: AG̈E-Review ̈&$$) Cover Sheet

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Review ID:		Ŝã^ÁŌ˘ &¦^K	ŽŒ̈ÈÒÒ̈K	DO-178 Level:	
Review Type:		ACM Project:		Rework Effort (hours):	
Produced:		ACM Subproject:		Closure Effort (hours):	

Ü^çã¸: Date | Time		Meeting Duration:		Moderator Closure →
Ü^çã¸ ̈Š[&æä}:		# Ü^çã¸ Participants:		**APPROVED** *By Leon Jiang at 3:31 pm, Jun 08, 2013*
Ō[}-^¦^}&^ÄÜ[[{ K		Date Complete:		Audit: Stamp Here
Telephone | Participant Code:		Review Status: (result of review)		

Work Product Type(s): ·····························**Supporting ̈Aaterial(s) / Comments:**

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Work Products Under Review

Reuse Scope:

Problem Report	File Name	File Version	Review Size	Size Units	Approved Version

Participants

Name	Function (discipline)/ Responsibility	Review Time (hours)	Role in review	Attend	Will Close	Signature check complete
						REVIEWED *By E800858 at 5:00 pm, Apr 07, 2013*
						REVIEWED *By Leon Jiang at 3:29 pm, Jun 08, 2013*
						REVIEWED *By Zhou Xiong at 2:22 pm, Jun 08, 2013*

Assignee's signature (stamp) confirms that a review was performed and any action Items and markups were incorporated or dispositioned.
Participant's signature (stamp) confirms participation in the review. A lack of signature (stamp) indicates nonparticipation.
Moderator's signature (stamp) indicates record is complete.
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Coversheet Continued

Name	Function (discipline)/ Responsibility	Review Time (hours)	Role in review	Attend	Will Close	Signature check complete

Change Category: PROBLEM   SCR No.: P 17011.01
SCR Status: SEC   SCR Status Date: 19-MAY-2013
Originator: Deanna Meloche   Date Originated: 17-MAY-2013
Affected Area: VGUIDE   Customer No.:
Assignee: Dun, Qing   Priority: 3
Verification Assignee: Jiang Guan Lan
Found in Configuration: MDXX_SRD_REV_007   Hardcopy Attachment: None
Target Configuration: MD11_922_TST

Planned Impact: Test
Found During: HI Other

SCR Copied To: < None Entered >

SCR Copied From: < None Entered >

SCR Reissued To: < None Entered >

SCR Reissued From: < None Entered >

Title: Alt Tgt in Des - Requirements Clarification

Description:

VG_MDXX_ALT_TGT_PFD.SRD anchor 7006 needs clarification.
7004 states the altitude target shall be the VG Ref Altitude while not on
path.
7006 states the altitude target shall be the max of VG Target Altitude and
Descent Target Altitude while on path.
7006 is wrong, there is no such thing as "VG Target Altitude", it should be VG
Reference Altitude.
Using VG Target Altitude in 7006 is confusing and should be changed.

SRB Reviewed By: O'Connor, Michael   Date: 17-MAY-2013

Analysis/Solution:

<17-May-2013>[E800858-HTSC]
Updated CTP_MD11_VG_SEL_ALT_TGT for MD11 on bulid 922_604.
TDF(Gen=2)
1. Renumber the TESTID as the same TESTID
2. Added TCs 32-33 to test the anchor VGUIDE_SRD_7006 as per SCR 17011.00
3. Modify TC 15 to test the anchor VGUIDE_SRD_7006 as per SCR 17011.00
ZIP(Gen=4)
1. Update Rst, Rpt file.
2. Added DSP file

Elements Affected:

```
  Doc.     Element                               Generation
  TEST     CTP_MD11_VG_SEL_ALT_TGT.TDF           2
  TEST     CTP_MD11_VG_SEL_ALT_TGT.ZIP           4

         ASSIGNEE: Dun, Qing                  Date: 20-MAY-2013
         VERIFIER:                            Date:
    CCB COORDINATOR:                          Date:
```

Closure Category: Fixed/Added   Duplicate SCR No.: 00000.00

Project Status: Done
Addendum:
Visual Review Info:
Cert/Sys Concern: 0   - CC1/S1 None/Level 1
Cust Notification: 0   - CN1 None
Expected Inservice: 0   - I1 Not expected to occur in-service
Flight Deck Effect: 0   - FD1 None
Non Customer Input: 0   - P1 None
Workload Wrkaround: 0   - W1 No Workaround Necessary
Must Fix: 0   - MF1 Use Score
Score/Meeting:
Score Comment:
Closed in Config.: MD11_922_TST

Component Test Procedure (CTP) Checklist (CTP_CHECKLIST_WORD.doc 10/24/07)	ACM Project:	FMS2000
	ACM Sub-Project:	MDXX
	SCR Number:	
	Affected Area:	TESTS

Overview: CTPs are generated to verify an individual software element or group of elements properly implement requirements the software element(s) trace to. Use this checklist to inspect test cases and associated test procedures, drivers, and stubs against requirements the software element(s) implement. The CTP(s) are verified to conform to standards, and fully test requirements with appropriate structural coverage. The associate tracing data and test coverage analysis/disposition data (if any) is also verified.

Misc Info Reference: FMS Test Process C71-5780-043, Section 5.

Yes   No   N/A   Administrative

1. Do the CTPs elements follow the standard naming conventions?

   CTP_<A/C>_<FAREA>_<FUNC-NAME>.TDF file – CTP Test Definition File
   CTP_< A/C >_<FAREA>_< FUNC-NAME >.ZIP file – miscellaneous test related files
   CTP_< A/C >_<FAREA>_< FUNC-NAME>.TRT file – CTP Trace file(Core only)

   CTP elements configured in the CM tool:

2. Is *.TDF file – CTP Test Definition File present?

3. Is *.ZIP file present?

4. Is *.TRT file – CTP Trace file present (Core only)?

   Review Packet information details:

5. Is SCR Number and a copy of the SCR (Sec state) present?

6. Is TDF, TRT(If present), ZIP files with correct generation information present?

7. Support files (SRD, SDD, and Checklist) with Generation information.

8. Does the review packet contain a difference listing of the old test to the new test and are the differences limited to the changes specified in this SCR?

9. Is the version of the material under review and supporting material correct for the SCR(s)?

10. Has the material/version been identified on the cover sheet of the review packet (may reference SCR)?

11. Have all SCR fields (e.g. Analysis/Solution) been filled out properly?

Yes   No   N/A   TDF (CTP Test Definition File)

Does the TDF header include the following fields:

12. Does the TDF header include the following fields:

- Filename

- Title

- Author

- Creation Date

- Modification History

- Source

- Description of TDF

13. Is the SCR number and description updated for this SCR?

14. Does the TDF header include a unique ANCHOR name for this CTP?

15. Is the list of SRD/SDD element references (and their generation numbers) updated and correct? (including formatting of this information)

Yes   No   N/A   ZIP File (CTP Related Miscellaneous Files)

16. Does the ZIP file contain the updated necessary test files ?

- *.BAT

- ~~*.CUL~~ (*.DPN)

- *.DRV

- ~~*.VER~~ (*.RST)

- *.RPT

- Optional files: STB, DSP, and INC (if necessary).

