

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

Item	Aircraft Make	Aircraft Model	TCDS	Cert Basis / Amendment	Master Data List Revision / FAA Approved Date*	AFMS Revision / FAA Approved Date*	Initial Approval Date	Amendment Date
1	Textron Aviation Inc.	F33A, M35, V35, V35A, V35B, A36, A36TC, B36TC	3A15	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
2	Textron Aviation Inc.	58	3A16	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
3	Textron Aviation Inc.	172A, 172B, 172C, 172D, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172R, 172S	3A12	CAR3 and 14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
4	Textron Aviation Inc.	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182T, TR182	3A13	CAR3 and 14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
5	Textron Aviation Inc.	172RG, R172K, 175	3A17	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
6	Textron Aviation Inc.	U206G	A4CE	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
7	Textron Aviation Inc.	177, 177B	A13CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
8	Textron Aviation Inc.	177RG	A20CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
9	Mooney International Corporation	M20C, M20E, M20F, M20J, M20K	2A3	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
10	Piper Aircraft, Inc.	PA-23-250	1A10	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
11	Piper Aircraft, Inc.	PA-24-250, PA-24-260	1A15	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023

*Or later FAA Approved revision.

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12	Piper Aircraft, Inc.	PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T	2A13	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
13	Piper Aircraft, Inc.	PA-30	A1EA	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
14	Piper Aircraft, Inc.	PA-31-350	A20SO	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
15	Piper Aircraft, Inc.	PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300	A3SO	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	9/26/2019	11/6/2023
16	Piper Aircraft, Inc.	PA-32-301, PA-32-301FT, PA-32-301XTC, PA-32-301T, PA-32R-301 (HP), PA-32R-301 (SP), PA-32R-301T, PA-32RT-300T, PA-32S-300	A3SO	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	9/26/2019	11/6/2023
17	Piper Aircraft, Inc.	PA-34-200T	A7SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
18	Piper Aircraft, Inc.	PA-46-350P	A25SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
19	True Flight Holdings LLC	AA-5, AA-5A, AA-5B, AG-5B	A16EA	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
20	Textron Aviation Inc.	23, A23, A23-19, A23-24, A23A, A24, A24R, B23, B24R, C23, C24R	A1CE	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
21	Textron Aviation Inc.	A35, B35, C35, D35, 35, E35, F35, G35, 35R	A-777	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
22	Textron Aviation Inc.	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33C, G33, H35, J35, K35, N35, P35, S35, 36	3A15	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
23	Textron Aviation Inc.	A185E, A185, 185, 185A, 185B, 185C, 185D, 185E	3A24	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
24	Textron Aviation Inc.	190, 195, 195A, 195B	A-790	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023

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25	Textron Aviation Inc.	206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, TP206A, TP206B, TP206C, TP206D, TP206E, T206H, 206H, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G	A4CE	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
26	Textron Aviation Inc.	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, P210N, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, T210N, 210R, P210R, T210R, 210-5 (205), 210-5A (205A)	3A21	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
27	Piper Aircraft, Inc.	PA-24, PA-24-400	1A15	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
28	Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-201T, PA-28RT-201T	2A13	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
29	Piper Aircraft, Inc.	PA-39, PA-40	A1EA	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
30	CPAC, Inc.	112, 114, 112TC, 112B, 112TCA, 114A, 114B, 114TC	A12SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
31	Mooney International Corporation	M20, M20A, M20B, M20D, M20G, M20L, M20M, M20R, M20S, M20TN, M20U, M20V	2A3	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023
32	Daher Aerospace (Socata)	TB9, TB10, TB20, TB21, TB200	A51EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	N/A	11/6/2023

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33	Aerostar Aircraft Corporation	PA-60-600, PA-60-601, PA-60-601P, PA-60-602P, PA-60-700P	A17WE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
34	Cirrus Design Corporation	SR20, SR22 ,SR22T	A00009CH	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
35	American Champion Aircraft Corp	7EC, S7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCB, 7GCB, 7HC, 7JC, 7KC, 7KCAB	A-759	CAR 4a /CAR 8 /FAR Part 23 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
36	Diamond Aircraft Industries, Inc.	DA40, DA40F, DA40NG	A47CE	FAR Part21/FAR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
37	Diamond Aircraft Industries GmbH	DA42, DA42NG, DA42M-NG, DA62	A57CE	FAR Part21/FAR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
38	Diamond Aircraft Industries GmbH	DA20-A1, DA20-C1	TA4CH	FAR Part21/FAR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
39	Textron Aviation Inc.	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR3/FAR Part23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
40	Textron Aviation Inc.	310, 310A, (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1,310K, 310L, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR3/FAR Part23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
41	Piper Aircraft, Inc.	PA-28-235, PA-28-236	2A13	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
42	Textron Aviation Inc.	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M, 152, A152	3A19	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
43	Textron Aviation Inc.	120,140	A-768	Car 4a, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

