



U.S. Department
of Transportation
**Federal Aviation
Administration**

Aircraft Certification Service
Compliance & Airworthiness Division

Seattle ACO Branch
1601 Lind Avenue Southwest
Renton, WA 98057-3356

NOV - 7 2017

In Reply
Refer To: 784-17-1969

Mr. Scott Philiben
CiES, Inc.
1375 SE Wilson Ave, Suite 150
Bend, OR 97702

Dear Mr. Philiben:

We have completed our evaluation of your request for amendment to your Approved Model List (AML) SA02511SE, to add the Britten Norman Islander twin engine aircraft BN-2 and Garmin G500/600 TXi instrument combination, per your application, dated October 26, 2017. We find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed AML SA02511SE, dated November 7, 2017.

Since I am very much interested in the service we provide to the aviation community and the general public, it would be helpful if you would provide your thoughts and comments regarding how the approval process went. To gather this information, we have provided this letter and its enclosures electronically and also attached a short survey that I hope you will fill out and return via e-mail as indicated on the survey. Please make the subject line of the return e-mail read "Survey" to ensure proper receipt. You may rest assured that your comments will receive my full attention and that I will hold your comments in strict confidence, should you request I do so. Please note that this stakeholder survey is common to all Aircraft Certification offices within the FAA's Aircraft Certification Service and is aimed at enabling the Aircraft Certification Service to deliver the best services to each of our stakeholders.

Sincerely,

Rov
Ross Landes
Manager, Seattle ACO Branch
Compliance & Airworthiness Division
Aircraft Certification Service