- Has the *.CUL file been updated to show the correct span of source code procedures/functions that are being tested by this CTP?

Yes   No   N/A   TRT File (Core only)

17. Does the TRT header include the following fields:

- Filename

- Title

- Author

- Creation Date

- Modification History

- Is the modification history with date, author, SCR number, and description updated?

18.   Has the traceability matrix been updated/verified (trace to the correct requirements)??

Yes   No   N/A   Test Case Design

19. Are the test case ID numbers present in sequential order?

20. Does the test script have test case descriptions which describe the objectives, intent, and operation for each test case?

21. Are all the allocated requirements tested?

22. If anchor is found to be a bad trace or vague/ambiguous, has it been disposed with a reference SCR.

23. Does the test case description section of each test case identify the specific requirements (SRD anchors) that are being tested?

24. Does the test case description section of each test case identify the specific requirements (SRD anchors) that are supporting requirements?

25. To ensure robust testing, are all test cases inputs set with at least 2 different values?

26. To ensure robust testing, are boundary conditions and tolerances tested where ever applicable?

Component Test Procedure (Ctp) Checklist

Yes   No   N/A   Test Case Design con't

27. Coverage Levels – Has every point of entry and exit in the program been invoked at least once?

28. Coverage Levels – Has every decision in the program taken on all possible outcomes at least once?

29. Coverage Levels – Has every condition in a decision in the program taken on all possible outcomes at least once?

30. Coverage Levels – Has every condition in a decision been shown to independently affect that decision's outcome? A condition is shown to independently affect a decision's outcome by varying just that condition while holding fixed all other possible conditions.

31. Data Coupling – Are there test cases which exercise "data coupling" between software modules (i.e., the dependence of a software component on data not exclusively under the control of that software component)?

32. Data Coupling – Are there test cases which exercise "control coupling" between software modules (i.e., the manner or degree by which one software component influences the execution of another software component)?

33. Error Guessing - Do areas in the software known to have complex algorithms have a sufficient number of test cases to ensure they are working as expected?

34. Error Guessing - Do areas in the software associated with complex requirements have a sufficient number of test cases to ensure they are working as expected?

35. Outputs - Are all test case outputs measured for at least two different values?

36. Outputs - Have variables with expected output values been initialized to other values before input to the test process (e.g., If a variable is expected to have an output result of TRUE, is the input state of this variable set to FALSE before executing the test case?)

37. Coverage Analysis - Are the entire test paths covered as per the structural coverage requirements mandated for Flight Management Systems? If not, are such structural coverage deficiencies dispositioned? If not determined to be a tool problem, then the disposition must reference to an SCR.

38. Coverage Analysis - For uncovered requirements, is there another test that provides the coverage?

39. Has the Test name and Anchor required if one exists, been identified? If not, has an SCR been written and the SCR number referenced?

40. Coverage Analysis – Have all the failures been analyzed and disposed appropriately in the DSP quoting a correct SCR number documenting the reason for the failures.

Yes   No   N/A   Polymorphism Related Issues (C++)

41. Has the code under test been examined for the existence of dynamic dispatch (can be determined by virtual functions in the code or a virtual table in the assembly code)?

42. Does each test case appearing in the set of test cases associated with a class appear in the set of test cases associated with each of its subclasses?

43. If dynamic dispatch is involved in the execution of a function, is the method separately tested in the context of every concrete class in which it appears, irrespective of whether it is defined by the class or inherited by it?
An exception is made for simple get and set methods that only assign a value to, or return the value of an attribute or association. Such methods need only be tested once, in the context of the defining class.

44. Are errors dispositioned to an SCR or has the test been updated?

Yes   No   N/A   Other

45. Are all defects identified by the previous questions?

N N/A Justification Box

Mode: All Lines
Left base folder: D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT\old
Right base folder: D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT

File: CTP_MD11_VG_SEL_ALT_TGT.BAT

```
 1      1  ECHO OFF
 2      2  REM
 3      3  REM    BAT File
 4      4  REM
 5      5  REM    CTP_MD11_VG_SEL_ALT_TGT.BAT
 6      6  REM
 7      7  ECHO ON
 8      8  ECHO Building Library
 9      9  %build_lib% FM
10     10  ECHO Compiling
11     11  %acomp% CTP_MD11_VG_SEL_ALT_TGT.DRV
12     12  ECHO Linking
13     13  %alink% CTP_MD11_VG_SEL_ALT_TGT
14     14  ECHO Running
15     15  %runtgs% CTP_MD11_VG_SEL_ALT_TGT y
16     16  ECHO  CTP_MD11_VG_SEL_ALT_TGT Completed Execution
```

Beyond Compare 2.1.1

File: CTP_MD11_VG_SEL_ALT_TGT.DPN

1	1	## Coverage file for CTP_MD11_VG_SEL_ALT_TGT
2	2	## the following packages, procedures and functions
3	3	## are covered by this test.
4	4	## All names must be in uppercase.
5	5	VG_EIS_ALTITUDE_TARGET_PKG
6	6	VG_EIS_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGETS
7	7	VG_FCC_ALTITUDE_TARGET_PKG
8	8	VG_FCC_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGET
9	9	##

File: CTP_MD11_VG_SEL_ALT_TGT.DRV

```
   1    1 --              PEGASUS COMPONENT TEST DRIVER
   2    2 --
   3    3 --   COMPONENT: VG_ALTITUDE_TARGET_PKG
   4    4 --
   5    5 --
   6    6 package Test_VG_SELECT_ALT_TARGET is
   7    7
   8    8 -- Global test variables go here
   9    9 ----------------------------------------------------------------------
  10   10 -- This variable added in order to call VG_FCC_ALTITUDE_TARGET_PKG.ADA
  11   11 -- to check that the vertical guidance altitude target is in fact the
  12   12 -- vertical guidance reference altitude
  13   13 ----------------------------------------------------------------------
  14   14 test_for_FCC_call : Boolean;
  15   15
  16   16
  17   17 end Test_VG_SELECT_ALT_TARGET;
  18   18 --
  19   19 --
  20   20 --
  21   21 with VG_EIS_ALTITUDE_TARGET_PKG;
  22   22 with VG_FCC_ALTITUDE_TARGET_PKG;
  23   23 with Test_VG_SELECT_ALT_TARGET;
  24   24 with Vg_Ac_Unique_Pkg;
  25   25
  26   26 use  Test_VG_SELECT_ALT_TARGET;
  27   27
  28   28  procedure ctp_MD11_VG_SEL_ALT_TGT_d is
  29   29
  30   30
  31   31  begin
  32   32
  33   33 VG_EIS_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGETS;
  34   34
  35   35
  36   36  if (Test_VG_SELECT_ALT_TARGET.test_for_FCC_call) then
  37   37    VG_FCC_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGET;
  38   38  end if;
  39   39
  40   40
  41   41  <<testend>>  NULL;
  42   42
  43   43  end ctp_MD11_VG_SEL_ALT_TGT_d;
```

