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CONFORMITY CERTIFICATE

08/X29/1/6344564-1001-5-ENG, rev.2

ICAO, Annex 14, Volume I, 7th Edition
EASA CS-ADR-DSN, Issue 4, 8th December 2017
UNE-IEC/TS 61827, 1th Edition
FAA AC 150/5345-46E
AENA PPT 010-03/12
AENA PPT 011-03/12

CERTIFIES:

That, to request of the Company: Airsafe Airport Equipment Co., Ltd proceeds to the inspection, review and documental study technical equipment, recessed lights for airports runways model **APP-12, APS-12, THR-12, THW-12, END-12, TAE-12 and REL-12**, based on the reports of tests carried by the laboratory SQL – Shanghai Institute of Quality Inspection and Technical Research, as National Certification Body and to carry out testing within the IECEE CB Scheme for the Scope as listed in the relevant part of the IECEE Web Site at www.iecee.org :

<u>Reference</u>	<u>Application</u>
APP-12	12" for in-pavement approach centerline – cross bar (white)
APS-12	12" for in-pavement approach side-row (red)
THR-12	12" for in-pavement runway threshold
THW-12	12" for in-pavement runway threshold wing-bar
END-12	12' for in-pavement runway end
TAE-12	12" for in-pavement runway threshold/end
REL-12	12" for in-pavement runway edge

That all the foregoing, and in view of the results obtained, is considered that:
The inset lights model **APP-12, APS-12, THR-12, THW-12, END-12, TAE-12 and REL-12** above referenced, manufactured by Airsafe Airport Equipment Co.,Ltd., destined for aeronautical lighting applications, FULFIL SATISFACTORILY the demands and requirements of the standards and technical requisites of Aena referred in the present document, and specifically the specifications of the UNE-IEC/TS 61827:

Test	Inset lights	Result
	Type	It fulfils
<u>a. Dimensional test</u>	6.2	Satisfactory
<u>b. Test Environmental</u>		
High temperature	6.3.1.1	Satisfactory
Low temperature	6.3.1.2.1	Satisfactory
Thermal shock	6.3.2.1	Satisfactory
Corrosion (saline sprayed)	6.3.3.1	Satisfactory
<u>c. Test Structural</u>		
Static load	6.4.1.1	Satisfactory
Shear load	6.4.1.2	Satisfactory
Mechanical impact	6.4.1.3	Satisfactory
Hydraulic impact	6.4.1.4	Satisfactory
Vibration	6.4.1.5	Satisfactory
Watertightness	6.4.1.6.1	Satisfactory
Surface temperatura	6.4.1.7	Satisfactory

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This certificate cancels and replaces the certificate with number n°08/X29/1/6344564-1001-5-ENG, rev.1



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<u>d. Test Electrical</u> Dielectric rigidity Creepage and clearance Resistance of isolation Electrical shock	6.5.1 6.5.2 6.5.3 6.5.4	Satisfactory Satisfactory Satisfactory Satisfactory
<u>And. Functional test</u> Photometry Chromaticity	6.6.1.1 6.6.2	Satisfactory Satisfactory
<u>f. Endurance Test</u> Accelerated life Test of useful rated life of LED's (10 lights)	6.7.1.1 6.7.2	Satisfactory Satisfactory

As well as the requirements listed in ICAO Annex 14, Volume I, and EASA CS-ADR-DSN, Issue 4, detailed below:

Inset lights	ICAO		EASA		Result It fulfils
	Photometry test	Chromaticity test	Photometry test	Chromaticity test	
APP-12	Figure A2-1 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-5 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
APS-12	Figure A2-2 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-6 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
THR-12	Figure A2-3 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-7 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
THW-12	Figure A2-4 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-8 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
END-12	Figure A2-8 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-12 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
TAE-12	Figure A2-3 Figure A2-8 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-7 Figure U-12 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory
REL-12	Figure A2-9 Figure A2-10 -Appendix 2-	Figure A1-1a -Appendix 1-	Figure U-13 Figure U-14 -CS ADR-DSN.U.940-	Figure U-1A -CS ADR-DSN.U.930-	Satisfactory

And for the record for the appropriate purposes is issued and signed this Certification in Barcelona, to May 31 of 2018.

Inspector Bureau Veritas
Laura Arcas