

Checklist Database Generator Program Help System and User's Guide Report No. 34-60-55

For generating Crew Checklists for storage in Universal's FMS and display on the Collins Pro Line 4 MFD.

NOTICE

IT IS THE USER'S RESPONSIBILITY TO CREATE, VERIFY AND MAINTAIN THE CHECKLISTS. THIS PROGRAM IS PROVIDED AS A CONVENIENCE FOR THE CREW AND DOES NOT RELIEVE ANY REQUIREMENTS FOR FAA APPROVED AFM AND/OR CHECKLIST. UNIVERSAL AVIONICS SYSTEMS CORPORATION ASSUMES NO LIABILITY RESULTING FROM INCORRECT CHECKLISTS.

This document replaces Report No. 3010, Checklist Database Generator Program User's Guide, dated December 9, 2003, in its entirety.

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34-60-55 13 February 2007

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Checklist Generator Program Help System and User's Guide

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Checklist Generator Program Help System and User's Guide

Introduction

Makeup and Use of this Manual

The Checklist Generator Program Help System and User's Guide consists of a single file located within the Checklist Generator program. This Help System and User's Guide may be accessed multiple ways where the format and layout may vary, however the content remains the same. It may be accessed in Help System format from within the Checklist Generator Program or from the Windows Start menu. It is also included on the program CD (P/N A12032) in .pdf file format. It is suggested the .pdf file is used for printing purposes.

This Help System and User's Guide includes instructions for creating and editing checklists with the Checklist Generator program.

Checklist Generator Kit Contents

The Checklist Generator program kit, P/N P12061, includes:

- 1 ea. Checklist Generator Program CD, P/N A12032
- 1 ea. Checklist Generator Program Help System and User's Guide, Report No. 34-60-55 (contained on the program CD)

Abbreviations and Terminology

This manual contains no abbreviations or terms that have varying interpretations throughout the industry. Throughout this manual you may see part or software numbers containing X's. These X's define variables which, in specific portions of text, do not matter.

Contact Information

Please submit comments, suggestions, or other concerns about this manual to our Technical Publications Department at TechPubs@uasc.com. For changes in address and distribution, etc. contact info@uasc.com. For technical questions, please contact customersupport@uasc.com.

Description

The Checklist Generator program is a software tool developed by UASC that allows users to compile custom electronic checklists for display on the Lear 60 Pro Line 4 Multi-Function Display (MFD). As many as four different checklists can be created; Normal, Abnormal, Emergency and Crew Notes. Checklists are created on a PC with the Checklist Generator program, saved to disk, then loaded into the UASC FMS via the Data Transfer Unit (DTU). The Checklists reside in the FMS and display on the Lear 60 Pro Line 4 MFD.



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Operation

Refer to the UASC Pro Line 4 Supplement filed in the applicable FMS Operator's Manual for more information on the use of UASC / Pro Line 4 Checklists. Database loading instructions are contained in the FMS Operator's Manual (for FMS SCN 802/902 and prior) or the FMS Reference Guide (FMS SCN 803/903 and later).

FAA Approval

UASC is not responsible for the content a user inputs into the Checklist Generator. Each user will obtain FAA approval for a process that defines the modification of their checklists. FAA Advisory Circular 120-64 describes the type of approval that may be required.



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Installation and Setup

Installation and Setup

Abbreviated installation instructions for the Checklist Generator program are contained on the cover of the program CD (P/N A12032), however this section provides detailed installation and removal instructions as well as the supplies and equipment required to install and run the Checklist Generator program.

Required Supplies and Equipment

For Program Installation:

- IBM-compatible Personal Computer with a Pentium II 400 MHz or higher processor
- Microsoft® Windows® XP operating system
- CD-ROM drive
- 64 MB of memory recommended
- Checklist Database Generator Program kit (P/N P12061) containing the program disk (P/N A12032) and User's Guide (Report No. 34-60-55)
- 3.5" floppy disk drive or 100 MB Zip drive

For Checklist Generation:

- Blank 3.5" floppy or ZIP disk
- A draft of the desired Normal, Abnormal, Emergency and Crew Notes checklist(s) to be created.

Which Disk Do I Need?

The type of disk required depends on which DTU is installed in your aircraft.

A floppy disk is used in the **DTU**. The DTU is typically used with UNS-1B, UNS-1C, UNS-1Csp, UNS-1D or UNS-1K FMS installations containing FMS SCN 603/703 and earlier.

