

UPN-APL01

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 2110.690504 MTBF: 473,779 Hours
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Issue date

2021-03-03

Deputy Manager

Louie Lee

Test Engineer

Danny Chen

Reliability Prediction (MTBF)

I. Model Name: UPN-APL01

II. Prediction Date: Mar. 03th, 2021

III. Prediction Site: AAEON Q.E. Dept.

IV. Predicted by: Danny Chen

V. Equipment: Windchill Quality Solutions 10.1

VI. Simulation Environment:

- Temperature: 30 degrees C
- Standard: Telcordia (Bellcore) Standard

VII. Term and Definition:

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The Failure rate multiplier is 1000000000.
- MTBF : MTBF is always specified in hours.

VIII. Prediction Result:

UPN-APL01 (M/B: 9697ES0201-D)

- Failure Rate: 2110.690504

- MTBF: 473,779 Hours

**AAEON Reliability Prediction
Summary**

File Name: UPN-APL01.rfp
Duty Cycle: 100
Calculation Model: Telcordia Issue 2
Method: Method I Case 3

Failure Rate: 2110.690504
MTBF (hrs): 473,779
Temperature: 30
Environment: AUF - Airborne Uninhab Fighter

Assembly Name	Part Number	Ref Des	Quantity	Failure Rate	MTBF
UPN-APL01	9697UPNA09-D		1	2110.690504	473,779

File Name: UPN-APL01.rfp
Assembly: 9697UPNA09-D
Ref Des:
Description:

Failure Rate: 2110.690504
MTBF (hrs): 473,779
Temperature: 30
Environment: AUF - Airborne Uninhab Fighter

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
1050200134	Resistor	R1142		0.849013	1	847022022.239005
1050501054	Resistor	R735,R803,R804		0.849013	3	321062264.960549
1050501234	Resistor	R547		0.849013	1	847022022.239005
1050501514	Resistor	R11,R12,R13		0.849013	3	321062264.960549
1050501834	Resistor	R1140		0.849013	1	847022022.239005
1050502004	Resistor	R55,R56,R57,R59,R60,R61,R62,R63		0.849013	8	129676274.094900
1050502224	Resistor	R1004		0.849013	1	847022022.239005
1050502234	Resistor	R1009,R1010,R1012		0.849013	3	321062264.960549
1050504724	Resistor	R1060,R1078,R938		0.849013	3	321062264.960549
1050505124	Resistor	R1016		0.849013	1	847022022.239005
1050505134	Resistor	R584,R585,R588		0.849013	3	321062264.960549
1050507524	Resistor	R1139		0.849013	1	847022022.239005
1050507530	Resistor	R979		0.849013	1	847022022.239005
1050508224	Resistor	R1000,R999		0.849013	2	462236335.164256
1050510004	Resistor	R1084,R520,R523, R533		0.849013	4	246929276.068637
1050510014	Resistor	R1005,R1122		0.849013	2	462236335.164256
1050510024	Resistor	R1013,R1120,R1124,R1127,R898,R900,R901,R905,R907,R909,R910,R911,R912,R913,R914,R915,R922,R923,R924,R925,R933,R936,R937,R940,R942,R944,R946,R947,R948,R949,R950,R951,R958,R959,R960,R961, R990		0.849013	37	29975966.817471
1050510034	Resistor	R1131,R1132,R770		0.849013	3	321062264.960549

