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FLIGHT TEST SIMULATION IN MISSION CONTROL CENTER USING A FLIGHT TEST
SIMULATOR

Abstract

The Korean Defense Systems Test Center (DSTC) of Agency for Defense Development (ADD) will introduce a capability for simulation technique in Mission Control Center (MCC) at Ahn-heung Proving Ground (APG). The MCC of APG has several functions such as a fire command decision, an evaluation of the mission status and a circumstantial judgment of an emergency destruction in guided weapon test. These functions are base on real time data from various instrumentation systems of test range. Recently MCC needs a new command control system and a people training system to control the complicated launch mission more efficiently. The simulator system was developed to simulate the virtual flight test data like the instrumentation system of test range to conduct the various virtual flight tests in MCC. In the virtual flight test, the user of MCC operates the command control system into normal as a real situation. The simulator system is very useful to developing or checking a command control system and training MCC members. In this paper, we describe the technical concepts, the development results and the application of the simulator system.