

REVISIONS				
SHEET	REV	DESCRIPTION	DATE	APPROVED
		SEE SHEET 3 FOR REVISIONS		

UNS-1Esp CONFIGURATION MODULE PROGRAMMING

THE UNS-1Esp CONFIGURATION MODULE MUST BE PROGRAMMED INITIALLY ON THE FIRST FMS START-UP. REFER TO FIGURE 1 FOR UNS-1Esp DISPLAY. THE PROCEDURE IS AS FOLLOWS:

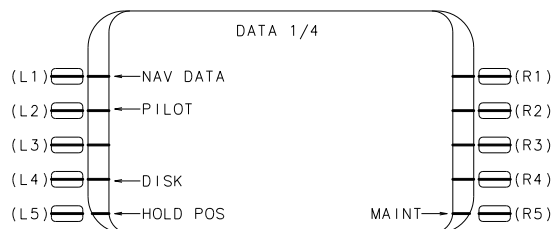


FIG. 1

- WITH POWER APPLIED TO THE AIRCRAFT, PRESS "ON/OFF DIM" KEY. FOR THE NEXT 60 SECONDS, FMS WILL GO THRU SELF-TEST MODE. WHEN COMPLETE, THE INITIALIZATION PAGE WILL BE DISPLAYED. PRESS "ACCEPT" (L5) KEY TO INITIALIZE THE UNS-1ESP. (DATE, TIME, AND POSITION DO NOT MATTER.) PUSH [MSG] AND REVIEW ALL MESSAGES. PRESS "RETURN" (R5) TO THE INITIALIZATION PAGE. PUSH (R1) TO HIGHLIGHT THE DATE FIELD. USING THE KEYPAD, PRESS (4)(5)(6)(7)(8)(9). PUSH [ENTER].
PUSH [DATA] TO SHOW THE DATA 1/4 PAGE. PRESS "MAINT" (R5) TO GO TO MAINT 1/1 PAGE. PUSH "CONFIG" (L1) TO GO TO FIRST CONFIGURATION PAGE. "EDIT" (R1) MUST BE PUSHED ON THIS PAGE BEFORE CHANGES CAN BE MADE TO THE CONFIGURATION. MAKE SURE ALL CHANGES HAVE BEEN MADE BEFORE SELECTING THE (R1) "STORE" LSK.
- PRESS "DISPLAY" (L1) TO SHOW THE DISPLAY CONFIG PAGE. PRESS "COLORS" (L3) AND CONFIGURE AS FOLLOWS:

DISPLAY CONFIG	
DISPLAY TYPE	FLAT PANEL
COLORS	PRIMUS 1000

- PRESS "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.
PRESS "FMS CONFIG" (L2) TO SHOW THE FIRST FMS CONFIGURATION PAGE. PRESS "FUEL" (L2) TO CONFIGURE AS FOLLOWS:

FUEL OPT 1/1	
FUEL MODE	ENABLED
EMPTY WEIGHT	[3] (SEE WEIGHT & BALANCE SHEET)
# OF ENGINES	2
DISPLAY UNITS	LBS
FUEL FLOW TYPE	DC LINEAR

PRESS "FF SCALE" (R2). CONFIGURE AS FOLLOWS:

FF SCALING 1/1	
INPUT RANGE	0-5 VDC
FLOW RATE LOWER	0
FLOW RATE UPPER	2000
VOLTAGE (VDC) LOWER	0
VOLTAGE (VDC) UPPER	5.0
MIN FF	75

PRESS "RETURN" (R5) TO RETURN TO FUEL OPT PAGE.

PRESS "APU" (R3) KEY. CONFIGURE AS FOLLOWS:

APU OPT 1/1	
FUEL FLOW1	0
FUEL FLOW2	66
FUEL FLOW3	116
FUEL FLOW4	69
APU SOURCE	[9] DISCRETE

PUSH "RETURN" (R5) TWICE TO RETURN TO FMS CONFIG 1/3 PAGE.

- PRESS "PERF" (L3) KEY. CONFIGURE AS FOLLOWS:

PERF OPT 1/1	
BASIC	ENABLED
MANUAL	DISABLED
ADVANCED	[10] DISABLED
CLIMB GRAD	500 FT/NM

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 1/3 PAGE.