An Iomega ZIP® disk is used in the **DTU-100**. The DTU-100 is typically used with UNS-1C+, UNS-1Csp+, UNS-1D+, UNS-1K+, UNS-1E, UNS-1Esp, UNS-1F or UNS-1L FMS installations containing FMS SCN 603/703 and later.



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Which Drive Do I Need?

The Checklist Database is created on your PC, then saved to disk. The data disk is loaded into the FMS via the DTU. Therefore, you will need the same type of disk drive on your PC as the DTU installed in your aircraft.

- If your aircraft is equipped with the **DTU**, a 3.5" floppy disk drive is required. The DTU is typically used with UNS-1B, UNS-1C, UNS-1Csp, UNS-1D or UNS-1K FMS installations containing FMS SCN 603/703 and earlier.
- If your aircraft is equipped with the **DTU-100**, an Iomega-compatible ZIP® disk drive is required. The DTU-100 is typically used with UNS-1C+, UNS-1Csp+, UNS-1D+, UNS-1K+, UNS-1E, UNS-1Esp, UNS-1F or UNS-1L FMS installations containing FMS SCN 603/703 and later.

Installing Checklist Generator Program

1. Insert the program CD (P/N A12032) into the computer's CD-ROM drive. If the Autorun function is enabled, the installation program starts automatically.

If it does not, from Windows Start menu, select Run. Enter X:\UnsChecklistEdit (substitute the appropriate letter of the computer's CD-ROM drive for X), or navigate to the CD and double click the "Install UnsChecklistEdit_15_0.exe" executable file to open the UNS-1 Checklist Editor 15.0 Setup Program.



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- 2. In the Welcome window, click Next to display the version information.
- **NOTE**: To cancel the installation and exit the installation wizard, click **Cancel** at anytime.

Read Me File	×
Universal Checklist Generator 15.0 - Release 🗡]
SCN 15.0 Release 02/13/2007	
This program compiles checklist text files into a checklist database for the Lear 60 Proline 4 configuration. The help file is included in this installation.	1
< <u>B</u> ack (<u>Next</u> >) Cance	

3. Click Next to select the destination location for the program.

🔏 Choose Destination Lo	cation	×
	Setup will install UNS-1 Checklist Generator 15.0 in the following folder. To install into a different folder, click Browse, and select another folder. You can choose not to install UNS-1 Checklist Generator 15.0 by clicking Cancel to exit Setup.	
	Destination Folder C:\Program Files\UCG15 Browse < Back Next > Cancel]

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- 4. The default destination for the program is in the C:\\Program Files\UCG15 folder. If an alternate location is desired, click **Browse...** and choose another folder. Note the location of the program file as it will be accessed during the checklist generation process.
- 5. Click Next.

🛃 Start Installation		×
	You are now ready to install UNS-1 Checklist Generator 15.0. Press the Next button to begin the installation or the Back button to reenter the installation information.	
	< Back Next > Cancel	

- 6. Click Next in the Start Installation window to begin the installation process.
- 7. Click **Finish** when done to exit the installation wizard.

Removing Checklist Generator Program

When installed in Program Files folder:

- 1. Click Start, then All Programs.
- 2. Select UCG 15 to display the sub-menu.
- 3. Select Uninstall UCG.
- 4. Follow the instructions displayed in the uninstall wizard.

Alternative Method:

- 1. Click Start, then Control Panel to open the Control Panel window.
- 2. Locate and open Add or Remove Programs.
- 3. Click to select UNS-1 Checklist Generator 15.0 from the list of programs.
- 4. Click Change/Remove.
- 5. Follow the instructions displayed in the uninstall wizard.



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How to Create or Edit a Checklist

Checklist Creation Rules

It is imperative that the following rules be read and thoroughly understood before attempting to create the checklist.

When creating the checklist each line must contain a control code. The ten control codes should be understood before proceeding with the creation rules.

