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5 COMPONENT RELIABILITY DATA (COMPDATA.BAS)  
6 Written by Phil Rutherford circa 1985  
7 Revised by Phil Rutherford 2020-10-22  
8 Run with MMBasic.exe (www.mmbasic.com)  
9

10 Input basic operability properties of a  
11 component to compute its reliability and  
12 availability  
13

14 COMPONENT NAME           Component  
15 COMPONENT ACRONYM       COMP1

16  
17 1. OPERATING?  
18 2. OR STANDBY?           OS = 2  
19

20 1. CONTINUOUSLY MONITORED?  
21 2. PERIODICALLY TESTED?  
22 3. OR UNTESTED?         MT = 2  
23

24 1. REPAIRABLE?  
25 2. OR NON-REPAIRABLE?   R = 1  
26

27 STANDBY FAILURE RATE           (/HR)   0.00001  
28 DEMAND FAILURE RATE           (/D )   0.1  
29 REPAIR TIME                   (HR )   12  
30 GRACE PERIOD                  (HR )   12  
31 TEST INTERVAL                 (HR )   168  
32 TEST DURATION                 (HR )   1  
33 TEST OVERRIDE PROBABILITY       0.9  
34 SCHEDULED MAINTENANCE INTERVAL (HR )   728  
35 SCHEDULED MAINTENANCE DURATION (HR )   8  
36 Press any key to continue  
37

38 -----  
39 COMPONENT NAME           Component  
40 ACRONYM                 COMP1  
41

42 STANDBY...PERIODICALLY TESTED...REPAIRABLE

43  
44 FAILURE RATE.....(/HR)   FRH   0.0009209974054  
45 FAILURE RATE.....(/D )   FRD   0.1  
46 REPAIR TIME.....(HR )   TREP 12  
47 GRACE PERIOD.....(HR )   TGRA 12  
48 TEST INTERVAL.....(HR )   TINT 168  
49 TEST DURATION.....(HR )   TDUR 1  
50 TEST OVERRIDE PROBABILITY.....TOP   0.9  
51 SCHEDULED MAINTENANCE INTERVAL (HR )   SMI 728  
52 SCHEDULED MAINTENANCE DURATION (HR )   SMD 8  
53 MISSION TIME.....(HR )   TMIS 0  
54 RESIDENCE TIME.....(HR )   TRES 125.5704311  
55 UNAVAILABILITY.....U       0.1156500412  
56     HARDWARE FAILURE.....HF   0.1  
57     TEST OUTAGE.....TOUT   0.0005952380952  
58     REPAIR OUTAGE.....RO    0.00406579213  
59     SCHEDULED MAINTENANCE.....SMO 0.01098901099  
60 AVAILABILITY.....A        0.8843499588  
61 -----

62 Another ? (y/n)