File: CTP_MD11_VG_SEL_ALT_TGT.DSP

```
 1 ##
 2 ##    DSP File
 3 ##
 4 ##    CTP_MD11_VG_SEL_ALT_TGT.DSP
 5 ##
 6
 7     1. REASON FOR FAILURES OF TEST CASES
 8
 9       N/A
10
» 
11 --------------------------------------------------------
12
13     2. REASON FOR NOT GETTING 100% COVERAGE
14
15 SubUnit: VG_EIS_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGETS
16 [235-46 JMPF]Decision ending on line 115 ONLY taken.
17   .  115            if Vg_Ac_Unique_Pkg.Altitude_Bug_Allowed then
18   *  116               Vg_Outputs_Int_Dpkg.Nxtalttgtv := (Vg_Only_Int_Dpkg.Destgtalt
»  /= Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude);
19
20 [235-50 LABEL]Lines 117 - 118 not executed.
21     117            else
22     118               Vg_Outputs_Int_Dpkg.Nxtalttgtv := False;
23
24
25       TCH (Test Coverage Hole) Excuse :<one_path_possible>
26                            Analysis of the code has shown that only one p
»  ath of this branch
27                            can be taken as the necessary conditions for t
»  he other path are logically impossible.
28
29       Vg_Ac_Unique_Pkg.Altitude_Bug_Allowed always return ture so that only one pat
»  h of this branch can be taken.
30
31
32 --------------------------------------------------------
33
34     3. ANY OTHER ISSUES
35
36       N/A
```

File: CTP_MD11_VG_SEL_ALT_TGT.rpt

```
  1    1    ##########################################################
  2    2    #                                                        #
  3    3    #              Test Coverage Analyzer                    #
  4    4    #            Short Summary Coverage Report               #
  5    5    #                                                        #
  6    6    ##########################################################
  7    7
  8             Tue Oct 23 17:07:08 China Standard Time 2012
       8         Thu Apr 25 15:33:26 China Standard Time 2013
  9    9
 10   10     Test Coverage Analyzer (TCA)  V6.13 CLASS A ps4082880-121
 11          Win32 Host: WinNT 5.1 Build 2600  UserID: E801455  Node: CH71DT7QL763X (Intel Pen
        » tPro Model 42 Step 7)
 12          Current Dir: D:\Exercise and task\VG\New Folder\CTP_MD11_VG_SEL_ALT_TGT
       11     Win32 Host: WinNT 5.1 Build 2600  UserID: E800858  Node: CH71DT34Z873X (Intel Pen
        » tPro Model 42 Step 7)
       12      Current Dir: D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT
 13   13
 14   14  --------------------------------------------------------------------------------
 15       TCA invoked Tue Oct 23 17:07:06 China Standard Time 2012 with command line:
       15 TCA invoked Thu Apr 25 15:33:24 China Standard Time 2013 with command line:
 16   16     TCA.exe -TABS -r CTP_MD11_VG_SEL_ALT_TGT.rpt -s -type 3 -p ...
 17   17     CTP_MD11_VG_SEL_ALT_TGT_d.pth -x CTP_MD11_VG_SEL_ALT_TGT.xin -c ...
 18   18     CTP_MD11_VG_SEL_ALT_TGT.cul --ignore=i,g,h
 19   19  --------------------------------------------------------------------------------
 20   20  Expanded command line:
 21   21     TCA.exe -TABS -r CTP_MD11_VG_SEL_ALT_TGT.rpt -s -type 3 -p ...
 22   22     CTP_MD11_VG_SEL_ALT_TGT_d.pth -x CTP_MD11_VG_SEL_ALT_TGT.xin -c ...
 23   23     CTP_MD11_VG_SEL_ALT_TGT.cul --ignore=i,g,h
 24   24  --------------------------------------------------------------------------------
 25   25
 26   26
 27   27  Test Coverage Type: 3
 28   28
 29   29  Report File Name  : CTP_MD11_VG_SEL_ALT_TGT.rpt
 30   30
 31   31  Paths file(s) :
 32   32
 33          (P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth   Tue Oct 23 17:06:36 2012
       33    (P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth   Thu Apr 25 15:32:39 2013
 34   34           HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9, PS4078711-104
 35   35           HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9.61, PS4082845-107
 36   36           Honeywell 29K Assembler, V3.6, PS4072677-112
       37           Honeywell 29K Assembler, V2.4, PS4072677-105
 37   38           HADS-290x0 (PC/Windows NT) Ada Linker, Version 2.9.61, PS4082846-109
 38   39
 39   40  XInfo file(s)   Test Date   Test Platform:
 40   41
 41   42    (P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth
 42          (X01) CTP_MD11_VG_SEL_ALT_TGT.xin   Tue Oct 23 17:06:44 2012    ISS TCA Xinfo,
        » Platform V7.02.04
       43      (X01) CTP_MD11_VG_SEL_ALT_TGT.xin   Thu Apr 25 15:32:51 2013   ISS TCA Xinfo,
        » Platform V7.02.04
 43   44
 44   45  --------------------------------------------------------------------------------
 45   46     Compilation                     Test Coverage Statistics       Warnings
 46   47     Unit Name              Total Decision Cond Statemnt Block  Mixed Bool
 47   48  -------------------------  ---------------------------------- ----------
 48   49  VG_FCC_ALTITUDE_TARGET_PKG -
 49          .SELECT_ALTITUDE_TARGET        91.7    75.0   n/a   100.0  100.0     1    0
```

File: CTP_MD11_VG_SEL_ALT_TGT.rpt (continued)