- PRESS "VNAV" (L4) KEY. CONFIGURE AS FOLLOWS:

VNAV OPT 1/4	
VNAV MODE	ENABLED
ENRTE FPA LIMIT	-6.0°
APPR FPA LIMIT	-6.0°
VDEV STOW	ENABLED
VDEV SCALE	NORMAL
TGT V/S	-1000
TGT FPA	-3.0°
TEMP COMP	COLD

PRESS [NEXT] FOR PAGE 2.

VNAV OPT 2/4	
429/571/ASCB VDEV	ENRT+APPR
PITCH	ENTR+APPR
VERT SPD	ENTR+APPR
ANALOG VDEV	ENTR+APPR
PITCH	ENTR+APPR

PRESS [NEXT] FOR PAGE 3.

VNAV OPT 3/4	
V/S DESCENT	DISABLED
ALT HOLD	DISABLED
SPD HOLD	DISABLED
SPD CLIMB	DISABLED
DESCENT V/S	-0
APPR STEER	PITCH

PRESS [NEXT] FOR PAGE 4.

VNAV OPT 4/4	
SPD CLIMB 1	250
SPD CLIMB 2	___ KTS/0. ___ MACH
SPD CLIMB 3	___ KTS/0. ___ MACH

- PRESS "RETURN" (R5) TWICE TO RETURN TO CONFIG 1/2 PAGE.

PRESS "ARINC" (L4), AND SELECT "RECEIVE" (L1) FROM ARINC OPT 1/1. CONFIGURE AS FOLLOWS:

ARINC RCV 1/1	
PORT 0	LS GNSS 1 (FMS#1)
	LS GNSS 2 (FMS#2)
PORT 1	[8] TAWS-A739
PORT 2	[11] LS GNSS 2 (FMS#1)
	LS GNSS 1 (FMS#2)
PORT 3	[4] AFIS / UNILINK
PORT 4	[12] NO SENSOR
PORT 5	IC600 R-03
PORT 6	IC600 L-03
PORT 7	[5] CROSSFILL 1

PRESS "RETURN" (R5) TO ARINC OPT 1/1 PAGE. SELECT "TRANSMIT" (L2) AND CONFIGURE AS FOLLOWS:

ARINC XMIT 1/1	
PORT 0	IC615-01
PORT 1	[6] 429 XFILL
PORT 2	429 LS
PORT 3	UNS HS429-1

PRESS "RETURN" (R5) TWICE TO RETURN TO CONFIG 1/2 PAGE.

NOTES:

- THIS DRAWING FILED IN CCD.
- FOR ADDITIONAL OPTION SELECTIONS, OR ADDITIONAL INFORMATION, REFERENCE UNIVERSAL FMS CONFIGURATION MANUAL P/N 34-60-26 (REF) UNIVERSAL FMS INTERFACE MANUAL P/N 34-60-27 (REF) OF: UNIVERSAL AVIONICS SYSTEMS CORP. 3260 EAST LERDO RD, TUSCON, AZ 85706.
- IF WEIGHT INFORMATION IS UNAVAILABLE, ENTER A TEMPORARY WEIGHT OF 11,710 LBS. THIS CAN BE CORRECTED AT ANY TIME.
- CONFIGURE AS "AFIS" IF AFIS IS INSTALLED, "UNILINK" IF UNILINK IS INSTALLED, OR "NO SENSOR" IF NEITHER IS INSTALLED.
- CONFIGURE ARINC RECEIVE PORT #7 FOR "CROSSFILL 1" ONLY IF THE AIRCRAFT IS EQUIPPED WITH DUAL FMS SYSTEMS. IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NO SENSOR."
- CONFIGURE ARINC TRANSMIT PORT #1 FOR "429 XFILL" IF THE AIRCRAFT IS EQUIPPED WITH DUAL FMS SYSTEMS OR A UCD SYSTEM. IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NO SENSOR."
- IF THE OPTIONAL ADF #2 SYSTEM IS INSTALLED ON THE AIRCRAFT, THEN "M ADF" SHALL BE CONFIGURED AS "2" ON THE "TUNE OPT 1/1" PAGE.
- CONFIGURE AS "TAWS-A739" IF INSTALLED, OTHERWISE CONFIGURE AS "NO SENSOR".
- CONFIGURE AS "MANUAL" IF MANUAL APU FUEL FLOW ENTRY IS DESIRED.
- REFERENCE PERFORMANCE DATABASE CONFIGURATION DRAWING IF INSTALLED, OTHERWISE CONFIGURE AS SHOWN.
- IF THE AIRCRAFT IS EQUIPPED WITH A SINGLE FMS OR PROVISIONS FOR A SECOND FMS, THEN THE PORT SHALL BE CONFIGURED AS "NO SENSOR".
- IF LORAN IS INSTALLED, CONFIGURE AS "LCS".
- CONFIGURE AS SHOWN IF TAWS IS INSTALLED, OTHERWISE CONFIGURE AS "DISABLED" AND "N/A".
- THIS ITEM WILL NEED TO BE MANUALLY CONFIGURED. THIS WILL BE INDICATED BY AN "(M)" NEXT TO THE SETTING.