Enclosure

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA025115E

FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION REQUIREMENTS & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS		STC MASTER DRAWING LIST		CIES SENDER PART NUMBERS APPROVED FOR INSTALLATION	APPROVED SENDER AND INSTRUMENT COMBINATIONS	AML REV DATE
					Number	Revision*	Number	Revision**			
1.	Textron Aviation Inc. (formerly Cessna)	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3, 14 CFR 23	CC-TR-2840-031	N/C	CC2840 00 03	N/C	CC284022 0603-XX1	1-11, 14, 15, 18, 19, 20, 23, 24	11/7/17
									CC284022 0603-XX2		
2.	Textron Aviation Inc. (formerly Cessna)	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, T182T, TR182	3A13	CAR 3, 14 CFR 23	CC-TR-2840-031	N/C	CC2840 00 03	N/C	CC284022 0602-XX1	1-11, 14, 15, 18, 19, 20, 23, 24	11/7/17
									CC284022 0602-XX2		
3.	Textron Aviation Inc. (formerly Cessna)	P172D, R172E, R172F, R172G, R172H, R172J, R172K, 172RG	3A17	CAR 3, 14 CFR 23	CC-TR-2840-031	N/C	CC2840 00 03	N/C	CC284022 0603-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17
									CC284022 0603-XX2		
4.	Textron Aviation Inc. (formerly Cessna)	210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, 210S, 210T, 210U, 210V, 210W, 210X, 210Y, 210Z, 210AA, 210AB, 210AC, 210AD, 210AE, 210AF, 210AG, 210AH, 210AI, 210AJ, 210AK, 210AL, 210AM, 210AN, 210AO, 210AP, 210AQ, 210AR, 210AS, 210AT, 210AU, 210AV, 210AW, 210AX, 210AY, 210AZ, 210BA, 210BB, 210BC, 210BD, 210BE, 210BF, 210BG, 210BH, 210BI, 210BJ, 210BK, 210BL, 210BM, 210BN, 210BO, 210BP, 210BQ, 210BR, 210BS, 210BT, 210BU, 210BV, 210BW, 210BX, 210BY, 210BZ, 210CA, 210CB, 210CC, 210CD, 210CE, 210CF, 210CG, 210CH, 210CI, 210CJ, 210CK, 210CL, 210CM, 210CN, 210CO, 210CP, 210CQ, 210CR, 210CS, 210CT, 210CU, 210CV, 210CW, 210CX, 210CY, 210CZ, 210DA, 210DB, 210DC, 210DD, 210DE, 210DF, 210DG, 210DH, 210DI, 210DJ, 210DK, 210DL, 210DM, 210DN, 210DO, 210DP, 210DQ, 210DR, 210DS, 210DT, 210DU, 210DV, 210DW, 210DX, 210DY, 210DZ, 210EA, 210EB, 210EC, 210ED, 210EE, 210EF, 210EG, 210EH, 210EI, 210EJ, 210EK, 210EL, 210EM, 210EN, 210EO, 210EP, 210EQ, 210ER, 210ES, 210ET, 210EU, 210EV, 210EW, 210EX, 210EY, 210EZ, 210FA, 210FB, 210FC, 210FD, 210FE, 210FF, 210FG, 210FH, 210FI, 210FJ, 210FK, 210FL, 210FM, 210FN, 210FO, 210FP, 210FQ, 210FR, 210FS, 210FT, 210FU, 210FV, 210FW, 210FX, 210FY, 210FZ, 210GA, 210GB, 210GC, 210GD, 210GE, 210GF, 210GG, 210GH, 210GI, 210GJ, 210GK, 210GL, 210GM, 210GN, 210GO, 210GP, 210GQ, 210GR, 210GS, 210GT, 210GU, 210GV, 210GW, 210GX, 210GY, 210GZ, 210HA, 210HB, 210HC, 210HD, 210HE, 210HF, 210HG, 210HH, 210HI, 210HJ, 210HK, 210HL, 210HM, 210HN, 210HO, 210HP, 210HQ, 210HR, 210HS, 210HT, 210HU, 210HV, 210HW, 210HX, 210HY, 210HZ, 210IA, 210IB, 210IC, 210ID, 210IE, 210IF, 210IG, 210IH, 210II, 210IJ, 210IK, 210IL, 210IM, 210IN, 210IO, 210IP, 210IQ, 210IR, 210IS, 210IT, 210IU, 210IV, 210IW, 210IX, 210IY, 210IZ, 210JA, 210JB, 210JC, 210JD, 210JE, 210JF, 210JG, 210JH, 210JI, 210JJ, 210JK, 210JL, 210JM, 210JN, 210JO, 210JP, 210JQ, 210JR, 210JS, 210JT, 210JU, 210JV, 210JW, 210JX, 210JY, 210JZ, 210KA, 210KB, 210KC, 210KD, 210KE, 210KF, 210KG, 210KH, 210KI, 210KJ, 210KK, 