

## **European Union**

Finnish Transport and Communications Agency (Traficom)

## FLIGHT SIMULATION TRAINING DEVICE (FSTD) QUALIFICATION CERTIFICATE FI-1A-016

Pursuant to Commission Regulation (EU) No 1178/2011 and subject to the conditions specified below, the Finnish Transport and Communications Agency (Traficom) hereby certifies that

FSTD level Full Flight Simulator, Level D

Simulated A/C type Airbus A320-200

FSTD manufacturer TRU Simulation + Training Inc.

Serial number SN-00002618

Located at Finnair Plc

Pyhtäänkorventie 11-13

01530 Vantaa FINLAND

has satisfied the qualification requirements prescribed in Part-ORA, subject to the conditions of the attached FSTD specification.

This qualification certificate shall remain valid subject to the FSTD and other holder of the qualification certificate remaining in compliance with the applicable requirements of Part-ORA, unless it has been surrendered, superseded, suspended or revoked.

Date of issue 19 Dec 2019

Signature on behalf of Traficom

Clarification of the signature Olli Hänninen

Title Senior Inspector, Flight Simulators



## FLIGHT SIMULATION TRAINING DEVICE (FSTD) QUALIFICATION CERTIFICATE FI-1A-016, FSTD SPECIFICATIONS, Page 1 of 2

B) FSTD qualification level Full Flight Simulator, Level D

C) Primary reference document CS-FSTD(A) initial issue

D) Visual system Rockwell Collins EP-8100 image generator, FoV 200°x40°,

collimated, three channels, day/twilight/night,

LCoS projectors

E) Motion system 6 degrees of freedom, electric, 60 inches,

Moog Electric MB-E-6DOF/60/14000KG

F) Engine fit

• CFM International CFM 56-5B4, FADEC 5BS4F3

• International Aero Engines IAE V2527-A5, FADEC

SCN21/AA

G) Instrument fit • Instrument fit is Airbus STD 1.9.1

EIS2 std S11FWC std H2-F7

• FMGC for CFM: Honeywell std H2BPC13, Rel. 1A

• FMGC for IAE: Honeywell std H2BPI12, Rel. 1A

H) ACAS fit TCAS II ver. 7.1 with auto flight TCAS mode

I) Windshear warning, Windshear warning,

predictive windshear system (PWS)

J) Additional capabilities RNP APCH to LNAV and LNAV/VNAV minima (APV/Baro-

VNAV)

GLS (i.e. GBAS) approaches

RNP AR approach with RNP 0.1 including RF legs

ADS-B

Back-up speed scale (BUSS)

Runway Overrun Prevention Warning (ROW), Runway

Overrun Protection (ROPS)

Smoke generation system

ATIS

K) Restrictions or limitations No

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EASA Form 145 Issue 1

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## FLIGHT SIMULATION TRAINING DEVICE (FSTD) QUALIFICATION CERTIFICATE FI-1A-016, FSTD SPECIFICATIONS, Page 2 of 2

L) Guidance information for training, testing and checking considerations

CAT I	RVR 550 m	DH 200 ft	Yes
CAT II	RVR 300 m	DH 100 ft	Yes
CAT III (lowest minimum)	RVR 75 m	no DH	Yes
LVTO	RVR 125 m		Yes
Recency			Yes
IFR-training / IFR-checks			Yes / Yes
Type rating			Yes
Proficiency checks			Yes
Autocoupled approach			Yes
Autoland / Roll out guidance			Yes (fail operational) / Yes
ACAS I / II			N/A / Yes (TCAS II ver. 7.1 with aut flight TCAS mode)
Windshear warning system / predictive windshear			Yes / Yes
WX-radar			Yes
HUD / HUGS			N/A / N/A
FANS			N/A
GPWS / EGPWS			Yes / Yes
ETOPS capability			Yes
GPS			Yes (2 installed)
Other			See item J above

Date of issue

19 Dec 2019

Signature on behalf of Traficom

Clarification of the signature

Title

Olli Hänninen

Senior Inspector, Flight Simulators