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44	Textron Aviation Inc.	140A	5A2	Car 3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
44	Textron Aviation Inc.	172,172Q	3A12	CAR3/FAR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
45	Aermacchi S.p.A	F.260, F.260B, F.260C, F260D, F.260E, F260F	A10EU	CAR3/FAR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
46	AeroSedan, LLC	15AC, S15AC	A-802	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
47	Alexandria Aircraft	14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17-31, 17-31TC	1A3	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
48	Alexandria Aircraft	17-30A, 17-31A	A18CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
49	Alexandria Aircraft	17-31ATC	A18CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
50	B-N Group Ltd. (Pilatus Britten-Norman)	BN-2, BN-2A, BN-2A-2	A17EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
51	American Champion	8KCAB,8GCBC	A21CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
52	Aviat Aircraft, Inc.	A-1, A-1A, A-1B, A-1C-180, A-1C-200	A22NM	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
53	Aviat Aircraft	S-1S, S-1T, S-2, S-2A, S-2S, S-2B, S-2C	A8SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
54	Dynac Aerospace Corporation (Volaire) (Aero Commander)	10, 10A, 100, 100A, 100-180	1A21	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
55	Textron Aviation Inc.	19A, B19, M19A	A1CE	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
56	Textron Aviation Inc.	G36	3A15	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
57	Textron Aviation Inc.	35	A-777	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

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58	Textron Aviation Inc.	A45(T-34A,B-45), D45(T-34b)	5A3	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
59	Textron Aviation Inc.	77	A30CE	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
60	Textron Aviation Inc.	95, B95, B95A, D95, D95A, E95, 95-55, 95-A55, 95-B55, 99-B55A, 95-B55B (military T-42a), 95- C55, D55, 95-C55A, D55A, E55, E55A, 58, 58A, G58, 56TC, A56TC	3A16	CAR3, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
61	Textron Aviation Inc.	58P, 58PA, 58TC, 58TCA	A23CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
62	Textron Aviation Inc.	60, A60, B60	A12CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
63	Textron Aviation Inc.	170, 170A, 170B	A-799	CAR3,as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
64	Textron Aviation Inc.	177A	A13CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
65	Textron Aviation Inc.	A185F	3A24	CAR3,as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
66	Textron Aviation Inc.	188, A188, 188A, A188A, 188B, A188B, T188C	A9CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
67	Textron Aviation Inc.	207, 207A, T207, T207A	A16CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
68	Textron Aviation Inc.	320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F, 340, 340A, 335	3A25	CAR3,as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

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69	Textron Aviation Inc.	336	A2CE	CAR3,as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
70	Textron Aviation Inc.	337, 337A (USAF 02B), 337B, 337C, 337D, 337E, 337F, M337B (USAF 02A), 337G, 337H, T337B, T337C, T337D, T337E, T337F, T337G, P337H, T337H, T337H-SP	A6CE	CAR3/ Part 23 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
71	Cougar Aircraft Corporation	GA-7	A17SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
72	Extra Aerobatic Aircraft GmbH	EXTRA NG	A00078CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
73	Extra Flugzeugproduktion s- und Bertriebs-GmbH	EXTRA, EA 300, EA 300/L, EA 300/S, EA300/200, EA 300/LC	A67EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
74	Luscombe Aircraft Corporation	8, 8A, 8B,8C,8D, 8E, 8F, T-8F	A-694	CAR4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
75	NZSkydive Limited	FBA-2C, FBA-2C1, FBA-2C2, FBA-2C3, FBA-2C3T, FBA-2C4, FBA-2C4T	A7EA	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
76	GA 8 Airvan (Pty) Ltd	GA8, Ga8-TC320	A00011LA	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
77	GROB Aircraft AG	G120A	A49CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

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78	GROB Aircraft AG	G115A, G115B, G115C2, G115C, G115D2, G115D, G11EG, G115	A57EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
79	Interceptor Aviation, Inc.	200, 200A, 200B, 200C, 200D, 400	3A18	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
80	Lavia Argentina S.A	PA-25, PA-25-235, PA-25-260	2A10	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
81	Maule Aerospace Technology, Inc.	Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-180V, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M4-220C, M-4-220S, M4-220T, M-5-200, M-5-180C, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235A, M-7-235B, M-7-235C, M-7-235, M-7-260C, M-7-260, M-7-420, M-7-420AC, M-8-235, MT-7-235, MT-7-260, MX-7-160C, MX-7-160, MX-7-180AC, MX-7-180A, MX-7-180B, MX-7-180C, MX-7-180, MX-7-235, MX-7-420, MXT-7-160, MXT-7-180A, MXT-7-180, M-9-235, MT-7-420, MT-7-420A	3A23	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
82	Sierra Hotel Aero, Inc.	NAVION, Navion (L-17A), Navion A (L-17B), (L-17C), Navion B, Navion D, Navion D, Navion E, Navion F, Navion G, Navion H	A-782	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
83	Piper Aircraft Inc.	PA 23, PA-23-160, PA-23-235, PA-23-250 (Navy UO-1), PA-E23-250	1A10	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