210KL, 210KM, 210KN, 210KO, 210KP, 210KQ, 210KR, 210KS, 210KT, 210KU, 210KV, 210KW, 210KX, 210KY, 210KZ, 210LA, 210LB, 210LC, 210LD, 210LE, 210LF, 210LG, 210LH, 210LI, 210LJ, 210LK, 210LL, 210LM, 210LN, 210LO, 210LP, 210LQ, 210LR, 210LS, 210LT, 210LU, 210LV, 210LW, 210LX, 210LY, 210LZ, 210MA, 210MB, 210MC, 210MD, 210ME, 210MF, 210MG, 210MH, 210MI, 210MJ, 210MK, 210ML, 210MN, 210MO, 210MP, 210MQ, 210MR, 210MS, 210MT, 210MU, 210MV, 210MW, 210MX, 210MY, 210MZ, 210NA, 210NB, 210NC, 210ND, 210NE, 210NF, 210NG, 210NH, 210NI, 210NJ, 210NK, 210NL, 210NM, 210NO, 210NP, 210NQ, 210NR, 210NS, 210NT, 210NU, 210NV, 210NW, 210NX, 210NY, 210NZ, 210OA, 210OB, 210OC, 210OD, 210OE, 210OF, 210OG, 210OH, 210OI, 210OJ, 210OK, 210OL, 210OM, 210ON, 210OO, 210OP, 210OQ, 210OR, 210OS, 210OT, 210OU, 210OV, 210OW, 210OX, 210OY, 210OZ, 210PA, 210PB, 210PC, 210PD, 210PE, 210PF, 210PG, 210PH, 210PI, 210PJ, 210PK, 210PL, 210PM, 210PN, 210PO, 210PP, 210PQ, 210PR, 210PS, 210PT, 210PU, 210PV, 210PW, 210PX, 210PY, 210PZ, 210QA, 210QB, 210QC, 210QD, 210QE, 210QF, 210QG, 210QH, 210QI, 210QJ, 210QK, 210QL, 210QM, 210QN, 210QO, 210QP, 210QQ, 210QR, 210QS, 210QT, 210QU, 210QV, 210QW, 210QX, 210QY, 210QZ, 210RA, 210RB, 210RC, 210RD, 210RE, 210RF, 210RG, 210RH, 210RI, 210RJ, 210RK, 210RL, 210RM, 210RN, 210RO, 210RP, 210RQ, 210RR, 210RS, 210RT, 210RU, 210RV, 210RW, 210RX, 210RY, 210RZ, 210SA, 210SB, 210SC, 210SD, 210SE, 210SF, 210SG, 210SH, 210SI, 210SJ, 210SK, 210SL, 210SM, 210SN, 210SO, 210SP, 210SQ, 210SR, 210SS, 210ST, 210SU, 210SV, 210SW, 210SX, 210SY, 210SZ, 210TA, 210TB, 210TC, 210TD, 210TE, 210TF, 210TG, 210TH, 210TI, 210TJ, 210TK, 210TL, 210TM, 210TN, 210TO, 210TP, 210TQ, 210TR, 210TS, 210TT, 210TU, 210TV, 210TW, 210TX, 210TY, 210TZ, 210UA, 210UB, 210UC, 210UD, 210UE, 210UF, 210UG, 210UH, 210UI, 210UJ, 210UK, 210UL, 210UM, 210UN, 210UO, 210UP, 210UQ, 210UR, 210US, 210UT, 210UU, 210UV, 210UW, 210UX, 210UY, 210UZ, 210VA, 210VB, 210VC, 210VD, 210VE, 210VF, 210VG, 210VH, 210VI, 210VJ, 210VK, 210VL, 210VM, 210VN, 210VO, 210VP, 210VQ, 210VR, 210VS, 210VT, 210VU, 210VV, 210VW, 210VX, 210VY, 210VZ, 210WA, 210WB, 210WC, 210WD, 210WE, 210WF, 210WG, 210WH, 210WI, 210WJ, 210WK, 210WL, 210WM, 210WN, 210WO, 210WP, 210WQ, 210WR, 210WS, 210WT, 210WU, 210WV, 210WW, 210WX, 210WY, 210WZ, 210XA, 210XB, 210XC, 210XD, 210XE, 210XF, 210XG, 210XH, 210XI, 210XJ, 210XK, 210XL, 210XM, 210XN, 210XO, 210XP, 210XQ, 210XR, 210XS, 210XT, 210XU, 210XV, 210XW, 210XX, 210XY, 210XZ, 210YA, 210YB, 210YC, 210YD, 210YE, 210YF, 210YG, 210YH, 210YI, 210YJ, 210YK, 210YL, 210YM, 210YN, 210YO, 210YP, 210YQ, 210YR, 210YS, 210YT, 210YU, 210YV, 210YW, 210YX, 210YY, 210YZ, 210ZA, 210ZB, 210ZC, 210ZD, 210ZE, 210ZF, 210ZG, 210ZH, 210ZI, 210ZJ, 210ZK, 210ZL, 210ZM, 210ZN, 210ZO, 210ZP, 210ZQ, 210ZR, 210ZS, 210ZT, 210ZU, 210ZV, 210ZW, 210ZX, 210ZY, 210ZZ	CC284022 0601-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17						
			CC284022 0601-XX5								
5.	Textron Aviation Inc. (formerly Cessna)	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3, 14 CFR 23	CC-TR-2840-031	N/C	CC2840 00 03	N/C	CC284022 0602-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17
									CC284022 0602-XX2		