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1050510504	Resistor	R1,R2		0.849013	2	462236335.164256
1050510524	Resistor	R519		0.849013	1	847022022.239005
1050511304	Resistor	R25		0.849013	1	847022022.239005
1050512734	Resistor	R769		0.849013	1	847022022.239005
1050516014	Resistor	R1137		0.849013	1	847022022.239005
1050520004	Resistor	R103,R156,R 48		0.849013	3	321062264.960549
1050520034	Resistor	R131,R776,R 807, R809		0.849013	4	246929276.068637
1050522004	Resistor	R104		0.849013	1	847022022.239005
1050524004	Resistor	R205,R206,R 230, R231,R777,R 778, R779,R780		0.849013	8	129676274.094900
1050524034	Resistor	R973		0.849013	1	847022022.239005
1050533064	Resistor	R1019,R850, R851, R852,R853		0.849013	5	201024426.307764
1050540204	Resistor	R10,R8,R9		0.849013	3	321062264.960549
1050545324	Resistor	R988		0.849013	1	847022022.239005
1050547004	Resistor	R674,R675,R 676, R678,R679,R 680, R681,R682		0.849013	8	129676274.094900
1050551114	Resistor	R1125		0.849013	1	847022022.239005
1050597623	Resistor	R583		0.849013	1	847022022.239005
1050700002	Resistor	R890		0.849013	1	847022022.239005

**Reliability Prediction
Summary**

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1050700004	Resistor	R1021,R1054, R1072, R1086,R1092, R1093, R1094,R1095, R1096, R1097,R1098, R1099, R1100,R1101, R1113, R1114,R1115, R1116, R1117,R1118, R1119, R1121,R1130, R1134, R1136,R1141, R1144, R1146,R1147, R1150, R1165,R140, R141, R142,R145,R185, R186,R187,R26, R314, R338,R382,R3		0.849013	114	9979610.983828

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1050701034	Resistor	R1002,R1003 ,R1023, R1050,R1051 ,R1055, R1068,R1069 ,R1073, R108,R1106, R1109, R111,R1110, R112, R114,R1164, R128, R130,R133,R 134, R162,R163,R 164, R166,R167,R 171, R178,R24,R2 97,R309, R316,R317,R 336,R37, R39,R41,R42 ,R429, R430,R44,R4 5,R476, R478,R479,R 481, R483,		0.849013	88	12867503.726279
1050701044	Resistor	R1083,R1143 ,R136, R180,R195,R 298, R299,R374,R 376, R560,R561,R 565, R572,R574,R 578, R670,R673,R 764, R771,R772,R 801, R802,R969		0.849013	23	47478783.690871

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1050710014	Resistor	R1035,R1036 ,R1037, R1038,R1039 ,R1040, R109,R115,R 116, R1163,R117, R118, R123,R124,R 125, R127,R135,R 161, R300,R301,R 467, R468,R469,R 470, R487,R501,R 502, R749,R757,R 758, R978		0.849013	31	35585702.871641
1050747014	Resistor	R100,R101,R 102, R1031,R1032 ,R1033, R1034,R110, R1102, R35,R36,R37 7,R38, R40,R71,R72 7,R902		0.849013	17	63481266.897754
1059700001	Resistor	R833,R896,R 932		0.849013	3	321062264.960549
105A500173	Resistor	R183,R184,R 188, R189,R190,R 191, R766		0.849013	7	146973713.897655
105A501139	Resistor	R586		0.849013	1	847022022.239005
105A502039	Resistor	R1011,R1015		0.849013	2	462236335.164256
105A502263	Resistor	R1138,R530, R552		0.849013	3	321062264.960549
105A507509	Resistor	R1007,R1008		0.849013	2	462236335.164256
105A519629	Resistor	R527		0.849013	1	847022022.239005
105A538323	Resistor	R587		0.849013	1	847022022.239005
105A549919	Resistor	R926,R962		0.849013	2	462236335.164256
105A560469	Resistor	R22		0.849013	1	847022022.239005