L	R	Content
50		3/4 n/a 5/5 47/47
	50	.SELECT_ALTITUDE_TARGET 100.0 100.0 n/a 100.0 100.0 1 0
	51	4/4 n/a 5/5 50/50
51	52	
52	53	VG_FCC_ALTITUDE_TARGET_PKG 100.0 NONE n/a NONE 100.0 0 0
53	54	0/0 n/a 0/0 2/2
54	55	
55	56	VG_EIS_ALTITUDE_TARGET_PKG -
56	57	.SELECT_ALTITUDE_TARGETS 96.9 95.0 n/a 97.3 98.6 0 0
57	58	19/20 n/a 36/37 68/69
58	59	
59	60	VG_EIS_ALTITUDE_TARGET_PKG 100.0 NONE n/a NONE 100.0 0 0
60	61	0/0 n/a 0/0 2/2
61	62	
62	63	--
63		Total Percentages 91.7 n/a 97.6 99.2
64		Totals 22/24 n/a 41/42 119/120
65		Total Coverage 96.2
	64	Total Percentages 95.8 n/a 97.6 99.2
	65	Totals 23/24 n/a 41/42 122/123
	66	Total Coverage 97.5
66	67	--
67	68	□
68	69	**
69	70	
70	71	Test Coverage Analyzer (TCA) Version 6.13 CLASS A
71	72	
72	73	**
73	74	
74	75	Coverage Type: 3
75	76	
76	77	Date of report / Report name :
77	78	
78		Tue Oct 23 17:07:08 2012 CTP_MD11_VG_SEL_ALT_TGT.rpt
	79	Thu Apr 25 15:33:26 2013 CTP_MD11_VG_SEL_ALT_TGT.rpt
79	80	
80	81	Current Directory:
81	82	
82		D:\Exercise and task\VG\New Folder\CTP_MD11_VG_SEL_ALT_TGT
	83	D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT
83	84	
84	85	Paths file(s) :
85	86	
86		(P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth Tue Oct 23 17:06:36 2012
	87	(P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth Thu Apr 25 15:32:39 2013
87	88	HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9, PS4078711-104
88	89	HADS-290x0 (PC/Windows NT) Ada Compiler, Version 2.9.61, PS4082845-107
89	90	Honeywell 29K Assembler, V3.6, PS4072677-112
	91	Honeywell 29K Assembler, V2.4, PS4072677-105
90	92	HADS-290x0 (PC/Windows NT) Ada Linker, Version 2.9.61, PS4082846-109
91	93	
92	94	XInfo file(s) Test Date Test Platform:
93	95	
94	96	(P01) CTP_MD11_VG_SEL_ALT_TGT_d.pth
95		(X01) CTP_MD11_VG_SEL_ALT_TGT.xin Tue Oct 23 17:06:44 2012 ISS TCA Xinf » o, Platform V7.02.04
	97	(X01) CTP_MD11_VG_SEL_ALT_TGT.xin Thu Apr 25 15:32:51 2013 ISS TCA Xinf » o, Platform V7.02.04
96	98	
97	99	Source file(s) :

File: CTP_MD11_VG_SEL_ALT_TGT.rpt (continued)

98	100	
99		C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA
100		C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
	101	C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA
	102	C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
101	103	
102	104	Total Coverage statistics :
103	105	
104		TYPE 3, 96.2%
	106	TYPE 3, 97.5%
105	107	
106	108	
107	109	**
108	110	Source Report Legend Key
109	111	(Legend Key may be suppressed by -k option)
110	112	
111	113	Coverage messages preceding source code lines are annotated with
112	114	object code block tags of the form [x-y BLOCKTYPE]. For example,
113	115	[263-17 JMPT] is a block tag for the 17th block of the 263rd unit
114	116	in the pathsfile and is a jump true block.
115	117	This block tag annotation is intended to be used as a reference to
116	118	the object code level block report (.tcb) generated with the -B option.
117	119	Each object code block is labeled with a unique block tag.
118	120	
119	121	Each line of source code may be prefixed by one of the following
120	122	indicators:
121	123	. = source line completely or partially executed
122	124	* = source line shown ONLY to clarify previous source lines and
123	125	is NOT actually part of the uncovered source TCA is reporting on
124	126	Note that no prefix indicates source line was not executed
125	127	
126	128	
127	129	**
128	130	
129	131	Compilation Unit / Source file :
130	132	
131	133	VG_FCC_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGET
132		C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
	134	C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
133	135	
134	136	Coverage statistics :
135	137	
136		TYPE 3, 91.7%
	138	TYPE 3, 100.0%
137	139	
138	140	Executed Total
139		Decision Paths 3 4
	141	Decision Paths 4 4
140	142	Condition Paths n/a n/a
141	143	Statements 5 5
142		Blocks 47 47
	144	Blocks 50 50
143	145	
144	146	
145		....
146		SubUnit: VG_FCC_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGET
147		[231-11 JMPT]Decision ending on line 59 ONLY taken.
148		. 59 (abs (Vg_Only_Int_Dpkg.Vgrefalt - Vg_Outputs_Int_Dpkg.Vgalttgt)
		» <= 100.0)) then
149		* 60

File: CTP_MD11_VG_SEL_ALT_TGT.rpt (continued)

```
150 |     |  *    61        Vg_Outputs_Int_Dpkg.Vgalttgt := Vg_Only_Int_Dpkg.Vgrefalt;
151 | 147 |
152 |     |
153 |     |
154 | 148 |***********************************************************************
155 | 149 |
156 | 150 |Compilation Unit / Source file :
157 | 151 |
158 | 152 |        VG_FCC_ALTITUDE_TARGET_PKG
159 |     |        C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
    | 153 |        C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_FCC_ALTITUDE_TARGET_PKG.ADA
160 | 154 |
161 | 155 |Coverage statistics :
162 | 156 |
163 | 157 |        TYPE 3, 100.0%
164 | 158 |
165 | 159 |                        Executed          Total
166 | 160 |        Decision Paths       0              0
167 | 161 |        Condition Paths     n/a            n/a
168 | 162 |        Statements           0              0
169 | 163 |        Blocks               2              2
170 | 164 |
171 | 165 |
172 | 166 |
173 | 167 |***********************************************************************
174 | 168 |
175 | 169 |Compilation Unit / Source file :
176 | 170 |
177 | 171 |        VG_EIS_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGETS
178 |     |        C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA
    | 172 |        C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA
179 | 173 |
180 | 174 |Coverage statistics :
181 | 175 |
182 | 176 |        TYPE 3,  96.9%
183 | 177 |
184 | 178 |                        Executed          Total
185 | 179 |        Decision Paths      19             20
186 | 180 |        Condition Paths     n/a            n/a
187 | 181 |        Statements          36             37
188 | 182 |        Blocks              68             69
189 | 183 |
190 | 184 |
191 | 185 |......................................................................
192 | 186 |SubUnit: VG_EIS_ALTITUDE_TARGET_PKG.SELECT_ALTITUDE_TARGETS
193 |     |[235-46 JMPF]Decision ending on line 115 ONLY taken.
    | 187 |[4206-46 JMPF]Decision ending on line 115 ONLY taken.
194 | 188 |  .    115          if Vg_Ac_Unique_Pkg.Altitude_Bug_Allowed then
195 | 189 |  *    116             Vg_Outputs_Int_Dpkg.Nxtalttgtv := (Vg_Only_Int_Dpkg.Destgtalt
    |     | »  /= Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude);
196 | 190 |
197 |     |[235-50 LABEL]Lines 117 - 118 not executed.
    | 191 |[4206-50 LABEL]Lines 117 - 118 not executed.
198 | 192 |       117          else
199 | 193 |       118             Vg_Outputs_Int_Dpkg.Nxtalttgtv := False;
200 | 194 |
201 | 195 |
202 | 196 |
203 | 197 |***********************************************************************
204 | 198 |
```

File: CTP_MD11_VG_SEL_ALT_TGT.rpt (continued)

205	199	Compilation Unit / Source file :
206	200	
207	201	VG_EIS_ALTITUDE_TARGET_PKG
208		~~C:\BUILDS\md11\922_408\SRC_922_408\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA~~
	202	C:\BUILDS\md11\922_604\SRC_922_604\fm\VG_EIS_ALTITUDE_TARGET_PKG.ADA
209	203	
210	204	Coverage statistics :
211	205	
212	206	TYPE 3, 100.0%
213	207	
214	208	Executed Total
215	209	Decision Paths 0 0
216	210	Condition Paths n/a n/a
217	211	Statements 0 0
218	212	Blocks 2 2
219	213	
220	214	
221	215	
222	216	*************************** End of Report ***************************