84	FS 2003 Corporation (Piper Aircraft, Inc.)	PA-12, PA-12S	A-780	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
85	Piper Aircraft, Inc.	PA-18, PA-18S, PA-18 "105" (Special), PA-18S "105" (Special), PA-18A, PA-18 "125" (Army L-21A), PA-18S "125", PA-18AS "125", PA- 18 "135" (Army L-21B), PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150", PA- 19 (Army L-18C), PA-19S	1A2	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
86	Piper Aircraft, Inc.	PA-16, PA-16S	1A1	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
87	FS 2003 Corporation (Piper Aircraft, Inc.)	PA-12	A-780	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
89	Piper Aircraft, Inc.	PA-31, PA-31-300	A20SO	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
90	Piper Aircraft, Inc.	PA-34-200, PA-34-220T	A7SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
91	Piper Aircraft, Inc.	PA-44-180, PA-44-180T	A19SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
92	Piper Aircraft, Inc.	PA-46-310P, PA-46R-350T	A25SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
93	Piper Aircraft, Inc.	PA-28S-160, PA-28S-180	2A13	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
94	Piper Aircraft, Inc.	PA-38-112	A18SO	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
95	Piper Aircraft, Inc.	PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22- 150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
96	Piper Aircraft, Inc.	PA-20, PA-20S, PA-20 "115", PA-20S "115", PA-20 "135", PA-20S "135"	1A4	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

**Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V**

97	Revo, Incorporated	Colonial C-1, Colonial C-2, Lake LA-4-200, Lake LA-4A, Lake LA-4P, Lake LA-4, Lake Model 250	1A13	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
98	SOCATA Morane Saulnier Rallye (SOCATA) [SOCATA – Groupe Aerospatiale]	Rallye 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C, MS 880B, MS 885, MS 894A, MS 893A, MS 892A-150, MS 892E-150, MS 893E, MS 894E	7A14	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
99	Swift Museum Foundation, Inc.	GC-1A, GC-1B	A-766	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
100	True Flight Holdings LLC [American General]	AA-1, AA-1A, AA-1B, AA-1C	A11EA	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
101	Emerald Enterprises (Wing)	D-1	A9WE	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
102	MICCO Aircraft Company, Inc	MAC-125, MAC-145, MAC-145A, MAC-145B	3A1	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
103	Piper Aircraft, Inc.	PA-18, PA-18S, PA-18 “105” (Special), PA-18S “105” (Special), PA-18A, PA-18 “125” (Army L- 21A), PA-18S “125”, PA-18AS “125”, PA-18 “135” (Army L- 21B), PA-18A “135”, PA-18S “135”, PA-18AS “135”, PA-18 “150”, PA-18A “150”, PA-18S “150”, PA-18AS “150”, PA-19 (Army L-18C), PA-19S	1A2	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
104	Piper Aircraft, Inc.	PA-16, PA-16S	1A1	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
105	Twin Commander Aircraft LLC	500, 500A, 520,560,560A	6A1	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

106	Aermacchi	S.205-18/F, S.205-18/R, S.205-20/F, S.205-20/R, S.205-22/R, S.208, S.208A	A9EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
107	Aircraft Parts & Development Corp	A, A-2, A-4, A-5, A- 5T, A-6	A-758	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
108	American Champion Aircraft Corp.	11AC, S11AC, 11BC, S11BC	A-761	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
109	American Champion Aircraft Corp.	11CC, S11CC	A-796	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
110	Textron Aviation Inc.	F150F, F150G, F150H, F150J, F150K, F150L, FA150L, FA150K, FRA150L, F150M, FRA150M, FA150M, F152, FA152	A13EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
111	Textron Aviation Inc.	F172D, F172E, F172F, F172G, F172H, F172K, F172L, F172M, F172N, F172P	A4EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
112	Textron Aviation Inc.	F177RG	A26EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

113	Topcub Aircraft	CC18-180, CC18-180A	A00006SE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
114	Cub Crafters, Inc.	CC19-180, CC19-215	A00053SE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
115	FS 2002 Corporation	PA-14	A-797	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
116	FS 2002 Corporation	L-14	TC 760	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
117	Piper Aircraft	J-3	ATC 660	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
118	Piper Aircraft	J4E (Army L-4E)	A-740	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
119	Piper Aircraft	J4, J4A, J4A-S	A-703	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