DATE	5/29/2003	CESSNA AIRCRAFT COMPANY
DRAWN	GARY SCHWEIZER	AIRCRAFT DIVISION
CHECK		P.O. BOX 7794
		WICHITA, KANSAS 67277
GROUP		
CHECK		
SECT		UNS-1ESP (SCN802.2)
PROJ		FMS SYSTEM CONFIGURATION
M.E.		(XLS)
OTHER		
FABRICATE PER	CSAMDS	SIZE FSCM NO.
PROCESS PER	XXXXXXXXXX	DRG NO.
WIRE TERMINATION PER	5652216	F 71379 8623261
		SCALE: PARENT: 8623257 SHEET 1 OF 3

8623261

EC 52743

UNS-1 CONFIGURATION MODULE PROGRAMMING (CONT'D)

7. PRESS "CSDB" (L5) AND CONFIGURE AS FOLLOWS:

CSDB OPT 1/1	
RCVR 1	VOR
RCVR 2	DUAL DME
RCVR 3	NO SENSOR
RCVR 4	NO SENSOR
XMITTER 1	TUNE
XMITTER 2	NONE

PRESS "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE. (CONTINUED ON PAGE 2)

8. PRESS "FMS CONFIG" (L2) KEY AND THEN PRESS "APPR" (L5) KEY AND CONFIGURE AS FOLLOWS:

APPR OPT 1/1	
APPR MODE	ENABLED
REMOTE TUNE	ENABLED
REMOTE ARM	DISABLED
ROLL GAINS	3X
LAT STEER	ROLL

PRESS "APPR TYPES" (L5) AND VERIFY THE FOLLOWING SELECTIONS. THESE ITEMS ARE AUTOMATICALLY SET BY THE CONFIGURATION OF THE ARINC AND CSDB PAGES.

APPR TYPES 1/2	
GPS	ENABLED
NDB	ENABLED
VOR	ENABLED
RNV	ENABLED
VFR	ENABLED
ILS	ADVISORY
LOC	ENABLED
BC	ENABLED

PRESS [NEXT] FOR PAGE 2.

APPR TYPES 2/2

TAC	[14] ADVISORY (M)
GLS	ADVISORY
GWS	ADVISORY

PUSH "RETURN" (R5) TWICE TO RETURN TO FMS CONFIG 1/3 PAGE.

9. PRESS "NAV" (R3) AND CONFIGURE AS FOLLOWS:

NAV OPT 1/1	
A/C TYPE	FIXED WING
AC ROLL STR	DISABLED
HDG SEL	ENRT & APPR
AT OR BELOW	20000
BANK LIMIT	28.0
AT OR ABOVE	32000
BANK LIMIT	15.0

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 1/3 PAGE.

10. PRESS "TUNE" (R4) AND CONFIGURE AS FOLLOWS:

TUNE OPT 1/1	
# COMMS	2
# NAVS	2
# ADF	[7] 1
# ATC	1
COMM RADIO	8.33/25 KHZ

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 1/3 PAGE.

11. PRESS [NEXT] BUTTON TO GO TO FMS CONFIGURATION PAGE 2. PRESS "XFILL" (L1) AND CONFIGURE AS FOLLOWS:

XFILL OPT 1/1	
MASTER	ENABLED
INIT	ENABLED
FUEL	ENABLED
FPL	ENABLED
X-FILL MODE	PUSH
TUNE PRESETS	ENABLED

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 2/3 PAGE.