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02511SE

FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION REQUIREMENTS & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	STC MASTER DRAWING LIST	CIES SENDER PART NUMBERS APPROVED FOR INSTALLATION	APPROVED SENDER AND INSTRUMENT COMBINATIONS	AML REV DATE
6.	Textron Aviation Inc. (formerly Cessna)	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0602-XX1 CC284022 0602-XX2 CC284022 0602-XX5 CC284022 0602-XX6 CC284022 0608-XX1 (Tip)	1-11, 14, 15, 18, 19, 23, 24	11/7/17
7.	Textron Aviation Inc. (formerly Cessna)	177, 177A, 177B	A13CE	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0601-XX1 CC284022 0601-XX5	1-11, 14, 15, 18, 19, 23, 24	11/7/17
8.	Textron Aviation Inc. (formerly Cessna)	207, 207A, T207, T207A	A16CE	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0602-XX1 CC284022 0602-XX2 CC284022 0602-XX5 CC284022 0602-XX6 CC284022 0608-XX1 (Tip)	1-11, 14, 15, 18, 19, 23, 24	11/7/17
9.	Textron Aviation Inc. (formerly Cessna)	177RG	A20CE	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0601-XX1 CC284022 0601-XX5	1-11, 14, 15, 18, 19, 23, 24	11/7/17
10.	Cessna Aircraft Company	Cessna F177RG	A26EU	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0601-XX1 CC284022 0601-XX5	1-11, 14, 15, 18, 19, 23, 24	11/7/17
11.	Cessna Aircraft Company	Cessna F182P, Cessna F182Q, Cessna FR182	A42EU	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0602-XX1 CC284022 0602-XX2 CC284022 0602-XX5 CC284022 0602-XX6 CC284022 0608-XX1 (Tip)	1-11, 14, 15, 18, 19, 23, 24	11/7/17
12.	Textron Aviation Inc. (formerly Cessna)	206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206E, U206D, U206F, U206G, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H	A4CE	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0602-XX1 CC284022 0602-XX2 CC284022 0602-XX5 CC284022 0602-XX6 CC284022 0608-XX1 (Tip)	1-11, 14, 15, 18, 19, 20, 23, 24	11/7/17

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02511SE

FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

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13.	Cessna Aircraft Company	Cessna F172D, Cessna F172E, Cessna F172F, Cessna F172G, Cessna F172H, Cessna F172K, Cessna F172L, Cessna F172M	A4EU	CAR 3, CAR 10, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0603-XX1 CC284022 0603-XX2 CC284022 0603-XX5 CC284033 0603-XX6	1-11, 14, 15, 18, 19, 23, 24	11/7/17
14.	Textron Aviation Inc. (formerly Cessna)	170, 170A, 170B	A-799	CAR 3	CC-TR-2840-031	CC2840 00 03	CC284022 0603-XX1 CC284022 0603-XX2 CC284022 0603-XX5 CC284033 0603-XX6	1-11, 14, 15, 18, 19, 23, 24	11/7/17
15.	Textron Aviation Inc. (formerly Cessna)	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150 A150K, A150L, A150M, 152, A152	3A19	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0616-XX1 CC284022 0617-XX1	3, 4, 7, 8, 11, 23, 24	11/7/17
16.	Cirrus Design Corp.	SR20, SR22, SR22T	A00009CH	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0001-XX1 CC284022 0002-XX1 CC284022 0004-XX1 CC284022 0005-XX1 CC284022 0006-XX1 CC284022 0007-XX1 CC284022 0007-XX2 CC284022 0008-XX1 CC284022 0008-XX2 CC284099 0001 (Installation) CC284099 0002 (Installation) CC284099 0003 (Installation) CC284099 0004 (Installation)	3, 4, 7, 8, 11, 18, 19, 23, 24	11/7/17
17.	Cirrus Design Corp.	SR22, SR22T (w/TKS Sender)	A00009CH	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0003-XX1 CC284022 0003-XX2	3, 4, 7, 8, 11, 18, 19, 23, 24	11/7/17

