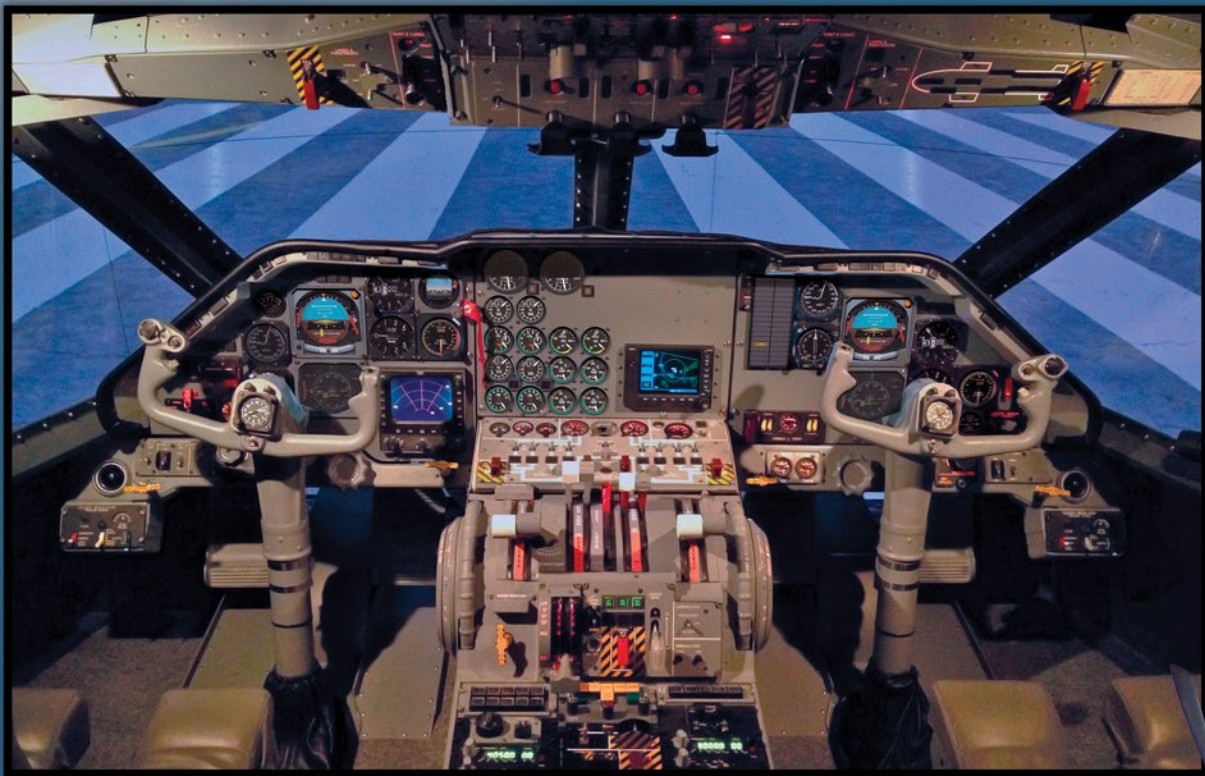


AERONAUTICAL SYSTEMS ENGINEERING
SIMULATORS & ENGINEERING SOLUTIONS THAT
SOAR

Flight Training Device



G222

Introduction

The G222 aircraft is a twin turboprop transport that was developed in Italy and has recently found a user in the Afghan National Air Force. ASE developed a suite of simulators for the Afghans under a contract from the US Army simulator procurement office. The simulator was built using the FAA Part 60 Level 5 requirements as a guide and baseline performance spec, with added features. The finished device far exceeds the requirement of a Level 5 FTD. It has all of the capabilities of top class Full Flight Simulator, but without a motion system.

Equipment and Furnishing

The cockpit and furnishings are a combination of refurbished aircraft parts and ASE manufactured replicas. The center console consists of real or full-scale replica instruments and radios. Many of the control panels and radio heads were created from scratch using photographs of the aircraft equipment, but without any access to the aircraft.

Flight Deck and Instrumentation

Though not required on devices of this level, ASE installed its own Level D-quality control loading system with actual aircraft controls in order to give the students the highest fidelity flying experience possible for maximum transfer of training. The main instrument panel replicates all components present in the ANAAC G222 aircraft including a weather radar with correlated database.

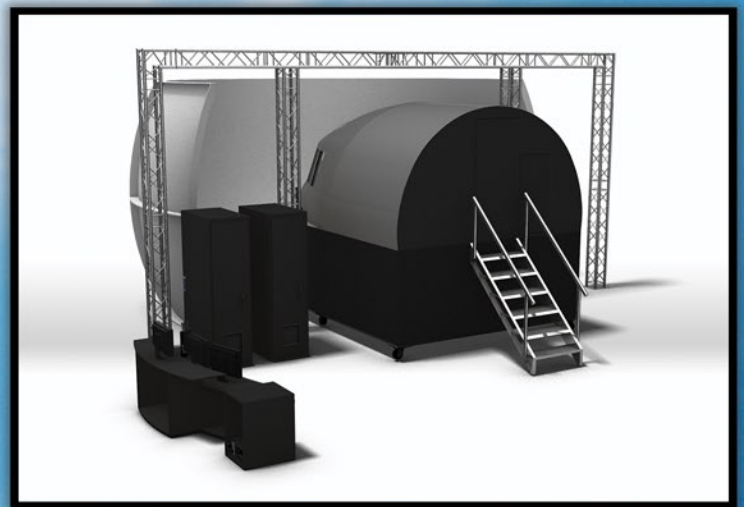
Software

The flight dynamics software was developed from a fully qualified model of a geometrically similar aircraft, as no flight test data was available. It was declared to be fully capable of all training tasks by a selection of active USAF pilots.

Visual System

The projection screen is a spherical section that provides 220° horizontal and 60° vertical field of view. Five HD LED projectors present the images from the Power Vision 2 Image Generator. Computer generated forces are provided by VRForces.

This device uses a large Geospecific database of Afghanistan that was created by ASE, and includes 23 highly detailed airfields.



Location: ANAAC (Kabul, Afghanistan)



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