- 1. Each of the four checklists must begin with a date (DA) control code.
- 2. Each of the four checklists must end with an end of data (ED) control code.
- 3. There must be two spaces after each control code. The ^ is used in this text to represent where the space bar is used.
- 4. Each line of text may contain no more than 35 characters. The 35 characters includes the required two spaces after the control code but not the control code itself.
- 5. Each page may contain no more than 16 lines.
- 6. Each line must begin with one of the ten control codes.
- 7. Each chapter title (TI) may contain no more than two lines.
- 8. Advisory notes (AN) and cautionary notes (CN) may contain no more than 35 characters per line and may consist of as many lines as will fit on a page. The 35 characters includes the required two spaces after the control code but not the control code itself.
- 9. Each line of text must end with a carriage return which is indicated in the text as <cr>.
- 10. Each chapter may consist of as many as 15 pages.
- 11. Each of the four checklists may contain as many as 99 chapters.
- 12. All four checklists may contain no more than a combined total of 4000 lines.
- 13. Each control code must have a line of text unless the control code is BL, PA or ED.
- 14. Only standard keyboard characters may be used.
- 15. A maximum of 15 lines coded MC is allowed following the ML code.
- 16. Lower case characters will be converted to upper case characters during processing.



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Checklist Control Codes

A checklist control code is a two letter abbreviation preceding each line of the checklist. The Checklist Generator program uses these codes to convert the checklist text file to an FMS-compatible file. Therefore, each line of the checklist must contain a control code.

The ten control codes are defined below and should be understood before proceeding with the Checklist Creation Rules.

<u>Code</u>	<u>Action</u>	Description
DA	DAte	Date must be in MM-DD-YYYY format. Leading zeros must be used with single digit months or days. The year must be a four digit year. The dashes must also be input. Each of the four checklists must begin with the DA control code. DA may not appear anywhere else and must always be followed by TI. DA line must be exactly the same on all checklists.
TI	TItle	Title line control code creates a new chapter or section. Two title lines may be used when a two line chapter title is needed. TI must be the first code following a DA code. PA, MC and ED are not allowed after the TI code.
IT	ITem	Item control code is used for a single item line.
ML	MultiLine	MultiLine control code is used for the first line of a multiple line item. It is followed with an MC control code.
MC	Multiline Continuation	Multiline Continuation control code is used for the second and subsequent lines of a multiline item. A maximum of 15 MCs are allowed after ML.
AN	Advisory Note	The Advisory Note control code is used when creating advisory notes. Notes are normally multiple lines and the AN code is used at the beginning of all lines in a note. The AN code causes the note to appear as white letters on the MFD.
CN	Cautionary Note	The Cautionary Note control code is used when creating cautionary notes. Cautions are normally multiple lines and the CN code is used at the beginning of all lines in a caution. The CN code causes the caution to appear as yellow letters on the MFD.
BL	Blank Line	Blank Line control code is used to create a blank line. It is required that two spaces ($^{^{^{^{^{^{^{^{^{^{^{^{*}}}}}}}}}$) and a carriage return $<$ cr> follow the BL Code. Text is not allowed on this line.

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<u>Code</u>	<u>Action</u>	Description
РА	PAge break	Page Break control code creates a new page in the chapter. PA is used when more than 16 lines are needed for a chapter. Do not enter a date (DA), title (TI) or a page number. The FMS will automatically display them on the MFD. PA cannot be used following a TI control code. It is required that two spaces (^^) and a carriage return <cr> follow the PA Code.</cr>
ED	End of Data	End of Data control code is used to define the end of a checklist. This code must be input at the end of a file and must be preceded by a PA code. It is required that two spaces (^^) and a carriage return <cr> follow the ED Code.</cr>

Create or Edit a Checklist

The quickest and simplest method to create a custom checklist is to open a sample checklist (included with the program software), edit as desired and save with another name. The Checklist Generator program includes a sample checklist text file for each type of checklist (Normal, Abnormal, Emergency and Crew Notes) in a subfolder named "Sample". The following procedures create all four checklists. If fewer than the four are desired, simply edit those desired and proceed to "Generate the Checklist".

While it is recommended that checklists be created by editing the sample checklists included in the program, one may be created from scratch. This is accomplished by opening a blank document in a text editor and using the Checklist Creation Rules and Control Codes to develop the checklist. Note that these instructions must be adhered to exactly to successfully generate the checklist.