120	Piper Aircraft	PA-17	A-805	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
121	Piper Aircraft	PA-18A (Restricted) PA-18A "135" (Restricted) PA-18A "150" (Restricted)	AR-7	CAR 8 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
122	Piper Aircraft	J3C-40, J3C-50, J3C- 50S, J3C-65, J3C-65S, PA-11, PA-11S	A-691	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
123	Vulcanair S.p.A	P.68, P.68B, P.68C, P.68C-TC, P.68R, P.68"OBSERVER", P.68TC"OBSERVER", P.68"OBSERVER2", AP68TP-600"VIATOR"	A31EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
124	Zenair Ltd.	CH2000	TA5CH	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
125	ZLIN Aircraft a.s.	Z-242L, Z-143L	A76EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
126	Windecker Aircraft Inc.	AC-7	A7SW	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

127	Aeronautica Macchi S.p.A.	AL 60, AL 60-B, AL 60-F5, AL 60-C5	7A12	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
128	Aircraft Parts & Development Corp.	A-9A	A4WE	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
129	Anderson, Greenwood and Company	51, 51A	A11SW	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
130	Beriev Aircraft Company	Be-103	A55CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
131	Textron Aviation Inc.	FR172E, FR172F, FR172G, FR172H, FR172J, FR172K	A18EU	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
132	Textron Aviation Inc.	F182P, F182Q, FR182	A42EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
133	Textron Aviation Inc.	LC40-550FG, LC41-550FG, LC42-550FG, T240	A00003SE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

134	Textron Aviation Inc.	T303	A34CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
135	Textron Aviation Inc.	321	3A11	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
136	Textron Aviation Inc.	F337E, F337G, FT337E, FT337GP, F337F, F337H, FT337F, FT337HP	A23EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
137	GeneralAtomics AeroTec Systems GmbH	Do 28 A-1, Do 28 B-1	7A13	CAR 10 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
138	SST Flugtechnik GmbH	EA 400, EA400-500	A43CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
139	Frontier-Aerospace Incorporated	FU-24, FU-24A	4A12	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
140	FLS aerospace (Lovaux) Ltd	OA7 Optica Series 300	A64EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

141	Found Brothers Aviation Limited	FBA Centennial "100"	A13EA	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
142	Fred Garcia	Camair, 480	2A2	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
143	GENERAL AVIA	F.20 "Pegaso"	A38EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
144	Helio Aircraft Corporation	15A, 20	3A3	CAR 4a as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
145	Helio Alaska, Inc	H-250, (USAF U-10D) H-295, HT-295, (USAF YL-24) H-391, H-391B, (USAF L-28A or U10B) H-395, H-395A, H-700, H-800	1A8	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
146	Helio Aircraft LLC.	500	A2EA	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
147	Ilyushin Aviation Complex	TL-103	A45CE	FAR Par 21 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

148	The King's Engineering Fellowship	4500-300, 4500-300 Series II	A17CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
149	The King's Engineering Fellowship	44	A2WI	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
150	Lockheed Marin Aeronautics Company	402-2	2A11	CAR3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
151	W.Z.D Enterprises Inc.,	11A, 11E	A-804	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
153	NARDI S.A	FN-333	7A5	CAR 10 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
156	Polskie Zakłady Lotnicze Spolka zo.o,	PZL M26 01	A44CE	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
157	WSK PZL MIELEC and OBR SK MIELEC	PZL M20 03	A68EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA APPROVED MODEL LIST (AML) NO. SA04400NY

TCW Technologies LLC

Installation of the Integrated Backup Battery System (IBBS), Models
IBBS-12v-6ah-CRT-V, IBBS-12v-3ah-CRT-V, and IBBS-24v-3ah-CRT-V

158	Regal Air Incorporated	305B, 305E	3A14	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
158	Regal Air Incorporated	305A, 305C, 305D, 305F	5A5	CAR 3 as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
159	Ruschmeyer Luftfahrttechnik GmbH	R90-230RG	A77EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
160	Transfield Pty. Ltd.	PI-12/T-300	A17NM	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	
161	Airbus Poland S.A.	PZL-104 WILGA 80, PZL-104M WILGA 2000, PZL-104MA WILGA 2000	A55EU	14 CFR Part 23, as listed in the TCDS	760.0022 Rev 1.5 9/18/23	725.0005 Rev 1.9 6/29/23	11/6/2023	

FAA Approved: _____

for Christina M. Underwood
Manager, East Certification Branch
Compliance & Airworthiness Division
Aircraft Certification Service