TAC Report Nr. 324-1.1

TAC Number	324	**TAC Date**	17-OCT-2019	**TAC Rev. date**	11-JUN-2020
Beacon Model Name	Artex ELT-345				
Additional Names	---				
Manufacturer	ACR Electronics Inc.				
Tx Frequencies	406.040 MHz				
In Production	in production			**Class**	2
Type	ELT (Automatic Fixed)			**Tested Life** (hours)	24
Battery	Primary battery: Ultralife, Lithium Manganese Dioxide (Li-MnO2), U10028-T1, 2 x "D"-size cells. .. External 14/28 VDC for 5-wire remote switch.				
	Battery Legend: Battery cell manufacturer, Cell chemistry, Cell model, No. of cells, Cell size.				
Protocols tested	U - User, UL - User-Location, SL - Standard Location, NL - National Location				
Self Test	yes	**Self Test RF**	yes	**Self Test RF** (Short/Long)	short
Self Test Format Flag	Corresponds to nominal flag			**Self Test Consistent with 15 Hex ID**	yes
Homer Freq	121.5 MHz			**Homer Duty Cycle**	96%
Homer Power	50-100mW				
Strobe Light	no	**Strobe Brightness**	---	**Strobe Duty Cycle**	---
Nav Device	Ext	**Nav Device Model**	Electrical interface: RS 232; Data Protocol: AB (aviation), GPGLL, GPRMC & GPGGA; Physical interface: DB-15 (D-type connector)		
Separable Antenna	no	**Antenna Model**	External fixed antennas: ACR P/N A3-06-2892-1 (black whip antenna), ACR P/N A3-06-2892-2 (white whip antenna), ACR P/N 110-773 (whip antenna).		
Additional functions	2-wire remote switch P/N A3-06-2759 Rev. B; 5-wire remote switch P/N 345-6196 Rev. F1; External Buzzer P/N 452-6505 Rev.B; automatic activation via G-switch; 406-MHz transmitter automatically switches off after 24 hours of operation.				
General comments	(1) Beacon and antennas were tested in ELT(AF) configuration only, corresponding to external ELT antennas fixed to ground plane. (2) Demonstrated full compliance with C/S Standards: C/S T.001, Issue 3 - Rev.15 (October 2014), C/S T.007 Issue 4 - Rev.9 (October 2014). (3) Approved for message encoding with variants of User Protocol (Aviation, ELT with Serial Number, ELT with Aircraft Operator and Serial Number, ELT with Aircraft 24-bit Address), Standard Location Protocol variants (ELT with 24-bit Address, ELT with Aircraft Operator Designator, ELT with Serial Number), National Location Protocol for ELT, and User-Location Protocol variants (Aviation, ELT with Serial Number, ELT with Aircraft Operator and Serial Number, ELT with Aircraft 24-bit Address)				
TAC rev history	(1) 10-Aug-15: originally type approved with TAC 267; (2) 2-Nov-16: Replacement of power amplifier and firmware modification to address phase modulation stability; (3) 5-Apr-19: First additional TAC 317 issued; (4) 17-Oct-19: Second additional TAC 324 issued; (5) 11-Jun-20: Approval of additional antenna 110-773.				