How to Create a Checklist

- 1. Ensure you have a draft of the checklists to be created and a blank DTU-compatible disk readily available. Refer to Required Supplies and Equipment if you have not done so yet.
- 2. Read the Checklist Creation Rules to familiarize yourself with the specific requirements of each line of the checklist.
- **NOTE:** It is imperative that the Checklist Creation Rules be read and thoroughly understood before proceeding any further. If you have not read the Checklist Creation Rules, do so now.
- 3. Create the checklist:
 - Locate Sample Checklists (a)
 - (b) Edit Sample Checklist
 - (c) Save Checklist
 - (d) Generate Checklist

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Locate Sample Checklists

1. Navigate to the UCG15 folder under program files.

When the program is installed, the installation wizard defaults to install the program under the Program Files folder on your computer's hard drive (typically labeled "C:" drive). If you selected an alternate location, navigate to that location to access the program files.

- 2. In the UCG15 folder, click to open the Checklists folder.
- 3. Click to open the **Sample** folder. Verify the folder contains four checklists in .txt file format.



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Edit Sample Checklist

4. Click to open the NORCKLST.txt file. The checklist will open in your default text editor.

> Microsoft® Notepad is bundled with the Windows Operating system, and unless otherwise specified, the .txt file will open in this program.

5. Edit the sample checklist until it suits your needs.

🗟 N	ORCKLST.TXT - Notepad	- O X
File	Edit Format View Help	
DA TI BI	02-29-1992 SAMPLE NORMAL CHECKLIST	1
	NOTICE IT IS THE USER'S RESPONSIBILITY	
EN EN	TO CREATE, VERIFY AND MAINTAIN THE CHECKLISTS. UNIVERSAL	
EN EN	AVIONICS SYSTEM CORP ASSUMES NO LIABILITY RESULTING FROM	
EN PA	INCORRECT CHECKLISTS.	
BL	BAGGAGESECURE	
ÎT IT	AFT CABIN DOOR CLOSED & LATCHED HANDLEFWD	
IT IT	ACCESSUNOBSTRUCTED AISLECLEAR	
PA TT	PASSENGERSBRIEFED	
BL	CONTROLS LOCKSTOWED	
ML M⊂	SAFETY BELTS, SHOULDER HARNESSES & SEATS	
MC IT AN	FLIGHT CONTROLSCHECK CIRCUIT BREAKER PANELS:	
IT IT PA	BREAKERSIN BUS TIE SWITCHESOPEN (DOWN)	
AN AN	PANEL SWITCHES AND AVIONICS	
IT IT	PILOT'S FREE-SLAVE (SLAVE) STATIC SOURCE (BOTH)	
IT IT	RUDDER BOOST (ÅS DESIRED) EMER BUS (NORMAL)	
	ENG CMPTR (AUTO) LANDING GEAR (DN)	
IT IT PA	COPILOT'S FREE-SLAVE (SLAVE) R INSTR LIGHTS (AS REQUIRED)	
IT IT	EMERGENCY POWERCHECK & ON THRU-FLIGHT, EMERGENCY POWER	
IT IT IT	STANDBY GYRO.UNCAGE, GYRO ERECT BATTERIESCHECK & ON	
AN IT	GPU (IF DESIRED)CONNECT INVERTERSON	
AN	OXYGEN SYSTEM:	•
_		- 111

