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TRIAC-BATAN
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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

4.60E-04 4.20E-04 3.45E-04 2.50E-04 [m]3.85E-04 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

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

Alpha Beta

0.0001

1401.6 0.1 INPUT: Irradiation Temp. Hystory

```
629
38
             833
39
            1023
      646
      663
            1093
40
             1123
41
      680
42
      697
             833
43
      714
            1023
44
      731
             1093
45
      748
            1123
46
      765
             833
47
      782
            1023
48
      799
            1093
49
            1123
      816
50
      833
             833
51
      850
            1023
52
             1093
      867
53
      884
             1123
54
      901
             833
55
      918
            1023
56
      935
             1093
57
      952
             1123
58
      969
             833
59
      986
             1023
60
      1003
            1093
61
      1020
            1123
      0
      -1
            180
                   1
INPUT: Accident Temp. Hystory
1
      0
            1033
2
      0.0271
                   1033
3
      0.2208
                   1068
4
            1160
      1
5
            1571
      10
            1728
6
      20
7
      30
            1752
      35
             1749
8
      60
9
             1690
10
      90
             1605
      120
             1526
11
12
      180
             1395
```