

Attachment 3

to Operations Group Factual Report

DCA05MA04

AIRPLANE CALLOUTS

Below 150 feet radio altitude, the amount of glideslope deviation required to produce an alert is increased. This reduces the possibility of nuisance warnings caused by proximity to the glideslope transmitter.

Mode 5 can be inhibited by pressing the **BELOW G/S** pushbutton to permit deliberate descent below the glideslope.

All other warnings (except "*BANK ANGLE*") have priority over a "*GLIDE SLOPE*" alert. The GPWS computer automatically eliminates possible nuisance warnings due to erratic glideslope signals.

Mode 6 - Approach Altitude Awareness and Bank Angle Monitoring

This mode increases situational awareness on final approach and monitors for excessively steep bank angles.

As the aircraft descends below the decision height selected on the radio altimeter, "*MINIMUMS MINIMUMS*" is annunciated one time.

Two messages are broadcast to increase altitude awareness:

"FIVE HUNDRED" and *"TWO HUNDRED"*. The 500 foot callout occurs once per approach, and only occurs when a precision glideslope is not being utilized, or if the aircraft is well below a glideslope being flown. The 200 foot callout occurs once per approach and is annunciated on all approaches.

A "*BANK ANGLE*" advisory is generated if a steep bank angle is sensed. The warning limit tightens from 50 degrees at 190 feet AGL to 15 degrees at ground level. This mode protects crews who may be unaware of a potentially dangerous bank angle while maneuvering close to the runway in marginal visibility or at night.