

TRIAC-BATAN
 TRISO Analysis Code of BATAN
 "Developed by Computational Laboratory, Center for Nuclear Reactor Technology
 and Safety, BATAN"

Case Title: (describe your problem case here)

TRISO Geometry:

Outer radius	CFP	SiC	IPyC	buffer	kernel	center
[m]	4.60E-04	4.20E-04	3.85E-04	3.45E-04	2.50E-04	0

Properties and Operation Parameters:

SiC Tensile Strength [Pa]	Weibull Modulus	Burnup [FIMA]	"Fission Yield of stable fission gasses, Ff"	Fast Neutron Fluence	Weight ratio of th to U- 235 in kernel
8.34E+08	8.02	0.09	0.31	2.4	

8.34E+08 8.02 0.09 0.31 2.4
 Properties and Operation Parameters related with thermal decomposition:

Alpha	Beta
0.0001	4
-1	1401.6
0.1	10

INPUT: Irradiation Temp. Hystory

1	0	593
2	17	833
3	34	1023
4	51	1093
5	68	1123
6	85	593
7	102	833
8	119	1023
9	136	1093
10	153	1123
11	170	593
12	187	833
13	204	1023
14	221	1093
15	238	1123
16	255	593
17	272	833
18	289	1023
19	306	1093
20	323	1123
21	340	593
22	357	833
23	374	1023
24	391	1093
25	408	1123
26	425	593
27	442	833
28	459	1023
29	476	1093
30	493	1123
31	510	593
32	527	833
33	544	1023
34	561	1093
35	578	1123
36	595	593
37	612	833

38	629	1023
39	646	1093
40	663	1123
41	680	593
42	697	833
43	714	1023
44	731	1093
45	748	1123
46	765	593
47	782	833
48	799	1023
49	816	1093
50	833	1123
51	850	593
52	867	833
53	884	1023
54	901	1093
55	918	1123
56	935	593
57	952	833
58	969	1023
59	986	1093
60	1003	1123
61	1020	593

0

-1 180 1

INPUT: Accident Temp. Hystory

1	0	1033
2	0.0271	1033
3	0.2208	1068
4	1	1160
5	10	1571
6	20	1728
7	30	1752
8	35	1749
9	60	1690
10	90	1605
11	120	1526
12	180	1395

0