

SIMULATOR SAFETY BRIEFING

COPTERSAFETY AW139 FFS HELSINKI AIRPORT FINLAND

REV 4 - NOVEMBER 7, 2017

SIMULATOR ACCESS

Simulator is equipped with safety interlocks which prevent unsafe activation of the motion system

The following conditions must be fulfilled until the motion system can be activated:

- Access door must be closed
- Access ramp gate must be closed
- Access ramp must be free of obstacles (pressure sensed)

Motion system will disengage automatically if any of these conditions are violated during training





SIMULATOR ACCESS

Red warning light by the drawbridge will flash when the drawbridge is in motion

• Drawbridge can also be operated manually







COCKPIT ENTERANCE

- Both seats must be in AFT POSITION before crew can enter into the cockpit
- > Cockpit has to be entered across the pedestal
- > Installed hand rails can be used to ease the access
- > Do not lean or step on the pedestal
- Always use pedestal cover when entering and exiting the cockpit
- Do not remove seat belts until pedestal cover is in place
 - Seat buckle can damage the pedestal

For safety reasons seat belts must be worn by all occupants whenever motion system is active



Co-Pilot seat aft position



Pilot seat aft position



COCKPIT SEAT ADJUSTMENT

- > Cockpit seat adjustment has been modified in May 2016
- > New installation is based on real a/c rails
 - Co-pilot's electric height adjustment has been removed
- > Position and height are adjusted as in the real a/c
 - Use right hand lever (1) for position adjustment
 - Use left hand lever (2) for height adjustment
- > Place seat buckle on the seat when finished
 - This prevents potential jamming when the next customer moves the seat







Co-Pilot

Pilot



MOTION SYSTEM

- Red warning light between motion actuators will illuminate when the motion system is active
- > Danger area has been marked by a yellow line
- > Danger area is also protected by a laser fence
 - Motion system emergency shutdown will occur automatically if somebody enters in the danger area

Access to floor level is strictly prohibited









EMERGENCY SHUTDOWN SWITCHES

Emergency motion & C/L OFF

- Disengages motion and control loading systems
- Motion system emergency shutdown will activate (gravity)
- Drawbridge will lower automatically
- › Locations:
 - AFT pedestal
 - IOS station





EMERGENCY SHUTDOWN SWITCHES

Emergency power OFF

- > Complete power shutdown including the computer system
- > Emergency lighting will activate
- Motion system emergency shutdown will activate (gravity)
- Drawbridge will lower automatically

Location:

• IOS station





MAINTENANCE CALL

Simulator maintenance can be called by using either

- Maintenance call pushbutton behind the IOS station
- Maintenance phone on he RH side of the IOS









FLASHLIGHTS

Cockpit flashlights

Location:

• Between windshield and cockpit access door, L/R

Non simulated area flashlights

Location:

- Instructor seat RHS
- Observer seat RHS

Emergency flashlight

Location:

• Left of simulator drawbridge











FIRE EXTINGUISHER AND FIRST AID KIT

Fire extinguisher

CO2 operated

Locations:

- Next to IOS station
- Simulator mezzanine

First aid kit

Contains also relief for simulator sickness
 Location:

• Simulator hallway

Motion sickness bags

Location:

• Cockpit L/R side consoles







SMOKE AND FIRE DETECTION

- > There are two independent fire and smoke detection systems
 - Internal (simulator)
 - External (facility)
- Simulator's internal fire and smoke detection system only detects incidents in the simulator complex (simulator and computer room)
- Facility's external fire and smoke detection system monitors events in the facility (simulator halls, offices, hallways etc.)



INTERNAL FIRE AND SMOKE DETECTION

- Smoke detector (1) is located above IOS station in non-simulated area
- Detects the smoke inside the simulator
 If the smoke is detected:
 - All power will be disconnected from the simulator
 - Emergency lighting (2) on the RH side will activate
 - Motion system will disengage in emergency mode (gravity)

Crew must evacuate the simulator immediately

NOTE

There are no aural or visual warnings There is no automated fire suppression system.

Smoke detector will deactivate if smoke generator is used during training. Reactivates automatically once smoke has cleared.





EXTERNAL FIRE AND SMOKE DETECTION

- > External fire and smoke detection is connected to the facility automation system
- > Simulator hall is equipped with a combined smoke and heat detector
 - > If smoke generator is used in the training the system will revert automatically to heat detection only
- > If the smoke or fire is detected in the facility
 - > Automatic fire alarm is sent to the local fire station
 - > Red warning light behind the IOS station will flash
 - > Aural fire alarm shall activate in the facility
 - > Crew need to evacuate the simulator immediately

NOTE

- Facility aural fire alarm may not always be audible in the simulator
- Facility fire alarm is not connected to the I/O of the simulator. Therefore, it does not disengage the motion system automatically.







MANUAL FIRE ALARM

- Facility fire alarm can also be activated manually
- Location: Simulator hallway





IN CASE OF EMERGENCY

- > Evacuation must be directed and controlled by the instructor
- > If no immediate danger exists the instructor should contact simulator maintenance
- In case of immediate danger the instructor shall coordinate the evacuation of the simulator and will advise the crew when to leave their seats and the simulator
- In case of fire or other danger requiring evacuation of the building the students will follow the instructions from their instructor or CS personnel if available
- > Emergency Exit Maps can be found in the facility and in the simulator.
- > Study these maps carefully and familiarize yourself with the nearest emergency exits
- In case of building evacuation everyone should gather at the meeting point located in the sand field (parking lot) on the right hand side of the facility



EMERGENCY ESCAPE DOOR

- If the simulator access door is jammed the emergency escape door must be used
- Emergency escape door has been marked with black-yellow tape and red placard
- > Kick the door open and exit the simulator





ESCAPE LADDERS

- If the drawbridge does not lower escape ladders must be used Location:
 - LH side when exiting the simulator
- > Follow the next steps:
 - Remove ladder compartment door (1)
 - Place the ladders over the safety rail (2)
 - Exit the simulator climb sideways (3)









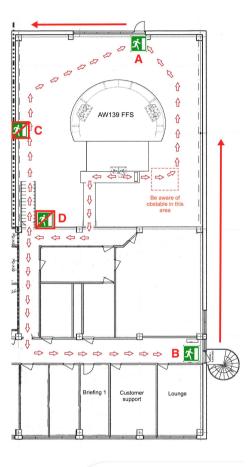
BUILDING EVACUATION

- > Evacuation routes have been shown in the image
- Be aware of the obstacle (a/c hose) when evacuating using escape ladders
- > Directions to the meeting point have been marked in the image

Note:

Do not use emergency exits C or D if exits A or B are accessible. Exits C and D do not provide direct access outside.







BUILDING EVACUATION

Facility meeting point has been shown below









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