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105A700003	Resistor	R522,R528,R534, R553,R558,R582, R787,R788,R805, R983,R996		0.849013	11	96149089.156414
105A701069	Resistor	R132		0.849013	1	847022022.239005
105A702039	Resistor	R160,R165		0.849013	2	462236335.164256
105A702213	Resistor	R1154		0.849013	1	847022022.239005
105A702223	Resistor	R1158		0.849013	1	847022022.239005
105A702229	Resistor	R119,R120,R121,R3, R4,R412,R413,R492, R493,R494,R495,R5, R6,R790,R792,R794, R798		0.849013	17	63481266.897754
105A702269	Resistor	R1133		0.849013	1	847022022.239005
105A703309	Resistor	R1024,R138		0.849013	2	462236335.164256
105A703329	Resistor	R436,R437,R916, R917,R918,R919, R920,R927,R928, R952,R953,R954, R955,R956,R963, R964		0.849013	16	67275419.428938
105A715003	Resistor	R929,R930,R931, R965,R966,R967		0.849013	6	169721870.032947
105B700009	Resistor	R1082,R630, R730, R731		0.849013	4	246929276.068637
105B702205	Resistor	R751,R752,R753, R754		0.849013	4	246929276.068637
105B702225	Resistor	R440,R441,R442, R443		0.849013	4	246929276.068637
105B703309	Resistor	R876,R877,R878		0.849013	3	321062264.960549

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1121501690	Capacitor	C110,C116,C12,C122,C126,C172,C173,C176,C2,C206,C208,C212,C225,C227,C260,C3,C314,C327,C328,C331,C332,C334,C335,C339,C34,C340,C343,C346,C347,C35,C351,C36,C37,C372,C381,C382,C383,C384,C385,C386,C387,C388,C435,C441,C449,C454,C460,C466,C470,C480,		0.376269	104	24943337.395931
1121610180	Capacitor	C706,C707,C708		0.376269	3	772542517.059210
1124368690	Capacitor	C630		0.376269	1	2114932934.076862
1124418090	Capacitor	C11,C629,C9		0.376269	3	772542517.059210
1124427090	Capacitor	C648,C649,C658,C659		0.376269	4	590620153.232529
1124433090	Capacitor	C492		0.376269	1	2114932934.076862
1124433690	Capacitor	C623		0.376269	1	2114932934.076862
1124515281	Capacitor	C499		0.376269	1	2114932934.076862
1124522190	Capacitor	C753		0.376269	1	2114932934.076862
1124547290	Capacitor	C447,C474		0.376269	2	1125869193.228148
1129701790	Capacitor	C484,C724		0.376269	2	1125869193.228148

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1129710090	Capacitor	C10,C368,C369,C370,C371,C719,C718		0.376269	7	346901597.314283
1129710390	Capacitor	C476,C676		0.376269	2	1125869193.228148
1183610192	Capacitor	C762		0.376269	1	2114932934.076862
1189610151	Capacitor	C704,C705		0.376269	2	1125869193.228148
1189615154	Capacitor	C737,C738,C741,C745		0.376269	4	590620153.232529
118A6221B0	Capacitor	C616,C621,C672,C673		0.376269	4	590620153.232529
118C6331B0	Capacitor	TC1,TC2		0.376269	2	1125869193.228148
11A2410051	Capacitor	C627		0.376269	1	2114932934.076862
11A4410241	Capacitor	C770		0.376269	1	2114932934.076862
11A4439040	Capacitor	C624		0.376269	1	2114932934.076862
11C1501030	Capacitor	C773		0.376269	1	2114932934.076862
11C1539841	Capacitor	C647,C657		0.376269	2	1125869193.228148
11C4501650	Capacitor	C660		0.376269	1	2114932934.076862
11C4510480	Capacitor	C430,C446,C469,C661,C765,C771		0.376269	6	401939175.169025
11C4515290	Capacitor	C780		0.376269	1	2114932934.076862
11C4533380	Capacitor	C497		0.376269	1	2114932934.076862
11C4547240	Capacitor	C767		0.376269	1	2114932934.076862
11C5501530	Capacitor	C763		0.376269	1	2114932934.076862
11C9510490	Capacitor	C696,C697,C698,C699		0.376269	4	590620153.232529
11CB510350	Capacitor	C195,C196,C197,C199		0.376269	4	590620153.232529

