0.00
3900	3900	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.0881	0.00
4000	4000	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.09016	0.00
4100	4100	5.70e+001	7.98e+000	4.90e+001	0.14	2.07e-005	2.07e-003	0.09223	0.00

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4200 4200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.09429 0.00
4300 4300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.09636 0.00
4400 4400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.09842 0.00
4500 4500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1005 0.00
4600 4600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1026 0.00
4700 4700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1046 0.00
4800 4800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1067 0.00
4900 4900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1087 0.00
5000 5000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1108 0.00
5100 5100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1129 0.00
5200 5200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1149 0.00
5300 5300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.117 0.00
5400 5400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1191 0.00
5500 5500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1211 0.00
5600 5600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1232 0.00
5700 5700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1253 0.00
5800 5800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1273 0.00
5900 5900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1294 0.00
6000 6000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1315 0.00
6100 6100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1335 0.00
6200 6200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1356 0.00
6300 6300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1377 0.00
6400 6400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1397 0.00
6500 6500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1418 0.00
6600 6600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1439 0.00
6700 6700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1459 0.00
6800 6800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.148 0.00
6900 6900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.15 0.00
7000 7000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1521 0.00
7100 7100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1542 0.00
7200 7200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1562 0.00
7300 7300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1583 0.00
7400 7400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1604 0.00
7500 7500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1624 0.00
7600 7600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1645 0.00
7700 7700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1666 0.00
7800 7800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1686 0.00
7900 7900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1707 0.00
8000 8000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1728 0.00
8100 8100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1748 0.00
8200 8200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1769 0.00
8300 8300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.179 0.00
8400 8400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.181 0.00
8500 8500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1831 0.00
8600 8600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1852 0.00
8700 8700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1872 0.00
8800 8800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1893 0.00
8900 8900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1914 0.00
9000 9000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1934 0.00



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9100 9100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1955 0.00
 9200 9200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1975 0.00
 9300 9300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.1996 0.00
 9400 9400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2017 0.00
 9500 9500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2037 0.00
 9600 9600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2058 0.00
 9700 9700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2079 0.00
 9800 9800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2099 0.00
 9900 9900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.212 0.00
 10000 10000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2141 0.00
 10100 10100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2161 0.00
 10200 10200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2182 0.00
 10300 10300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2203 0.00
 10400 10400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2223 0.00
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 10600 10600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2265 0.00
 10700 10700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2285 0.00
 10800 10800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2306 0.00
 10900 10900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2327 0.00
 11000 11000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2347 0.00
 11100 11100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2368 0.00
 11200 11200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2388 0.00
 11300 11300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2409 0.00
 11400 11400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.243 0.00
 11500 11500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.245 0.00
 11600 11600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2471 0.00
 11700 11700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2492 0.00
 11800 11800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2512 0.00
 11900 11900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2533 0.00
 12000 12000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2554 0.00
 12100 12100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2574 0.00
 12200 12200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2595 0.00
 12300 12300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2616 0.00
 12400 12400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2636 0.00
 12500 12500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2657 0.00
 12600 12600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2678 0.00
 12700 12700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2698 0.00
 12800 12800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2719 0.00
 12900 12900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.274 0.00
 13000 13000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.276 0.00
 13100 13100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2781 0.00
 13200 13200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2802 0.00
 13300 13300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2822 0.00
 13400 13400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2843 0.00
 13500 13500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2863 0.00
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 13700 13700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.2905 0.00
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 30500 30500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6374 0.00
 30600 30600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6395 0.00
 30700 30700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6415 0.00
 30800 30800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6436 0.00
 30900 30900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6457 0.00
 31000 31000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6477 0.00
 31100 31100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6498 0.00
 31200 31200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6519 0.00
 31300 31300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6539 0.00
 31400 31400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.656 0.00
 31500 31500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6581 0.00
 31600 31600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6601 0.00
 31700 31700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6622 0.00
 31800 31800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6643 0.00
 31900 31900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6663 0.00
 32000 32000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6684 0.00
 32100 32100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6705 0.00
 32200 32200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6725 0.00
 32300 32300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6746 0.00
 32400 32400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6767 0.00
 32500 32500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6787 0.00
 32600 32600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6808 0.00
 32700 32700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6828 0.00
 32800 32800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6849 0.00
 32900 32900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.687 0.00
 33000 33000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.689 0.00
 33100 33100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6911 0.00
 33200 33200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6932 0.00
 33300 33300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6952 0.00
 33400 33400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6973 0.00
 33500 33500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.6994 0.00