12. PRESS "CABIN DISP" (L2) AND CONFIGURE AS FOLLOWS:

CABIN DISP 1/1	
CABIN DISPLAY	DISABLED

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 2/3 PAGE.

13. PRESS "EFIS" (L3) AND CONFIGURE AS FOLLOWS:

EFIS OPT 1/1	
TYPE	429 ADV

PRESS "PL-4 OPTS" (L4) AND CONFIGURE AS FOLLOWS:

PL-4 OPT 1/1	
CHP	N/A
RADAR TYPE	N/A
PL-4 REF	N/A
ADF DIAG	N/A
FUEL MAX	N/A
TCAS	N/A
MLS	N/A
RAD ALT	N/A

PRESS "RETURN" (R5) TWICE TO RETURN TO FMS CONFIG 2/3 PAGE.

14. PRESS "TAWS" (L4) AND CONFIGURE AS FOLLOWS:

TAWS 1/1	
MODE/RANGE SEL	[13] A739 [A1]
PAGE DISPLAY	[13] A739

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 2/3 PAGE.

15. PRESS "VISION 1" (L5) AND CONFIGURE AS FOLLOWS:

VISION 1 1/1	
INTERFACE	DISABLED

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 2/3 PAGE.

16. PRESS [NEXT] BUTTON TO GO TO FMS CONFIGURATION PAGE 3. CONFIGURE AND/OR VERIFY THE FOLLOWING:

FMS CONFIG 3/3	
STRUT SW	DIGITAL
POS EST DSP	ANP/RNP
MAX STBY TIME	2 HRS
PLT DB • PWRUP	RETAINED
FLIGHT INFO	NONE

17. PRESS "FAA FIAS" (R2) AND CONFIGURE AS FOLLOWS:

FAA FIAS 1/1	
WAAS FEATURES:	DISABLE
HAL METERS	40.0
VAL METERS	12.0
GPA MULT	0.25
HAL	100.00
VAL	100.00

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 3/3 PAGE.

18. PRESS "NASA T38" (R3) AND CONFIGURE AS FOLLOWS:

NASA T38 1/1	
NASA T38	DISABLED

PRESS "RETURN" (R5) TO RETURN TO FMS CONFIG 3/3 PAGE. PRESS RETURN TO RETURN TO CONFIG 1/2 PAGE.

19. PRESS "DISCRETES" (L3) AND CONFIGURE AS FOLLOWS: FOR DISCRETE INPUTS (L2):

DISC IN 1/2	
DISC IN 1	[15] APU DSC 2/2
DISC IN 2	[15] APU DSC 1/2
DISC IN 3-6,8	NONE
DISC IN 7	FREQ MNGT

PRESS [NEXT] FOR PAGE 2.

DISC IN 2/2	
DISC IN 9-11	NONE

PRESS "RETURN" (R5) TO RETURN TO DISC OPT 1/1. FOR DISCRETE OUTPUTS (L3):

DISC OUT 1/2	
DISC OUT 1-8	NONE

PRESS [NEXT] FOR PAGE 2.

DISC OUT 2/2	
DISC OUT 9 28V	FMS VALID

PRESS "RETURN" (R5) TWICE TO RETURN TO CONFIG 1/2 PAGE.

UNS-1Esp CONFIGURATION MODULE PROGRAMMING (CONT'D)

20. PRESS "AIR DATA" (R4) AND CONFIGURE AS FOLLOWS:

AIR DATA 1/1	
ALT DISPLAY	BOTH
A/S DISPLAY	TAS & IAS
MINIMUM TAS	50 KTS
SAT FORMAT	DIGITAL
MACH FORMAT	DIGITAL
BARO ALT FMT	DIGITAL
PRES ALT FMT	DIGITAL
A/S FORMAT	DIGITAL

PRESS "RETURN" (R5) TO RETURN TO CONFIG 1/2 PAGE.