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA025115E

FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

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18.	Textron Aviation Inc. (formerly Beechcraft)	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, G36, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2201-XX1 CC284022 2201-XX5 CC284022 2202-XX1 CC284022 2202-XX2 CC284022 2203-XX1 CC284022 2203-XX5 CC284022 2215-XX1 CC284022 2215-XX2 CC284022 2215-XX5 CC284022 2215-XX6 CC284022 2216-XX1 CC284022 2216-XX2 CC284022 2217-XX1 CC284022 2217-XX5 CC284022 2218-XX1 CC284022 2219-XX1 (Tip) CC284022 2219-XX5 (Tip)	1-11, 14, 15, 18, 19, 23, 24	11/7/17
19.	Textron Aviation Inc. (formerly Beechcraft)	B95A, D95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42), 95-C55, 95-C55A, G58, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A, 95, B95	3A16	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2204-XX1 CC284022 2204-XX5 CC284022 2205-XX1 CC284022 2206-XX1 CC284022 2207-XX1 CC284022 2208-XX1 CC284022 2203-XX1 CC284022 2203-XX5 CC284022 2209-XX1 CC284022 2209-XX5 CC284022 2210-XX1 CC284022 2211-XX1 CC284022 2211-XX5 CC284022 2212-XX1 CC284022 2212-XX5 CC284022 2213-XX1 CC284022 2214-XX1 CC284022 2219-XX1 (Tip) CC284022 2219-XX5 (Tip)	1-11, 14, 15, 18, 19, 21, 22, 23, 24	11/7/17

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20.	Beechcraft Corporation	58P, 58PA, 58TC, 58TCA	A23CE	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2204-XX1 CC284022 2204-XX5 CC284022 2205-XX1 CC284022 2206-XX1 CC284022 2207-XX1 CC284022 2208-XX1	1-11, 14, 15, 18, 19, 21, 22, 23, 24	11/7/17
21.	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-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-180, MX-7-180, MX-7-180, MT-7-235, M-8-235, MX-7-160, MX-7-160, MX-7-180A, MX-7-180A, MX-7-180B, M-7-235B, M-7-235A, M-7-235C, MX-7-180C, M-7-260, MT-7-260, M-7-260C, MX-7-160C, MX-7-180AC, M-9-235	3A23	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2401-XX1	3, 4, 7, 8, 11, 18, 19, 23, 24	11/7/17
22.	Mooney Intl. Corp.	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S, M20TN	2A3	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0705-XX1 CC284022 0705-XX2 CC284022 0706-XX1 CC284022 0706-XX2 CC284022 0706-XX5 CC284022 0706-XX6 CC284022 0707-XX1 CC284022 0707-XX2 CC284022 0708-XX1 CC284022 0709-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17

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FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

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23.	Pilatus Aircraft Ltd.	PC-6	7A15	CAR 10, CAR 3	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 2301-XX5	1, 2, 5, 6, 9, 10, 14, 15, 23, 24	11/7/17
24.	Piper Aircraft, Inc.	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-23-250 (Navy U0-1), PA-E23-250	1A10	CAR 3	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0808-XX1 CC284022 0809-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17
25.	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	CAR 3	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0816-XX1 CC284022 0816-XX5	1-11, 14, 15, 18, 19, 23, 24	11/7/17
26.	Piper Aircraft, Inc.	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0812-XX1 CC284022 0813-XX1	3, 4, 7, 8, 11, 18, 19, 23, 24	11/7/17
27.	Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28-151, PA-28-161, PA-28-181, PA-28R-201, PA-28R-201T, PA-28-236, PA-28RT-201, PA-28RT-201T, PA-28-201T	2A13	CAR 3, 14 CFR 23	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0810-XX1 CC284022 0810-XX2 CC284022 0810-XX5 CC284022 0811-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17
28.	Piper Aircraft, Inc.	PA-30, PA-39, PA-40	A1EA	CAR 3, 14 CFR 23	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0812-XX1 CC284022 0813-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17
29.	Piper Aircraft, Inc.	PA-31, PA-31-300, PA-31- 325, PA-31-350,	A20SO	CAR 3, 14 CFR 23	CC-TR-2840-031 N/C	CC2840 00 03	CC284022 0804-XX1 CC284022 0805-XX1 CC284022 0806-XX1 CC284022 0807-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17