Beyond Compare 2.1.1

File: CTP_MD11_VG_SEL_ALT_TGT.rst

```
  1|  1|
  2|  2|
  3|  3|                                    RESULTS FILE
  4|  4|
  5|  5|  ********************************************************************************
  6|  6|                                Test Results Summary
  7|  7|
  8|  8|              Percentage of Comparisons Passed    : 100.0000%
  9|  9|
 10| 10|              Total Number of Comparisons Failed  : 0
 11| 11|              Total Number of Unknown Comparisons : 0
 12|   |              Total Number of Comparisons Passed  : 87
 13|   |              Total Number of Comparisons         : 87
 14|   |              Total Number of Test Cases Included : 31
   | 12|              Total Number of Comparisons Passed  : 89
   | 13|              Total Number of Comparisons         : 89
   | 14|              Total Number of Test Cases Included : 33
 15| 15|
 16| 16|              Test Complete
 17| 17|
 18| 18|
 19| 19|
 20| 20|  ********************************************************************************
 21| 21|
 22| 22|
 23|   |  Test Start Time: Oct 23 17:06:45 2012
   | 23|  Test Start Time: Apr 25 15:32:52 2013
 24| 24|
 25| 25| FILE:                    CTP_MD11_VG_SEL_ALT_TGT.TDF
 26| 26|
 27| 27| TITLE:                   Vertical Guidance Select Altitude Target
 28| 28|
 29| 29| SOURCE CONFIGURATION:    ISS
 30| 30|
 31| 31| AUTHOR:                  Keith Scherrer
 32| 32|
 33| 33| TRANSLATED BY:           Gerald J. Molczyk / David M. Hall    DATE: 06-Jun-97
 34| 34|
 35| 35| MODIFIED BY:             Dennis Kenney / David M. Hall / Christian Sarraf
 36| 36|
 37| 37| PACKAGE:                 VG_ALTITUDE_TARGET_PKG
 38| 38|
 39| 39| PROCEDURE:               SELECT_ALT_TARGET
 40| 40|
 41| 41| PURPOSE:                 This test is to verify that the Next Altitude Target
 42| 42|                          and Altitude Tape Target are correctly selected for
 43| 43|                          each operational scenario.
   | 44|
   | 45| -- -- ----------------------------------------------------------------
   | 46| MODIFIED BY              :  DUN, QING
   | 47| DATE                     :  25 APR 2013
   | 48| CHECKED UNDER SCR        :  17011.01
   | 49| BUILD  USED              :  MD11_922_604
   | 50| SRD NAME & VERSION   :  VG_MDXX_ALT_TGT_PFD.SRD, 6
   | 51| MODIFICATIONS            :  1. Renumber the TESTID as the same TESTID
   | 52|                             2. Added TCs 32-33 to test the anchor VGUIDE_SRD_7006 as p
   |   | » er SCR 17011.00
   | 53|                             3. Modify TC 15 to test the anchor VGUIDE_SRD_7006 as per
   |   | » SCR 17011.00
   | 54|
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
      | 55 | -- -- -----------------------------------------------------------------------
   44 | 56 |
   45 | 57 | -- -- -- NOTES:
   46 | 58 | -- -- -- (1) Original Script:
   47 | 59 | -- -- --       Element Name:     VGSELALTTGT.PAS
   48 | 60 | -- -- --       Last Modified:    16-AUG-1994 10:46:38.64
   49 | 61 | -- -- --       Author Name:      Keith Scherrer
   50 | 62 | -- -- --
   51 | 63 | -- -- -- (2) Revision History:
   52 | 64 | -- -- --       Element Name:   CTP_VG_SELECT_ALT_TARGET.TDF
   53 | 65 | -- -- --       Translated:     06-JUN-1997
   54 | 66 | -- -- --       Translators:    Gerald J. Molczyk / David M. Hall
   55 | 67 | -- -- --       NOTES:          Ported from scaled Pascal to Ada. Revised for the
   56 | 68 | -- -- --                       MD11 program.
   57 | 69 | -- -- --
   58 | 70 | -- -- -- (3) Revision History:
   59 | 71 | -- -- --       Element Name:   CTP_717_VG_SELECT_ALT_TGT.TDF
   60 | 72 | -- -- --       Last Modified:  24-SEP-1998
   61 | 73 | -- -- --       Modified by::   Dennis Kenney / David M. Hall / Christian Sarraf
   62 | 74 | -- -- --       NOTES:          Revised for the MDXX program.
   63 | 75 | -- -- --
   64 | 76 | -- -- -- (4) Revision History:
   65 | 77 | -- -- --       Element Name:   CTP_MD10_VG_SEL_ALT_TGT.TDF
   66 | 78 | -- -- --       Last Modified:  24-JUL-1999
   67 | 79 | -- -- --       Modified by:    Christian Sarraf
   68 | 80 | -- -- --       NOTES:          Revised for the MD10 program.
   69 | 81 | -- -- --
   70 | 82 | -- -- -- (5) Revision History:
   71 | 83 | -- -- --       Element Name:   CTP_717C2_VG_SEL_ALT_TGT.TDF
   72 | 84 | -- -- --       Last Modified:  20-Feb-2000
   73 | 85 | -- -- --       Modified by:    Christian Sarraf
   74 | 86 | -- -- --       NOTES:          Revised for the 717C2 program.
   75 | 87 | -- -- --
   76 | 88 | -- -- -- (6) Revision History:
   77 | 89 | -- -- --       Element Name:   CTP_MD11_VG_SEL_ALT_TGT.TDF
   78 | 90 | -- -- --       Last Modified:  29-Jun-2000
   79 | 91 | -- -- --       Modified by:    Christian Sarraf
   80 | 92 | -- -- --       NOTES:          Revised for the MD11 program.
   81 | 93 |
   82 | 94 |
   83 | 95 | TRACEABILITY TO REQUIREMENTS/CODE:
   84 | 96 |
   85 | 97 | -- -- -- ANCHOR  : MD11_VG_TEST_2059
   86 | 98 | -- -- -- SOURCE  : VGUIDE_SRD_7000
   87 | 99 |
   88 |100 | -- -- -- ANCHOR  : MD11_VG_TEST_2057
   89 |101 | -- -- -- SOURCE  : VGUIDE_SRD_7002
   90 |102 |
   91 |103 | -- -- -- ANCHOR  : MD11_VG_TEST_2018
   92 |104 | -- -- -- SOURCE  : VGUIDE_SRD_7003
   93 |105 |
   94 |106 | -- -- -- ANCHOR  : MD11_VG_TEST_3830
   95 |107 | -- -- -- SOURCE  : VGUIDE_SRD_7004
   96 |108 |
   97 |109 | -- -- -- ANCHOR  : MD11_VG_TEST_3831
   98 |110 | -- -- -- SOURCE  : VGUIDE_SRD_7006
   99 |111 |
  100 |112 | -- -- -- ANCHOR  : MD11_VG_TEST_2019
  101 |113 | -- -- -- SOURCE  : VGUIDE_SRD_7007
  102 |114 |
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
103    115 -- -- -- ANCHOR  : MD11_VG_TEST_3832
104    116 -- -- -- SOURCE  : VGUIDE_SRD_7008
105    117
106    118 -- -- -- ANCHOR  : MD11_VG_TEST_3833
107    119 -- -- -- SOURCE  : VGUIDE_SRD_7009
108    120
109    121 -- -- -- ANCHOR  : MD11_VG_TEST_2020
110    122 -- -- -- SOURCE  : VGUIDE_SRD_7010
111    123
112    124 -- -- -- ANCHOR  : MD11_VG_TEST_3834
113    125 -- -- -- SOURCE  : VGUIDE_SRD_7011
114    126
115    127 -- -- -- ANCHOR  : MD11_VG_TEST_3835
116    128 -- -- -- SOURCE  : VGUIDE_SRD_7012
117    129
118    130 -- -- -- ANCHOR  : MD11_VG_TEST_3836
119    131 -- -- -- SOURCE  : VGUIDE_SRD_7013
120    132
121    133 -- -- -- ANCHOR  : MD11_VG_TEST_3837
122    134 -- -- -- SOURCE  : VGUIDE_SRD_7015
123    135
124    136 -- -- -- ANCHOR  : MD11_VG_TEST_3838