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Sample Checklist

			DA must appear or
			1 to 2 line Title
	DA**05-29-1993(cr)		begins each chap
	TI ** ABORTED * TAKEOFF (cr)		
	IT THRUST LEVERS	I ↑	Combination of
chap 1	IT WHEEL BRAKESAPPLY(CT)	16 lines	IT, ML/ MCs, AN,
page 1	IT CONTROL COLUMN	max on page	CN, and BL lines
	IT 'DRAG'CHUTE'OR'TR'SAS'RBQ'D(cr)	+	on a page
	PATTCABIN/COCKPITTERE SMOKE COR(cr)		PA line to end each page
	TI * FUMES (cr)		
	BL** <cr></cr>		Blank lines as
	IT 'CREW OXY MASKS: DON, SELECT 100% (Cr)		llem line
	ML * PASSENGER OXYGEN(CT)		Multiline item Mi
chap 2	MC^^VALVECHECK, AUTO(cr)		followed by one or
page 1	IT "PASSENGER OXYGEN MASKS-DEPLOY (cr)		moreMCs
	BL**(cr)		
	AN "IF SOURCE IS NOT IMMEDIATELY (cr)		A duisary potes
	AN ** KNOWN . * LAND * AS * SOON * AS * POSSIBLE < cr >		Auvisory notes
	PA ^{**} (cr)		-
	CN "FIRE OR ELIMINATE SMOKE/FUMES(cr)		Cautionary notes
	IT COCKPIT DOOR CERTAIN OPEN (cr)		
chap 2	BL ^{~^} (cr)		
page 2	AN "IF SMOKE OR FUMES CONTINUE: (cr)		
	ML ** PRESS FAULT/MAN *SWITCH MAN (Cr)		
	MC^^MANUAL^CNTRLUP(MAX.13000') <cr></cr>		
	PA^^ <cr></cr>		1.2
		NOTE: ^ =s	pace bar arriage return
)	Surec	arrageretarin
		DONO	T USE THESE
	TI^_ENGINE_FAILURE_DURING_APPROACH <ct></ct>	YOUR	HECKLIST
	TI^^(AUTOPILOT^ON^OR^OFF) <cr></cr>	120762380	0.05 etc. A (20.05)
	BL ^{~~} (cr)		
last	IT "CNTRL"WHL MASTR SWICH. DEPRESS(Cr)		
chap	MC^^ENGINES) INCREASE AS REO D(ct)		
page 1	IT "FLAPS		
	IT ^AIRSPEEDVREF+10. MINIMUM <cr></cr>		
	IT "RUDDER TRIM AS REQ'D(cr)		
	PA^^(cr)		
	AN " REFER TO EITHER OF THE (Cr)		
	AN " FOLLOWING PROCEDURES AS (cr)		
	AN APPLICABLE: (CF)		Page of notes
last	AN ABNORMAL CHECKLIST. (CT)		- age of notes
chap	AN ^ _GO AROUND BALKED LANDING (ONE CT)		Each page must
µage ∠	AN ^ ENGINE). ABNORMAL CHECKLIST (cr)		have at least 1
	PA^^(CT)		
	ED** (cr) 4		End of input file
		1	Construction and All States of the

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Save Checklist with a New Name

6. Assign a new name for the checklist and save it under this name.

In Notepad, this is accomplished by clicking **File**, then **Save as...**. Be sure to "Save As", otherwise the new checklist will overwrite the sample checklist.

Note the location of the new checklist as it will be needed when the checklist is generated and saved to disk.

📕 NORCKLST.TXT - Notepa	ad	
File Edit Format View H	telp	
New Ctrl+N Open Ctrl+O Save Ctrl+S	CHECKLIST	<u> </u>
Save As Page Setup Print Ctrl+P Exit	S RESPONSIBILITY IFY AND MAINTAIN UNIVERSAL 4 CORP ASSUMES NO TING FROM KLISTS.	
TI CABIN INTERIOR BL IT BAGGAGE IT AFT CABIN DOOR IT HANDLE IT ACCESS IT AISLE IT PASSENGERS PA TI BEFORE STARTIN BL IT CONTROLS LOCK. ML SAFETY BELTS, MC HARNESSES & SE MC IT FLIGHT CONTROL AN CIRCUIT BREAKE IT BUS TIE SWIT PA	INSPECTION SECURE CLOSED & LATCHED FWD UNOBSTRUCTED BRIEFED G ENGINES BRIEFED G ENGINES STOWED SHOULDER ATS CHECK R PANELS: IN CHESOPEN (DOWN)	

- 7. Repeat steps 4 thru 6 for the abnormal, emergency and crewnotes checklists, if desired.
- 8. Exit the text editor.



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Generate Checklist

- 9. Insert the blank Zip or Floppy disk (compatible with your FMS DTU) into the computer drive.
- 10. Open the Checklist Generator program.
 - If the default destination (C:\\program files\UCG15) was selected during
 installation, the program can be opened from the Start menu programs list. Select
 UCG 15, then click UNS-1 Checklist Generator 15.0 to open the Checklist
 Generator Program.
 - If another destination location was selected during installation, navigate to the selected folder and click UCG.exe to open the program.