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FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION REQUIREMENTS & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	STC MASTER DRAWING LIST	CIES SENDER PART NUMBERS APPROVED FOR INSTALLATION	APPROVED SENDER AND INSTRUMENT COMBINATIONS	AML REV DATE
30.	Piper Aircraft, Inc.	PA-32-301XTC, PA-32-301FT, PA-32S-300, PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T, PA-32-301, PA-32-301T	A3SO	CAR 3, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0810-XX1 CC284022 0810-XX2 CC284022 0810-XX5 CC284022 0811-XX1	1-11, 14, 15, 18, 19, 23, 24	11/7/17
31.	Piper Aircraft, Inc.	PA-34-200, PA-34-200T, PA-34-220T	A7SO	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0810-XX1 CC284022 0810-XX2 CC284022 0810-XX5 CC284022 0811-XX1	1-11, 14, 15, 18, 19, 21, 22, 23, 24	11/7/17
32.	Piper Aircraft, Inc.	PA-44-180, PA-44-180T	A19SO	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0814-XX1 CC284022 0815-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17
33.	Vulcanair S.p.A	P.68, P.68 "Observer 2", P.68B, P.68C, P.68 "Observer", P.68TC "Observer", P.68C-TC	A31EU	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0401-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17
34.	Fairchild Personal Planes	24 C8C, 24 C8CS	A-535	Aero Bulletin 7-A	CC-TR-2840-031	CC2840 00 03	CC284022 2101-XX5	1, 2, 5, 6, 9, 10, 14, 15, 23, 24	11/7/17
35.	GA 8 Airvan (Pty) Ltd (formerly Gippstand)	GA8, GA8-TC320	A00011LA	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 0301-XX1 CC284022 0302-XX5	1-11, 14, 15, 18, 19, 23, 24	11/7/17
36.	B-N Group Ltd.	BN2A MK III, BN2A MK III-2, BN2A MK III-3	A29EU	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2001-XX1 CC284022 2002-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17
37.	American Champion Aircraft Corp.	8KCAB, 8GCBC	A21CE	14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2501-XX5	1, 2, 5, 6, 9, 10, 14, 15, 23, 24	11/7/17

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FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION REQUIREMENTS & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	STC MASTER DRAWING LIST	CIES SENDER PART NUMBERS APPROVED FOR INSTALLATION	APPROVED SENDER AND INSTRUMENT COMBINATIONS	AML REV DATE
38.	American Champion Aircraft Corp.	7ECA, 7GCAA, 7KCAB, 7GCBC	A-759	CAR 4a, 14 CFR 23	CC-TR-2840-031	CC2840 00 03	CC284022 2501-XX5	1, 2, 5, 6, 9, 10, 14, 15, 23, 24	11/7/17
39.	Beechcraft Corp.	45 (YT-34), A45 (T-34A, B-45), D45 (T-34B)	5A3	CAR 3	CC-TR-2840-031	CC2840 00 03	CC284022 2203-XX1	3, 4, 7, 8, 11, 18, 19, 23, 24	11/7/17
40.	Textron Aviation Inc. (formerly Beechcraft)	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	CAR 3	CC-TR-2840-031	CC2840 00 03	CC284022 2201-XX1 CC284022 2201-XX5 CC284022 2202-XX1 CC284022 2202-XX2 CC284022 2203-XX1 CC284022 2203-XX5 CC284022 2215-XX1 CC284022 2215-XX2 CC284022 2215-XX5 CC284022 2215-XX6 CC284022 2216-XX1 CC284022 2216-XX2 CC284022 2217-XX1 CC284022 2217-XX5 CC284022 2218-XX1 CC284022 2219-XX1 (Tip) CC284022 2219-XX5 (Tip)	1-11, 14, 15, 18, 19, 23, 24	11/7/17

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FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TC NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION REQUIREMENTS & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS	STC MASTER DRAWING LIST	CIES SENDER PART NUMBERS APPROVED FOR INSTALLATION	APPROVED SENDER AND INSTRUMENT COMBINATIONS	AML REV DATE
41.	B-N Group Ltd.	BN-2, BN-2A, BN-2A-6, BN-2A-8, BN-2A-2, BN-2A-9, BN-2A-3, BN-2A-20 BN-2T-4R, BN-2A-21, BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T	A17EU	14 CFR 23	CC-TR-2840-031 N/C	CC2840 00 03 N/C	CC284022 2001-XX1 CC284022 2002-XX1	3, 4, 7, 8, 11, 18, 19, 22, 23, 24	11/7/17

* Or later FAA Accepted ICA and FAA Approved Airworthiness Limitations Revision

** Or later FAA Approved Revision

Note: CIES part numbering system for STC AML is CC284022 – (ZZ ZZ) – (XX Y), where (ZZ ZZ) designates the Aircraft manufacturer, Aircraft Model, and Physical Location, (XX) designates Minor change designation, and (Y) designates sender Output Signal Type.