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33600 33600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7014 0.00
 33700 33700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7035 0.00
 33800 33800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7056 0.00
 33900 33900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7076 0.00
 34000 34000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7097 0.00
 34100 34100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7118 0.00
 34200 34200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7138 0.00
 34300 34300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7159 0.00
 34400 34400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.718 0.00
 34500 34500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.72 0.00
 34600 34600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7221 0.00
 34700 34700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7241 0.00
 34800 34800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7262 0.00
 34900 34900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7283 0.00
 35000 35000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7303 0.00
 35100 35100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7324 0.00
 35200 35200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7345 0.00
 35300 35300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7365 0.00
 35400 35400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7386 0.00
 35500 35500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7407 0.00
 35600 35600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7427 0.00
 35700 35700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7448 0.00
 35800 35800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7469 0.00
 35900 35900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7489 0.00
 36000 36000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.751 0.00
 36100 36100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7531 0.00
 36200 36200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7551 0.00
 36300 36300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7572 0.00
 36400 36400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7593 0.00
 36500 36500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7613 0.00
 36600 36600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7634 0.00
 36700 36700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7655 0.00
 36800 36800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7675 0.00
 36900 36900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7696 0.00
 37000 37000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7716 0.00
 37100 37100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7737 0.00
 37200 37200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7758 0.00
 37300 37300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7778 0.00
 37400 37400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7799 0.00
 37500 37500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.782 0.00
 37600 37600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.784 0.00
 37700 37700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7861 0.00
 37800 37800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7882 0.00
 37900 37900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7902 0.00
 38000 38000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7923 0.00
 38100 38100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7944 0.00
 38200 38200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7964 0.00
 38300 38300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.7985 0.00
 38400 38400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8006 0.00



Revision

0

1

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38500 38500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8026 0.00
 38600 38600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8047 0.00
 38700 38700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8068 0.00
 38800 38800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8088 0.00
 38900 38900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8109 0.00
 39000 39000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8129 0.00
 39100 39100 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.815 0.00
 39200 39200 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8171 0.00
 39300 39300 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8191 0.00
 39400 39400 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8212 0.00
 39500 39500 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8233 0.00
 39600 39600 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8253 0.00
 39700 39700 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8274 0.00
 39800 39800 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8295 0.00
 39900 39900 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8315 0.00
 40000 40000 5.70e+001 7.98e+000 4.90e+001 0.14 2.07e-005 2.07e-003 0.8336 0.00

End of pc-CRACK Output



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tm
 pc-CRACK for Windows
 Version 3.1-98348
 (C) Copyright '84 - '98
 Structural Integrity Associates, Inc.
 3315 Almaden Expressway, Suite 24
 San Jose, CA 95118-1557

Linear Elastic Fracture Mechanics

Date: Mon Feb 09 10:59:19 2004
 Input Data and Results File: PB1FCG.LFM

Title: PBCH-09Q-302: Point Beach Unit 1 Fatigue Crack Growth

Load Cases:

Case ID	Stress Coefficients				Type
	C0	C1	C2	C3	
Residual	60	0	0	0	Coeff
Operating	20	0	0	0	Coeff

-----Through Wall Stresses for Load Cases With Stress Coeff-----

Wall Depth	Case Residual	Case Operating
---------------	------------------	-------------------