**Reliability Prediction
Summary**

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11E1501040	Capacitor	C100,C101,C102, C104,C105,C13,C14, C15,C207,C213,C23, C24,C25,C26,C261, C27,C28,C29,C30, C31,C32,C33,C352, C373,C374,C375, C376,C377,C378, C379,C38,C380,C39, C40,C41,C42,C43, C479,C488,C50,C51, C52,C53,C564,C565, C609,C625,C63,C64, C65,C66,C70,C702, C703, C764,C766		0.376269	74	34900650.703806
11E1547631	Capacitor	C700,C701		0.376269	2	1125869193.228148
11E1547650	Capacitor	C493		0.376269	1	2114932934.076862
11E2501040	Capacitor	C266,C289,C496, C726,C727,C728, C729,C730,C732, C733,C734,C735, C736,C752		0.376269	14	177948894.033705
11E2522060	Capacitor	C494,C500		0.376269	2	1125869193.228148
11E2610032	Capacitor	C761		0.376269	1	2114932934.076862
11E4510022	Capacitor	C662,C663,C664		0.376269	3	772542517.059210
11E4547610	Capacitor	C750		0.376269	1	2114932934.076862

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11E4982641	Capacitor	C628		0.376269	1	2114932934.07686 2
11E9510490	Capacitor	C159,C160,C161, C162,C167,C168, C174,C175,C209, C210,C214,C215, C216,C217,C262, C263,C264,C265, C285,C286,C287, C288,C308,C309, C310,C311,C312, C313,C315,C316, C319,C320,C321, C322,C323,C324, C325,C326,C593, C594,C614,C615, C743,C744,C775, C776,C777,C778		0.376269	48	53440620.674626
11E9547680	Capacitor	C489,C490		0.376269	2	1125869193.22814 8
11E9622052	Capacitor	C198,C205,C211, C226,C431,C433, C438,C467,C491, C739		0.376269	10	246303172.644355

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11E9622080	Capacitor	C103,C106,C114, C115,C120,C121, C125,C129,C19,C20, C21,C22,C428,C44, C442,C443,C45,C450, C451,C455,C46,C461, C463,C47,C471,C475, C478,C48,C49,C501, C54,C55,C56,C57, C570,C571,C575,C58, C580,C581,C585,C59, C67,C73,C77,C78, C79,C80,C81,C82, C83,C84,C85,C90,		0.376269	56	45924849.060559
11E9647690	Capacitor	C107,C111,C112, C117,C118,C123, C127,C483,C485, C536,C567,C568, C573,C577,C578, C583,C599		0.376269	17	147399909.221434
11EA501050	Capacitor	C617,C622		0.376269	2	1125869193.228148
11EA610040	Capacitor	C330,C333,C611, C613,C634,C639, C641,C642,C646, C650,C652,C656, C716		0.376269	13	191185426.232527
11EA610120	Capacitor	C429,C436,C472, C473		0.376269	4	590620153.232529
11EA647010	Capacitor	C60,C61,C62		0.376269	3	772542517.059210