FAA Approved:



FAA Manager, Seattle Aircraft Certification Office

AMENDED: November 7, 2017

REISSUED:

FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA02511SE
FOR

CIES INC. CC284022 SERIES TSO C55a FUEL QUANTITY SENDERS

ISSUE DATE: March 14, 2017

Item	Cockpit Display Manufacturer	Cockpit Display Model	Data Converter (LRU ¹)	Fuel Sender Output Capability	Instrument Input Capability	CiES Fuel Sender Part Numbers
1	JP Instruments	EDM 900	N/A	Voltage 0-5 VDC	0-4.7 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
2	JP Instruments	EDM 930	N/A	Voltage 0-5 VDC	0-4.7 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
3	JP Instruments	EDM 900	N/A	Digital Frequency 64Hz-10kHz	0-100 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
4	JP Instruments	EDM 930	N/A	Digital Frequency 64Hz-10kHz	0-100 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
5	Electronics International	MVP-50	EDC-33P	Voltage 0-5 VDC	0-18 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
6	Electronics International	CGR-30P	EDC-33P	Voltage 0-5 VDC	0-18 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
7	Electronics International	MVP-50	EDC-33P	Digital Frequency 64Hz-10kHz	0-6 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
8	Electronics International	CGR-30P	EDC-33P	Digital Frequency 64Hz-10kHz	0-6 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
9	Ultra FEI	Auracle CRM2120	N/A	Voltage 0-5 VDC	0-5 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
10	Aerospace Logic	FL25X	N/A	Voltage 0-5 VDC	0-5 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
11	Aerospace Logic	FL20XD	N/A	Digital Frequency 64Hz-10kHz	10-300 Hz	CC284022-(ZZZZ)- (XX1) or -(XX2)
12	Aerospace Logic	FL21X	N/A	Voltage 0-1 VDC	0-1 VDC	CC284022-(ZZZZ)- (XX7) or -(XX8)
13	Aerospace Logic	FL20X	N/A	Voltage 0-1 VDC	0-1 VDC	CC284022-(ZZZZ)- (XX7) or -(XX8)
14	Garmin	G1000	GEA 71	Voltage 0-5 VDC	0-5 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
15	Garmin	G950	GEA 71	Voltage 0-5 VDC	0-5 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
16	Garmin	G1000	GEA 71	Voltage 0-1 VDC	0-1 VDC	CC284022-(ZZZZ)- (XX7) or -(XX8)
17	Garmin	G950	GEA 71	Voltage 0-1 VDC	0-1 VDC	CC284022-(ZZZZ)- (XX7) or -(XX8)
18	Garmin	G1000	GEA 71	Digital Frequency 64Hz-10kHz	0-100 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
19	Garmin	G950	GEA 71	Digital Frequency 64Hz-10kHz	0-100 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
20	Rochester Gauges	FQ-40XX Series	N/A	Voltage 0-1 VDC	0-1 VDC	CC284022-(ZZZZ)- (XX7) or -(XX8)
21	JP Instruments	EDM 960	EDM 950	Voltage 0-5 VDC	0-4.7 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
22	JP Instruments	EDM 960	EDM 950	Digital Frequency 64Hz-10kHz	0-100 kHz	CC284022-(ZZZZ)- (XX1) or -(XX2)
23	Garmin	G500/G600 Txi	GEA 110	Voltage 0-5 VDC	0-5 VDC	CC284022-(ZZZZ)- (XX5) or -(XX6)
24	Garmin	G500/G600 Txi	GEA 110	Digital Frequency 64Hz-10kHz	0-30,000 Hz	CC284022-(ZZZZ)- (XX1) or -(XX2)

¹LRU – line replaceable unit receives or converts the fuel sender output signal to provide the input signal to the cockpit display instrument.