0.0000	60	20
0.1000	60	20
0.2000	60	20
0.3000	60	20
0.4000	60	20
0.5000	60	20
0.6000	60	20
0.7000	60	20
0.8000	60	20
0.9000	60	20
1.0000	60	20

Crack Model: Single Edge Cracked Plate

Crack Parameters:
 Plate width: 2.0000



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Max. crack size: 1.0000

-----Stress Intensity Factor-----		
Crack Size	Case Residual	Case Operating
0.0200	16.2806	5.42685
0.0400	23.1837	7.7279
0.0600	28.5895	9.52983
0.0800	33.2379	11.0793
0.1000	37.4133	12.4711
0.1200	41.2605	13.7535
0.1400	44.8649	14.955
0.1600	48.2816	16.0939
0.1800	51.5488	17.1829
0.2000	54.6939	18.2313
0.2200	58.4858	19.4953
0.2400	62.2586	20.7529
0.2600	66.021	22.007
0.2800	69.7794	23.2598
0.3000	73.5391	24.513
0.3200	77.3044	25.7681
0.3400	81.0788	27.0263
0.3600	84.8651	28.2884
0.3800	88.6656	29.5552
0.4000	92.4824	30.8275
0.4200	97.0061	32.3354
0.4400	101.582	33.8605
0.4600	106.209	35.4029
0.4800	110.888	36.9626
0.5000	115.618	38.5394
0.5200	120.4	40.1334
0.5400	125.234	41.7446
0.5600	130.118	43.3727
0.5800	135.054	45.0179
0.6000	140.04	46.6799
0.6200	146.332	48.7773
0.6400	152.715	50.9049
0.6600	159.186	53.0621
0.6800	165.746	55.2486
0.7000	172.392	57.464
0.7200	179.124	59.7079
0.7400	185.94	61.98
0.7600	192.84	64.2799
0.7800	199.822	66.6073
0.8000	206.886	68.9619
0.8200	216.919	72.3064



Revision	0	1		
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0.8400	227.102	75.7008
0.8600	237.433	79.1444
0.8800	247.91	82.6366
0.9000	258.53	86.1767
0.9200	269.292	89.7641
0.9400	280.195	93.3982
0.9600	291.235	97.0783
0.9800	302.412	100.804
1.0000	313.724	104.575

Crack Growth Laws:

Law ID: Alloy 52

Model: ASME Section XI - austenitic stainless steel in air environment

$$da/dN = C * 10^F * S * dK^{3.3}$$

where

$$S = 1.0 \quad \text{for } R < 0$$

$$= 1.0 + 1.8 * R \quad \text{for } 0 < R < 0.79$$

$$= -43.5 + 57.97 * R \quad \text{for } 0.79 < R < 1$$

F = code specified function of temperature

$$dK = K_{max} - K_{min}$$

$$R = K_{min} / K_{max}$$

where:

$$C * 10^F = 1.9352e-010$$

is for the currently selected units of:

force: kip

length: inch

temperature: 592.0000 Fahrenheit

Material Fracture Toughness K_{Ic}:

Material ID: Alloy 52

Depth	K _{Ic}
0.0000	200.0000
0.5000	200.0000
2.0000	200.0000

Initial crack size= 0.1000

Max. crack size= 1.0000

Number of blocks= 1



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Print increment of block= 1


Subblock	Cycles /Time	Calc. incre.	Print incre.	Crk. Law	Grw. Mat.
FCG	1000	10	10	Alloy 52	Alloy 52

Subblock	Kmax Case ID	Scale Factor	Kmin Case ID	Scale Factor
FCG	Residual Operating	1.0000 1.0000	Residual	1.0000

Crack growth results:

Total Cycles /Time	Subblock Cycles /Time	Kmax	Kmin	DaDn DeltaK	R	Da /DaDt	Da	a	a/thk
--------------------	-----------------------	------	------	-------------	---	----------	----	---	-------