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11EB501040	Capacitor	C691,C725,C731		0.376269	3	772542517.059210
11EB522640	Capacitor	C329,C486,C487,C759		0.376269	4	590620153.232529
11EB610050	Capacitor	C113,C119,C124,C128,C341,C342,C448,C457,C462,C569,C574,C579,C584,C671,C709,C710,C711,C712,C720		0.376269	19	132293090.650579
11EB622030	Capacitor	C679,C680,C754,C755,C756,C757,C758,C769,C781		0.376269	9	272590284.242838
121110106Z	Inductor	L24		1.648084	1	464282892.430380
121110156P	Inductor	L25		1.648084	1	464282892.430380
1211102274	Inductor	L18		1.648084	1	464282892.430380
121110477A	Inductor	L17,L19,L20,L21,L22		1.648084	5	106895644.748998
1211110061	Inductor	L23		1.648084	1	464282892.430380
121230603N	Inductor	FB20,FB45,FB47,FB8		1.648084	4	131738617.274324
121230603S	Inductor	FB43		1.648084	1	464282892.430380
121230603Z	Inductor	FB38,FB40,FB41		1.648084	3	172089853.126111
12123A000D	Inductor	FB34,FB35		1.648084	2	249603186.449247
12123C000E	Inductor	FB39,FB42		1.648084	2	249603186.449247
12123C003B	Inductor	FB32,FB49,FB50		1.648084	3	172089853.126111
12123D0008	Inductor	FB29,FB30		1.648084	2	249603186.449247
12123E000A	Inductor	FB36,FB37		1.648084	2	249603186.449247
1214109000	Inductor	CH23,CH24,C H25,CH26,CH27,C H28,CH29,CH30,C H32,CH4,CH7,CH8		1.648084	12	46561849.550951
1214109004	Inductor	CH10,CH11,C H12,CH2,CH31,CH33,C H34,CH9		1.648084	8	68622147.294690

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12310025A5	Miscellaneous	Y3,Y4		6.400000	2	26562155.256590
12310192A0	Miscellaneous	Y1		6.400000	1	71532788.312819
1231327631	Miscellaneous	Y2		6.400000	1	71532788.312819
12330024A4	Miscellaneous	Y5		6.400000	1	71532788.312819
1300054040	Semiconductor	D23		2.597804	1	278421930.032950
1301000541	Semiconductor	D18		2.597804	1	278421930.032950
1301001000	Semiconductor	D26,D27		2.597804	2	151734285.670195
1301005450	Semiconductor	D1		2.597804	1	278421930.032950
13041005Q0	Optical Device	LED1		26.334452	1	19491518.247337
13041005S0	Optical Device	LED2		26.334452	1	19491518.247337
13041005S1	Optical Device	LED4		26.334452	1	19491518.247337
13041005Z0	Optical Device	LED3		26.334452	1	19491518.247337
1304300140	Optical Device	LED5		26.334452	1	19491518.247337
1305040241	Semiconductor	D10,D15,D24 ,D6,D8		2.597804	5	65895094.212760
1305050040	Semiconductor	D14		2.597804	1	278421930.032950
1305080040	Semiconductor	P_U1,P_U2,P_U3		2.597804	3	105320576.886002
1310390410	Semiconductor	Q19		7.487787	1	94927802.245258
1315000530	Semiconductor	Q58		7.487787	1	94927802.245258
1315013810	Semiconductor	Q15,Q37		7.487787	2	51945285.198303
1315036640	Semiconductor	Q23		7.487787	1	94927802.245258
131520P030	Semiconductor	Q25,Q27,Q29		7.487787	3	36129989.368618
1315230111	Semiconductor	Q18		7.487787	1	94927802.245258
1315642DT0	Semiconductor	Q22,Q24		7.487787	2	51945285.198303
13156A6BA1	Semiconductor	Q56,Q57		7.487787	2	51945285.198303
1315700216	Semiconductor	Q26,Q28,Q30,Q50		7.487787	4	27811823.136019
1315EM6K70	Semiconductor	Q20,Q36,Q4,Q41,Q42,Q46,Q48,Q49,Q5,Q54,Q55,Q59,Q6,Q63,Q64		7.487787	15	8084475.156528
1430021270	Integrated Circuit	U89		14.601001	1	35217607.766180
1430034250	Integrated Circuit	U57		14.601001	1	35217607.766180
1430053251	Integrated Circuit	U70		14.601001	1	35217607.766180
1430082880	Integrated Circuit	U90		14.601001	1	35217607.766180
1436509402	Integrated Circuit	U56		14.601001	1	35217607.766180
143ALC8880	Integrated Circuit	U94		14.601001	1	35217607.766180
143PS20010	Integrated Circuit	U18,U21,U99		14.601001	3	14769720.207483
1440210AT0	Integrated Circuit	U81,U85		14.601001	2	20504373.732590
1440N42001	Integrated Circuit	U1		7.235588	1	71067107.373746
1463X00005	Integrated Circuit			3.687759	1	174694239.661928
1468MT53D1	Integrated Circuit	U10,U11,U71,U72		3.687759	4	53291971.228168
146900000K	Integrated Circuit	U41		3.687759	1	174694239.661928

