



SYSTEM INTERFACE DESIGN QUESTIONNAIRE EGPWS WORKSHEET

I. CUSTOMER INFORMATION

Aircraft Operator: Contact:	Installer: Contact: Phone:
Aircraft Type/Model and Serial numbers	Engine Type(s) (model number): Hush Kits (STC#) None

II. DESIGN ENGINEERING REQUIREMENTS

- A. Digital photos, pictorial or descriptive layout of the current GPWS installation in the E/E bay
- B. Digital photos, pictorial or descriptive layout of the current cockpit configuration including the Capt & F/O Instrument Panels, Circuit Breaker Panels, GPWS related annunciator locations and legends. Either freestanding annunciators or annunciator modules are available for the EGPWS retrofit. Annunciator modules take up more space but are DZUS mounted for ease of installation/maintenance.
- C. Chapter 24-58-11/21, Chapter 33 and Chapter 34 Aircraft Wiring Diagrams

III. EQUIPMENT PART NUMBERS AND CONFIGURATION ISSUES

The purpose of this work sheet is to obtain the necessary aircraft data to develop aircraft specific interface configurations to support the installation of the Enhanced Ground Proximity Warning Computer (EGPWC).

A. Current GPWS Installation

If GPWS is currently installed in the aircraft, please provide the model and part number, and the program pin strapping:

Manufacturer:	Model No.	Part No.
Is windshear detection enabled?	Program pin strapping	



B. Cockpit Display

Please provide the following information, as applicable.

SYSTEM	MANUF	MODEL NO.	PART NO.	SOFTWARE NO.
EFIS Display				
MFD				
Weather RADAR Display				
Weather RADAR				
Mode controller (EFIS)				

C. Equipment Interfaces

For each source system, please provide the manufacturer, exact model number, part number, and software part number if applicable.

SYSTEM	MANUF	MODEL NO.	PART NO.	SOFTWARE PART NO.	NUMBER OF SOURCES	DATA FORMAT (ARINC 429,575, 547, synchro, pot, discrete, etc.)
Radio Altimeter						
Air Data Computer						
ILS (or Localizer/ Glideslope source)						
MLS						
IRS (or attitude source)						
AOA/SWC						
FMS						
GPS						



E. Discrete Inputs

Please check applicable box for both up and down positions.

PARAMETER	GND	OPEN	+28 VDC
Flaps Down (landing configuration) Flaps Up			
Landing Gear Down Landing Gear Up			

Listed below are typical parameters from each system which are required to implement the EGPWS functions. Note that this list is a typical example. Actual source systems may vary depending on aircraft configuration and selected options.

SYSTEM	PARAMETERS
RADIO ALTIMETER	radio altitude
ADC	barometric altitude, corrected baro altitude, baro rate, computed airspeed, true airspeed, static air temperature or total air temperature
IRS / AHRS	magnetic heading, vertical velocity, pitch, roll, normal and longitudinal acceleration
ILS / NAV receiver	glideslope deviation / flag , localizer deviation / flag
SWC	angle of attack
FMS / GPS	latitude, longitude, ground speed, true track, true heading, mag variation, nav mode, horizontal figure of merit, horizontal integrity limit

IV. ADDITIONAL DATA

A. Does the aircraft have provisions for a GPS Antenna(s)? If so, is either antenna location currently being used? Is the antenna coax installed? If so does it terminate at the E/E bay or in the sidewall? GPS Antenna part number? Station location?

B. On which shelf is the GPWC currently mounted in the E/E Bay? Length of the GPWC mounting tray (tray size). Does the GPWC mounting tray have a plenum or plenum seal?

C. Approximately 6" x 6" area is needed on the stanchion disconnect structure near where the GPWC is installed to mount the Terrain Display Relay Module. Is there room to mount the relay module bracket at GPWC shelf disconnect stanchion? (Provide pictures and/or drawings)

RETURN THIS COMPLETED FORM TO:
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