Block:	1
10	10 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1 0.05
20	20 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1 0.05
30	30 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1001 0.05
40	40 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1001 0.05
50	50 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1001 0.05
60	60 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1001 0.05
70	70 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1001 0.05
80	80 4.99e+001 3.74e+001 1.25e+001 0.75 1.88e-006 1.88e-005 0.1002 0.05
90	90 4.99e+001 3.74e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1002 0.05
100	100 4.99e+001 3.74e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1002 0.05
110	110 4.99e+001 3.74e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1002 0.05
120	120 4.99e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1002 0.05
130	130 4.99e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1002 0.05
140	140 4.99e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1003 0.05
150	150 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1003 0.05
160	160 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1003 0.05
170	170 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1003 0.05
180	180 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1003 0.05
190	190 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1004 0.05
200	200 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1004 0.05
210	210 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1004 0.05
220	220 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1004 0.05
230	230 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1004 0.05
240	240 5.00e+001 3.75e+001 1.25e+001 0.75 1.89e-006 1.89e-005 0.1005 0.05
250	250 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1005 0.05
260	260 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1005 0.05

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270 270 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1005 0.05
 280 280 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1005 0.05
 290 290 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1005 0.05
 300 300 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1006 0.05
 310 310 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1006 0.05
 320 320 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1006 0.05
 330 330 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1006 0.05
 340 340 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1006 0.05
 350 350 5.00e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1007 0.05
 360 360 5.01e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1007 0.05
 370 370 5.01e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1007 0.05
 380 380 5.01e+001 3.75e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1007 0.05
 390 390 5.01e+001 3.76e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1007 0.05
 400 400 5.01e+001 3.76e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1008 0.05
 410 410 5.01e+001 3.76e+001 1.25e+001 0.75 1.90e-006 1.90e-005 0.1008 0.05
 420 420 5.01e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.1008 0.05
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 460 460 5.01e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.1009 0.05
 470 470 5.01e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.1009 0.05
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 550 550 5.01e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.101 0.05
 560 560 5.02e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.1011 0.05
 570 570 5.02e+001 3.76e+001 1.25e+001 0.75 1.91e-006 1.91e-005 0.1011 0.05
 580 580 5.02e+001 3.76e+001 1.25e+001 0.75 1.92e-006 1.92e-005 0.1011 0.05
 590 590 5.02e+001 3.76e+001 1.25e+001 0.75 1.92e-006 1.92e-005 0.1011 0.05
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 710 710 5.02e+001 3.77e+001 1.26e+001 0.75 1.92e-006 1.92e-005 0.1014 0.05
 720 720 5.02e+001 3.77e+001 1.26e+001 0.75 1.92e-006 1.92e-005 0.1014 0.05
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 740 740 5.02e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1014 0.05
 750 750 5.02e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1014 0.05



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760 760 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1014 0.05
770 770 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1015 0.05
780 780 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1015 0.05
790 790 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1015 0.05
800 800 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1015 0.05
810 810 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1015 0.05
820 820 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1016 0.05
830 830 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1016 0.05
840 840 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1016 0.05
850 850 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1016 0.05
860 860 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1016 0.05
870 870 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1017 0.05
880 880 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1017 0.05
890 890 5.03e+001 3.77e+001 1.26e+001 0.75 1.93e-006 1.93e-005 0.1017 0.05
900 900 5.03e+001 3.77e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1017 0.05
910 910 5.03e+001 3.77e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1017 0.05
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930 930 5.03e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1018 0.05
940 940 5.03e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1018 0.05
950 950 5.03e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1018 0.05
960 960 5.03e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1018 0.05
970 970 5.04e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1019 0.05
980 980 5.04e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1019 0.05
990 990 5.04e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1019 0.05
1000 1000 5.04e+001 3.78e+001 1.26e+001 0.75 1.94e-006 1.94e-005 0.1019 0.05

End of pc-CRACK Output



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