File Name: UPN-APL01.rfp
Assembly: 9697UPNA09-D
Ref Des:
Description:

Failure Rate: 2110.690504
MTBF (hrs): 473,779
Temperature: 30
Environment: AUF - Airborne Uninhab Fighter

Part Number	Category	Ref Des	Tem.Rise	Unit Failure Rate	Quantity	MTBF,Unit
148210M023	Integrated Circuit	U52		14.601001	1	35217607.766180
14909665T1	Integrated Circuit	U91		14.601001	1	35217607.766180
149F759140	Integrated Circuit	U92,U93		14.601001	2	20504373.732590
149TS01040	Integrated Circuit	U102,U3,U46,U69		14.601001	4	11637470.731983
14EX000474	Integrated Circuit	U43		14.601001	1	35217607.766180
14S3104500	Integrated Circuit	U100,U101,U103,U104,U19,U20,U22,U23,U24,U29,U35,U36,U38,U39,U74,U83,U84,U86,U88		14.601001	19	2972470.506177
14S4121602	Integrated Circuit	U95		14.601001	1	35217607.766180
14S4814380	Integrated Circuit	U97,U98		14.601001	2	20504373.732590
14S5A00821	Integrated Circuit	U65,U9		14.601001	2	20504373.732590
14S5A30601	Integrated Circuit	U40,U75,U76		14.601001	3	14769720.207483
14S6324640	Integrated Circuit	U6		14.601001	1	35217607.766180
1601000990	Connection	SW1		5.394945	1	107056774.080635
165250320K	Connection	CN23		5.394945	1	107056774.080635
1652708203	Connection	CN29		5.394945	1	107056774.080635
1652828204	Connection	CN18		5.394945	1	107056774.080635
1653002100	Connection	CN31,CN32		5.394945	2	61170457.142237
1653006205	Connection	CN22		5.394945	1	107056774.080635
165302020L	Connection	CN20		5.394945	1	107056774.080635
1653300101	Connection	CN31(1-2)		5.394945	1	107056774.080635
1653530130	Connection	CN26		5.394945	1	107056774.080635
1654207533	Connection	CN7		5.394945	1	107056774.080635
1654207536	Connection	CN27		5.394945	1	107056774.080635
165420753B	Connection	CN28		5.394945	1	107056774.080635
1654403931	Connection	CN24		5.394945	1	107056774.080635
1654801033	Connection	CN13		5.394945	1	107056774.080635
16548X0002	Connection	USB1		5.394945	1	107056774.080635
1654900693	Connection	SIM1		5.394945	1	107056774.080635
1654907009	Connection	CN9		5.394945	1	107056774.080635
1655302025	Connection	CN10		5.394945	1	107056774.080635
1655802020	Connection	CN17		5.394945	1	107056774.080635
1655810131	Connection	CN16		5.394945	1	107056774.080635
1655901000	Connection	COM1,COM2		5.394945	2	61170457.142237
1655902034	Connection	CN1		5.394945	1	107056774.080635
1655906033	Connection	CN34		5.394945	1	107056774.080635
175011301K	Connection	CN1		5.394945	1	107056774.080635
1752011002	Miscellaneous	F2,F3		0.800000	2	431834181.589876
1752300001	Miscellaneous	F1		0.800000	1	763878127.807005