125    137 -- -- -- SOURCE  : VGUIDE_SRD_7017
126    138
127    139 -- -- -- ANCHOR  : MD11_VG_TEST_1178
128    140 -- -- -- SOURCE  : VGUIDE_SRD_2902
129    141
130    142 -- -- -- ANCHOR  : MD11_VG_TEST_1104
131    143 -- -- -- SOURCE  : VGUIDE_SRD_8005
132    144
133    145 -- -- -- ANCHOR  : MD11_VG_TEST_1278
134    146 -- -- -- SOURCE  : VGUIDE_SRD_5205
135    147
136    148 -- -- -- ANCHOR  : MD11_VG_TEST_1202
137    149 -- -- -- SOURCE  : VGUIDE_SRD_5206
138    150
139    151 -- -- -- ANCHOR  : MD11_VG_TEST_1357
140    152 -- -- -- SOURCE  : VGUIDE_SRD_3041
141    153
142    154 -- -- -- ANCHOR  : MD11_VG_TEST_1303
143    155 -- -- -- SOURCE  : VGUIDE_SRD_5304
144    156
145    157 -- -- -- ANCHOR  : MD11_VG_TEST_1417
146    158 -- -- -- SOURCE  : VGUIDE_SRD_3026
147    159
148    160 -- -- -- ANCHOR  : MD11_VG_TEST_1403
149    161 -- -- -- SOURCE  : VGUIDE_SRD_5618
150    162
151    163 -- -- -- ANCHOR  : MD11_VG_TEST_1513
152    164 -- -- -- SOURCE  : VGUIDE_SRD_2837
153    165
154    166 -- -- -- ANCHOR  : MD11_VG_TEST_1503
155    167 -- -- -- SOURCE  : VGUIDE_SRD_5655
156    168
157    169 -- -- -- ANCHOR  : MD11_VG_TEST_3282
158    170 -- -- -- SOURCE  : VGUIDE_SRD_3072
159    171
160    172 -- -- -- ANCHOR  : MD11_VG_TEST_3283
161    173 -- -- -- SOURCE  : VGUIDE_SRD_3103
162    174
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
163   175 -- -- -- ANCHOR  : MD11_VG_TEST_3284
164   176 -- -- -- SOURCE  : VGUIDE_SRD_3221
165   177
166   178 -- -- -- ANCHOR  : MD11_VG_TEST_3285
167   179 -- -- -- SOURCE  : VGUIDE_SRD_3150
168   180
169   181 -- -- -- ANCHOR  : MD11_VG_TEST_3286
170   182 -- -- -- SOURCE  : VGUIDE_SRD_3190
171   183
172   184 -- -- -- ANCHOR  : MD11_VG_TEST_3287
173   185 -- -- -- SOURCE  : VGUIDE_SRD_2810
174   186
175   187 -- -- -- ANCHOR  : MD11_VG_TEST_3288
176   188 -- -- -- SOURCE  : VGUIDE_SRD_2848
177   189
178   190 -- -- -- ANCHOR  : MD11_VG_TEST_3289
179   191 -- -- -- SOURCE  : VGUIDE_SRD_2891
180   192
181   193 -- -- -- ANCHOR  : MD11_VG_TEST_3899
182   194 -- -- -- SOURCE  : VGUIDE_SRD_8286
183   195
184   196 -- -- -- ANCHOR  : MD11_VG_TEST_3823
185   197 -- -- -- SOURCE  : VGUIDE_SRD_8235
186   198
187   199 -- -- -- ANCHOR  : MD11_VG_TEST_3824
188   200 -- -- -- SOURCE  : VGUIDE_SRD_8201
189   201
190   202 -- -- -- ANCHOR  : MD11_VG_TEST_3825
191   203 -- -- -- SOURCE  : VGUIDE_SRD_8152
192   204
193   205 -- -- -- ANCHOR  : MD11_VG_TEST_3826
194   206 -- -- -- SOURCE  : VGUIDE_SRD_8118
195   207
196   208 -- -- -- ANCHOR  : MD11_VG_TEST_3827
197   209 -- -- -- SOURCE  : VGUIDE_SRD_2840
198   210
199   211 -- -- -- ANCHOR  : MD11_VG_TEST_3828
200   212 -- -- -- SOURCE  : VGUIDE_SRD_5555
201   213
202   214 -- -- -- ANCHOR  : MD11_VG_TEST_3829
203   215 -- -- -- SOURCE  : VGUIDE_SRD_2894
204   216
205   217
206   218
207   219 VERIFY COMPLIANCE WITH SRD SECTION:
208   220
209   221  MD11 Vertical Guidance Altitude Target
210   222
211   223  Vertical Guidance Altitude Target (Airmass Ascent)............10.2.1.3
212   224  Vertical Guidance Altitude Target (Clb Intermediate Level)... 10.2.2.3
213   225  Vertical Guidance Altitude Target (Cruise Level)..............10.2.3.3
214   226  Vertical Guidance Altitude Target (Descent Path)..............10.2.4.3
215   227  Vertical Guidance Altitude Target (Desc Int Level)............10.2.5.3
216   228  Vertical Guidance Altitude Target (Early Descent)............10.2.6.3
217   229  Vertical Guidance Altitude Target (Late Descent)..............10.2.7.3
218   230  Vertical Guidance Altitude Target (Desc Path Overspd).........10.2.8.3
219   231  Vertical Guidance Altitude Target (HM)........................10.2.9.3
220   232  Vertical Guidance Altitude Target (Airmass Descent)...........10.2.10.3
221   233  Vertical Guidance Altitude Target (EO Takeoff)................10.2.11.3
222   234  Vertical Guidance Altitude Target (EO Takeoff Level Acc)......10.2.12.3
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
223   235  Vertical Guidance Altitude Target (Engine-out Driftdown)......10.2.13.3
224   236
225   237   Altitude Target and Next Altitude Target for Display On The PFD Altitude Tape (10.4.
           » 2)
226   238    (Altitude Target)...........................................10.4.2.1
227   239    (Next Altitude Target)......................................10.4.2.2
228   240
229   241
230   242
231   243  OVERALL TESTING APPROACH:
232   244
233   245  Tool Used:      Instruction Set Simulator
234   246
235   247  Description:    This test procedure verifies the SRD requirements for
236   248                  VG_ALTITUDE_TARGET_PKG.SELECT_ALT_TARGET. The Test Generated
237   249                  System (TGS), running under the ISS platform, was chosen to
238   250                  enable automated testing for both structural coverage and
239   251                  testing of the requirements.
240   252
241   253  Setup:          The driver CTP_MD11_VG_SEL_ALT_TGT.DRV is
242   254                  compiled and linked against the current library containing the
243   255                  library under test. Use departmental symbols and logicals to
244   256                  run this test. The minimal files needed to run this test are:
245   257                  CTP_MD11_VG_SEL_ALT_TGT.DRV,
246   258                  CTP_MD11_VG_SEL_ALT_TGT.DPN,
247   259                  CTP_MD11_VG_SEL_ALT_TGT.TDF.
248   260
249   261  Disposition:    TBD
250   262
251   263  -- -- --        BEGIN PROCESSING INCLUDE FILE C:\Program Files\honeywell_eng\TGS_v4_5
           » _2\bin\debug_cmds.inc
252   264  -- -- --        END PROCESSING INCLUDE FILE C:\Program Files\honeywell_eng\TGS_v4_5_2
           » \bin\debug_cmds.inc
253   265  -- -- -- *******************************************************************
254   266  -- -- --                    INITIALIZATION SECTION
255   267  -- -- -- *******************************************************************
256   268
257   269
258   270  CONSTANT
           »                          VALUE
259   271  --------------------------------------------------------------------------------
           » -------------  -------------------------
260   272  FP_DEF_TOL
           »                                    0.0
261   273
262   274
263   275  define symbol AIRMASSASCNT := Opproctyp_Types.AIRMASSASCNT
264   276  define symbol CLBINTLEVEL  := Opproctyp_Types.CLBINTLEVEL
265   277  define symbol EOTAKEOFF    := Opproctyp_Types.EOTAKEOFF