			-		
6	Trainer	•			
5	Adobe Reader 7.0				
6	👔 Google Earth	•			
6	FMSTrainer	•			
6	👔 WinZip	•			
Ć	🄰 Apple Software Update				
6	1 UFP 25	•			1
G	🔋 UCG 15	•	3	UCG User Manual	
			<u> </u>	Uninstall UCG	
			×	UNS-1 Checklist Generator 15.0	
				Location: C:\Program F	iles\UCG15

- <u>NOTE</u>: To access the Help System and User's Guide in the Generator Program, right click the top menu bar (then click **UCG Help**) or press F1 on your keyboard. It may also be opened by selecting UCG User Manual from the Start / All Programs menu.
 - 11. Under **Checklist Input Files**, click the check boxes next to the type of checklist(s) that you want to generate to disk.
 - 12. Click Browse to locate the checklist you created, select the checklist, then click Open.
 - 13. Repeat for each checklist created.



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Checklist Input Files - Select the checklists to be general Normal Checklist: C:\Program Files\UCG15\CheckLists\Sample\N0 Absorbed Checklist:	Browse	UNIVERSAL'AVIONICS CHECKLIST GENERATOR FMS Checklist Output
C:\Program Files\UCG15\CheckLists\Sample\ABN Emergency Checklist:	Browse	 SCN 802/902 and later SCN 801/901 and prior
C:\Program Files\UCG15\CheckLists\Sample\EM Crew Notes Checklist:	Browse	
C:\Program Files\UCG15\CheckLists\Sample\USR	Browse	UASC UCG 15.0
Output Directory C:\Program Files\UCG15\ChecklistDB\generated\	Browse	Generate Disk

14. Under **Output Directory**, click **Browse** to select the destination (either Zip or Floppy drive) of the compiled checklist files. Then click **Select**.

Checklist Input Files Normal Checklis ✓ C:\Program File Abnormal Check ✓ C:\Program File Emergency Chei C:\Program File Crew Notes Che
Normal Checkiis C:\Program File Abnormal Check C:\Program File Emergency Chei C:\Program File C:\Program File C:\Program File C:\Program File C:\Program File
Abnormal Check C:\Program File Emergency Chei C:\Program File Crew Notes Che
Emergency Chei C:\Program File Crew Notes Che
C:\Program File Crew Notes Che
Crew Notes Che
C:\Program File
Output Directory
C:\Program Files\UI Select Cancel

- 15. Under FMS Checklist Output, select the SCN for the FMS installed in your aircraft, either SCN 802/902 and later or SCN 801/901 and prior.
- 16. Under Checklist Title, the program automatically defaults to "CHECKLIST".

This is the name of the disk as it appears on the FMS Disk Load page when it is loaded into the FMS. Changes to this title can be made in this field.

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17. Similarly, the **Created By** field allows the user to type in the text that will be displayed in "Created by" field on the FMS during the disk load procedure.

💐 UNS-1 Checklist Generator 15.0 (Learjet 60)	×
Checklist Input Files - Select the checklists to be generated Normal Checklist: C:\Program Files\UCG15\CheckLists\Sample\ND Abnormal Checklist: C:\Program Files\UCG15\CheckLists\Sample\ABN Emergency Checklist: C:\Program Files\UCG15\CheckLists\Sample\EM Crew Notes Checklist: C:\Program Files\UCG15\CheckLists\Sample\USR Browse	UNIVERSAL AVIONICS CHECKLIST GENERATOR FMS Checklist Output SCN 802/902 and later SCN 801/901 and prior Checklist Title CHECKLIST Created by UASC UCG 15.0
Output Directory F:\ Browse	Generate Disk

18. Click Generate Disk to save the checklist files to the FMS load disk.

A message will be displayed prompting the user to check the output directory for the checklist files.

Verify all checklist files are on the disk, and all files have a ".00X" file extension, where "X" represents a number.

If the files have an ".err" extension, refer to Checklist Generation Errors for more information.



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19. Remove the Checklist Database Generator Program disk from the computer. The checklist is now ready for loading into the FMS via the DTU. Refer to the applicable FMS Operator's Manual or Reference Guide for loading procedures.



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Checklist Generation Errors

Should errors be detected when the Checklist is generated, an error file is generated in place of the checklist files in the selected output directory (the ZIP or floppy disk). If one or more checklists are found to contain an error, an error file is generated in place of all checklists selected.

Identify the Error

1. Navigate to the output directory/folder and **open** each of the error files (click to open in your default text editor).

If an error was found in the input checklist, the .err text file will display the number of errors in the checklist, the type of error, and the line location of the error in the checklist.

If no errors are found, the .err text file will indicate the number of errors is zero. This means that all lines in the input checklist .txt file are in the appropriate format and the checklist will generate successfully once errors have been corrected in *all* checklists.