21. WITH THE FIRST CONFIGURATION PAGE SHOWING, PRESS **ENTER** TO SHOW CONFIGURATION PAGE 2. SEE FIGURE 2. PRESS "SCN" (L1). FILL IN SCN OF THE UNIVERSAL FMS "802.2". USE (+/-) TO ENTER ".". PRESS **ENTER** PRESS "AIRCRAFT IDENTIFICATION" (L2). FILL IN AIRCRAFT IDENTIFICATION UP TO 24 CHARACTERS INCLUDING SPACES. USE (+/-) TO ENTER A SPACE. THE FOLLOWING FORMAT SHOULD BE FOLLOWED FOR AIRCRAFT ID:

ENTER CITATION XLS SN XXXX

WHERE XXXX REPRESENTS AIRCRAFT SERIAL. TO SAVE THE NEW CONFIGURATION, PRESS "STORE" (R1) TWICE. WHEN YOU PRESS (R1) THE SECOND TIME TO SAVE THE NEW CONFIGURATION, THE SYSTEM WILL RESET ITSELF AND INITIATE POWER ON SELF TESTS.

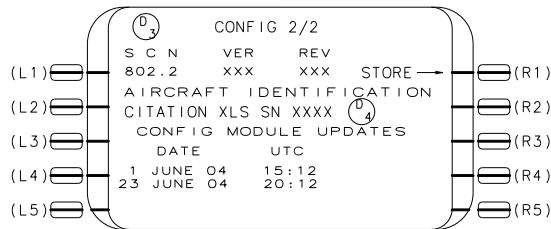


FIG. 2

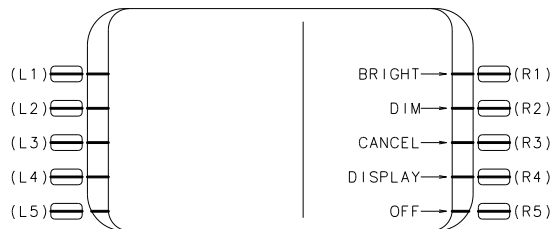


FIG. 3

TO DISPLAY EXTERNAL VIDEO SOURCES, SUCH AS AIRSHOW OR A VIDEO CAMERA, ON THE UNS-1Esp, SELECT THE **ON/OFF DIM** FUNCTION KEY. THE DISPLAY SHOULD APPEAR PER FIG. 3. SELECT THE "DISPLAY" OPTION (R4). THE DISPLAY OPTION WINDOW WILL ALLOW YOU TO SELECT THE VIDEO OPTION. EXIT THE AUXILIARY VIDEO FUNCTION BY PRESSING ANY FUNCTION KEY.

REVISIONS				
SHEET	REV	DESCRIPTION	DATE	APPROVED
2	A	BY REVISION: 1) "4739" WAS "ARING-739". EFF: EC52743	6/16/03 CGS	SEE SIGNATURE SHEET
2	B	BY REVISION: 1) ADDED "VISION 1" CONFIG SECTION. 2) ADDED "NASA 138" CONFIG SECTION. EFF: EC52743	12/9/03 CGS	SEE SIGNATURE SHEET
1	C	BY REVISION: 1) CHANGED FLAG NOTE 6 "... DUAL FMS SYSTEMS OR A UCD SYSTEM" WAS "... DUAL FMS SYSTEMS. IF..." 2) CHANGED TITLE BLOCK ON SECOND PAGE "UNS-1Esp" WAS "UNS-1" EFF: EC53762	3/18/04 RS	SEE SIGNATURE SHEET
1, 2, 3	D	BY REVISION: 1) TITLE BLOCK WAS "UNS-1Esp" (SCN802.0) FMS SYSTEM CONFIGURATION". 2) STEP 21 SCN "802.2" WAS "802.0". 3) FIGURE 2 SCN "802.2" WAS SCN "802.0". 4) "CITATION XLS" WAS "CITATION EXCEL" EFF: EC54031	5/7/04 AJO	SEE SIGNATURE SHEET

DATE	5/29/2003	CESSNA AIRCRAFT COMPANY
DRAWN	GARY SCHWEIZER	AIRCRAFT DIVISION
GROUP		P.O. BOX 7704
CHECK		WICHITA, KANSAS 67277
SECT		UNS-1ESP (SCN802.2)
PROJ		FMS SYSTEM CONFIGURATION
M.E.		(XLS)
OTHER		
FABRICATE PER	CSAMDS	SIZE FSCM NO.
PROCESS PER	XXXXXXXXXX	DWG NO.
WIRE TERMINATION PER	SESZ16	71379
		8623261
		SCALE
		SHEET 3 OF 3

8623261 P.D