266   278  define symbol EOLEVELACCEL := Opproctyp_Types.EOLEVELACCEL
267   279  define symbol CRZLEVEL     := Opproctyp_Types.CRZLEVEL
268   280  define symbol DESCENTPATH  := Opproctyp_Types.DESCENTPATH
269   281  define symbol DESINTLEVEL  := Opproctyp_Types.DESINTLEVEL
270   282  define symbol LATEDESCENT  := Opproctyp_Types.LATEDESCENT
271   283  define symbol DESPATHOVER  := Opproctyp_Types.DESPATHOVER
272   284  define symbol EARLYDESCENT := Opproctyp_Types.EARLYDESCENT
273   285  define symbol HOLDTOMANUAL := Opproctyp_Types.HOLDTOMANUAL
274   286  define symbol AIRMASSDSCNT := Opproctyp_Types.AIRMASSDSCNT
275   287  define symbol EODRIFTDOWN  := Opproctyp_Types.EODRIFTDOWN
276   288  define symbol PREFLIGHT := Fmcs_Base_Types.PREFLIGHT
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

277	289	define symbol TAKEOFF := Fmcs_Base_Types.TAKEOFF
278	290	define symbol CLIMB := Fmcs_Base_Types.CLIMB
279	291	define symbol CRUISE := Fmcs_Base_Types.CRUISE
280	292	define symbol DESCENT := Fmcs_Base_Types.DESCENT
281	293	define symbol APPROACH := Fmcs_Base_Types.Flight_Phase_Type'(Fmcs_Base_Types.APPROAC
		» H)
282	294	define symbol GOAROUND := Fmcs_Base_Types.GOAROUND
283	295	define symbol DONE := Fmcs_Base_Types.DONE
284	296	define symbol MASTER := Fmcs_Base_Types.MASTER
285	297	define symbol WINDSHEAR_MAX_THRUST := Fmcs_Mdxx_Base_Types.WINDSHEAR_MAX_THRUST
286	298	define symbol PITCH_SPEED := Fmcs_Mdxx_Base_Types.PITCH_SPEED
287	299	define symbol ALT_CAPT_SPEED := Fmcs_Mdxx_Base_Types.ALT_CAPT_SPEED
288	300	define symbol ALT_CAPT_IDLE_THRUST := Fmcs_Mdxx_Base_Types.ALT_CAPT_IDLE_THRUST
289	301	define symbol ALT_HOLD_SPEED := Fmcs_Mdxx_Base_Types.ALT_HOLD_SPEED
290	302	define symbol ALT_HOLD_IDLE_THRUST := Fmcs_Mdxx_Base_Types.ALT_HOLD_IDLE_THRUST
291	303	define symbol SPEED_IDLE_THRUST := Fmcs_Mdxx_Base_Types.SPEED_IDLE_THRUST
292	304	define symbol SPEED_MAX_THRUST := Fmcs_Mdxx_Base_Types.SPEED_MAX_THRUST
293	305	define symbol VS_SPEED := Fmcs_Mdxx_Base_Types.VS_SPEED
294	306	define symbol ALT_HOLD_MAX_THRUST := Fmcs_Mdxx_Base_Types.ALT_HOLD_MAX_THRUST
295	307	define symbol ALT_CAPT_MAX_THRUST := Fmcs_Mdxx_Base_Types.ALT_CAPT_MAX_THRUST
296	308	define symbol TOGA_SPEED_MAX_THRUST := Fmcs_Mdxx_Base_Types.TOGA_SPEED_MAX_THRUST
297	309	
298	310	
299	311	CONSTANT
		» VALUE
300	312	---
		» ------------- -------------------------
301	313	DBG_TIMEOUT
		» 300
302	314	
303	315	
304	316	TESTID: 1
305	317	
306	318	Test Name: VGSELALT_001
307	319	The altitude and next altitude Target shall be invalid when the guidance/control/annu
		» nciation criteria
308	320	(as defined in 10.1.1) are not satisfied.
309	321	SRD Reference: 10.4.2 b. (VGUIDE_SRD_7000, MD11_VG_TEST_2059)
310	322	Notes: Vertical Guidance Active (Vgactive). True means all the conditions for allowi
		» ng Vertical Guidance
311	323	to be active are true. These conditions are explicitly stated in SRD Section 10.1.1.
		» 1b. and comprise
312	324	the guidance process, the control process, and the annunciation process.
313	325	
314	326	
315	327	INPUT
		» VALUE
316	328	---
		» ------------- -------------------------
317	329	Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude
		» -1000.0
318	330	Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
		» FALSE
319	331	VG_INPUTS_INT_DPKG.AIRBORNE
		» TRUE
320	332	VG_ONLY_INT_DPKG.VGACTIVE
		» FALSE
321	333	
322	334	
323	335	OUTPUT EXPECTED

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                »    TOLERANCE              ACTUAL               P/F
  324    336 ------------------------------------------------------  -----------------------------
                » -------------  -------------------------  ----
  325    337 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                  FALSE
                »      (N/A)                      FALSE   P
  326    338 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                                  FALSE
                »      (N/A)                      FALSE   P
  327    339
  328    340
  329    341 ====> All 2 Comparisons Passed <====
  330    342
  331    343
  332    344 TESTID: 2
  333    345
  334    346 Test Name:   VGSELALT_002
  335    347 Altitude Target
  336    348 SRD Reference: 10.4.2.1
  337    349
  338    350
  339    351 INPUT
                »                      VALUE
  340    352 -----------------------------------------------------------------------------------
                » -------------  -------------------------
  341    353 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                »                      FALSE
  342    354 VG_ONLY_INT_DPKG.VGACTIVE
                »                      TRUE
  343    355 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                »                      MASTER
  344    356 VG_HS_DPKG.DATA.FLTPHASE
                »                      CRUISE
  345    357 VG_INPUTS_INT_DPKG.CRZALT
                »                      25000.0
  346    358 VG_INPUTS_INT_DPKG.CRZALTVAL
                »                      TRUE
  347    359 VG_ONLY_INT_DPKG.VGREFALT
                »                      20000.0
  348    360 VG_OUTPUTS_INT_DPKG.OPPROC
                »                      CLBINTLEVEL
  349    361 VG_OUTPUTS_INT_DPKG.VGALTTGT
                »                      22000.0
  350    362 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                »                      TRUE
  351    363 VG_ONLY_INT_DPKG.NXTCLBTGT
                »                      18000.0
  352    364 VG_INPUTS_INT_DPKG.ACALT.ALT
                »                      21000.0
  353    365 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                »                      21000.0
  354    366 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                »                      TRUE
  355    367
  356    368
  357    369 OUTPUT                                                            EXPECTED
                »    TOLERANCE              ACTUAL               P/F
  358    370 ------------------------------------------------------  -----------------------------
                » -------------  -------------------------  ----
  359    371 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                                   TRUE
                »      (N/A)                      TRUE   P
  360    372 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                                22000.0
```