2. To diagnose the error, refer to Error and Reporting Messages.

Correct the Error

- 3. Navigate to the checklist .txt file created from the sample checklist.
- 4. **Open** the checklist .txt file and correct the indicated errors.

Regenerate the Checklist

5. Regenerate the checklist files using the Generate Checklist procedure.



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Error and Reporting Messages

When errors are detected during the checklist generation process, an error file is generated in place of the checklist files. If an error is found in the input checklist file (the text file created from the sample checklist), one or more of the following error messages will be displayed in this error file.

Message	Cause
BL after ML	A blank line (BL) cannot follow a multiline (ML) control code. A ML control code must be followed by one or more MC control codes.
Date contains invalid day Invalid date in file	A DA line must consist of a valid date in the MM-DD- YYYY format. Only numbers are allowed and leading zeros must be used for single digit days or months.
Date contains invalid month Invalid date in file	A DA line must consist of a valid date in the MM-DD- YYYY format. Only numbers are allowed and leading zeros must be used for single digit days or months.
Date contains non-digit Invalid date in file	A DA line must consist of a valid date in the MM-DD- YYYY format. Only numbers are allowed and leading zeros must be used for single digit days or months.
Exceed limit for # of bytes allowed in the 4 C/L	The loadable database files exceed a total of 102,400 bytes.
Exceed limit for # of chapters allowed in a checklist	The checklist exceeds 99 chapters.
Exceed limit for # of characters allowed in a non TI line	The checklist exceeds 35 characters per line in an Item, Advisory Note, or Cautionary Note.
Exceed limit for # of characters allowed in a TI line	The checklist exceeds 34 characters per line in a Chapter title line.
Exceed limit for # of lines allowed in a chapter title	The checklist exceeds 2 lines in a chapter title line.
Exceed limit for # of lines allowed on a page	The checklist exceeds 16 lines on a page containing a combination of BL, AN, CN, IT, ML and MC control codes without being followed by a PA control code.
Exceed limit for # of pages allowed in a chapter	The chapter exceeds 15 pages.
Exceed limit of # of line in all 4 C/Ls	The combination of the 4 checklists exceeds 4000 lines.
First line is not DA Invalid date in file	The DA control code must appear on line 1 of each file (and only on line 1).

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Message	Cause
Input file(s) cannot be opened. No further processing can be done	The user has elected to open any one of the four files that does not exist or has not been created.
Invalid control code	There is a line in the checklist that begins with an undefined control code.
Line contains non-printable character	The user has selected a non printable character in one of the lines of the checklist.
Missing control code ED at the end of the file	The checklist doesn't have an ED control code as the last line of the file. All files must end with an ED control code.
Missing control code ML before the control code MC	ML must precede one or more consecutive MC control codes in the checklist.
Missing control code PA before ED at end of file	The checklist doesn't have a PA code before the ED code. A PA control code must directly precede the ED control code.
Missing control code TI after the control code DA	The checklist does not have a TI control code after the DA control code. The TI control code must appear on line 2 of each file.
Missing item for the page	The checklist has less than 1 checklist item (IT or ML/MC) on a page.
Missing text for the line	DA, AN, CN, TI, IT, ML and MC control code lines must all contain text.
Missing two spaces after the control code	There is a line in the checklist that doesn't have 2 spaces following the control code. Two spaces must follow all control codes.
Page contains only notes. Insert Acknowledge item	The checklist is exceeding 15 items on a page containing an AN, CN or BL control codes without being followed by a PA control code.
The 3 characters after BL are not 2 spaces and <cr></cr>	BL or PA control codes must be followed by two spaces and a carriage return.
The 3 characters after PA are not 2 spaces and <cr></cr>	BL or PA control codes must be followed by two spaces and a carriage return.
Two consecutive ML	The checklist cannot have 2 consecutive ML control codes. A ML control code must be followed by one or more MC control code lines.
Unexpected control code DA	The DA control code must appear on line 1 of each file (and only on line 1).



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<u>Message</u>

Cause

Unexpected control code MC after control code PA

MC cannot be the first control code after a page line. Multiline items cannot be continued on the next page.

Example Pro Line 4 MFD Displays

Checklist Preamble Example



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Emergency Checklist Example #1



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Emergency Checklist Example #3



Emergency Checklist Example #4



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Emergency Checklist Example #5



