Flight Inspection System
of the radio navigation aids

Computer - based Automation Systems

OBJECTIVES:

CFIS-1 is used for the airborne evaluation of accuracy and performance of ground navigation facilities. The system provides the capability to inspect the following aids:

ILS (instrument landing system),
MKR (ILS associated approach markers),
VOR (VHF omnidirectional range),
DME (distance measuring equipment),
NDB (non-directional beacon system),
VHF (communication) and radar systems.

It is a modern, computerized system designed for the acquisition, recording, processing, analysis, display, and reporting of flight inspection data. It acquires various conditional signals from the avionics.

FEATURES:

- Facilities database
- System Parameters database
- Automatic calibration
- Mission database
- Mission replay capacity
- Run time analysis

FUNCTIONS:

- Data acquisition 5 samples/second
- Data filtering
- Data recording
- Trajectory follow navigation
- Flight data management
- Checklist
- Real-time data display
- Real-time analysis
- Hardcopy report
- Post run data replay
- Flying map

REFERENCES:

ANGLE	DISTANCE
Digital Radio Theodolite	GPS
GPS	Selected DME receiver
DGPS (option)	Speed and time

CFIS 1

**CAS PL 94-028 Łódź
ul. Chodkiewicza 1a
phone 48'42' 686 25 47**

NAVAID SIMULATOR

FEATURES:

- works in real time
- 12 bits resolution for analog signals
- signals shape design possibility
- real-time on screen monitoring
- many references
- digital and analog communications
- embedded facilities database
- remotely controlled by laptop
- portable
- menu and active screen

SUPPORTS

NAV receivers
DME transponder
ADF receiver
VHF receiver

REFERENCES

Digital Theodolite
GPS

INTERFACE

8 x RS 232
4 x ARINC 429
IEEE 488
8 x 12 bits D/A converters
4 x composite generators

PROCEDURES

ANNEX 10 TO THE CONVENTION ON INTERNATIONAL CIVIL AVIATION
MANUAL ON TESTING OF RADIO NAVIGATION AIDS Document 8071 ICAO
FLIGHT INSPECTION MANUAL FAA