Beyond Compare 2.1.1

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                 »          0.0              2.20000E+04  P
  361    373 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                                    25000.0
                 »          0.0              2.50000E+04  P
  362    374 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                      TRUE
                 »        (N/A)                   TRUE  P
  363    375
  364    376
  365    377 ====> All 4 Comparisons Passed <====
  366    378
  367    379
  368    380 TESTID: 3
  369    381
  370    382 Test Name:   VGSELALT_003
  371    383 Altitude Target
  372    384 SRD Reference: 10.4.2.1
  373    385
  374    386
  375    387 INPUT
                 »                        VALUE
  376    388 --------------------------------------------------------------------------------
                 » ------------  -------------------------
  377    389 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                 »                        FALSE
  378    390 VG_ONLY_INT_DPKG.VGACTIVE
                 »                        TRUE
  379    391 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                 »                       MASTER
  380    392 VG_OUTPUTS_INT_DPKG.OPPROC
                 »                     AIRMASSASCNT
  381    393 VG_HS_DPKG.DATA.FLTPHASE
                 »                       CRUISE
  382    394 VG_INPUTS_INT_DPKG.ACALT.ALT
                 »                       21000.0
  383    395 VG_INPUTS_INT_DPKG.CRZALT
                 »                       25000.0
  384    396 VG_INPUTS_INT_DPKG.CRZALTVAL
                 »                        TRUE
  385    397 VG_ONLY_INT_DPKG.VGREFALT
                 »                       20000.0
  386    398 VG_OUTPUTS_INT_DPKG.VGALTTGT
                 »                       22000.0
  387    399 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                 »                        TRUE
  388    400 VG_ONLY_INT_DPKG.NXTCLBTGT
                 »                       18000.0
  389    401 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                 »                       21000.0
  390    402 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                 »                        FALSE
  391    403
  392    404
  393    405 OUTPUT                                                            EXPECTED
                 »   TOLERANCE          ACTUAL          P/F
  394    406 ----------------------------------------------------  ----------------------------
                 » ------------  -------------------------  ----
  395    407 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                                      TRUE
                 »        (N/A)                   TRUE  P
  396    408 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                                    22000.0
                 »          0.0              2.20000E+04  P
  397    409 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                                    25000.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                     »          0.0                  2.50000E+04  P
  398    410 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                          TRUE
                     »          (N/A)                         TRUE  P
  399    411
  400    412
  401    413 ====> All 4 Comparisons Passed <====
  402    414
  403    415
  404    416 TESTID: 4
  405    417
  406    418 Test Name:   VGSELALT_004
  407    419 Altitude Target
  408    420 SRD Reference: 10.4.2.1
  409    421
  410    422
  411    423 INPUT
                     »                          VALUE
  412    424 -------------------------------------------------------------------------------------
                     » ------------  -------------------------
  413    425 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                     »                               FALSE
  414    426 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                     »                               MASTER
  415    427 VG_HS_DPKG.DATA.FLTPHASE
                     »                               TAKEOFF
  416    428 VG_INPUTS_INT_DPKG.ACALT.ALT
                     »                               21000.0
  417    429 VG_INPUTS_INT_DPKG.CRZALT
                     »                               25000.0
  418    430 VG_INPUTS_INT_DPKG.CRZALTVAL
                     »                                 TRUE
  419    431 VG_ONLY_INT_DPKG.VGREFALT
                     »                               20000.0
  420    432 VG_OUTPUTS_INT_DPKG.OPPROC
                     »                             CLBINTLEVEL
  421    433 VG_OUTPUTS_INT_DPKG.VGALTTGT
                     »                               20000.0
  422    434 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                     »                                 TRUE
  423    435 VG_ONLY_INT_DPKG.NXTCLBTGT
                     »                               18000.0
  424    436 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE
                     »                               19000.0
  425    437 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                     »                               21000.0
  426    438 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                     »                               FALSE
  427    439
  428    440
  429    441 OUTPUT                                                                       EXPECTED
                     »   TOLERANCE              ACTUAL            P/F
  430    442 ------------------------------------------------------   -----------------------------
                     » ------------  -------------------------  ----
  431    443 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE                                   19000.0
                     »          0.0                  1.90000E+04  P
  432    444 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                                  20000.0
                     »          0.0                  2.00000E+04  P
  433    445 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                                   18000.0
                     »          0.0                  1.80000E+04  P
  434    446 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                     TRUE
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
            »             (N/A)                          TRUE   P
 435    447
 436    448
 437    449 ====> All 4 Comparisons Passed <====
 438    450
 439    451
 440    452 TESTID: 5
 441    453
 442    454 Test Name:   VGSELALT_005
 443    455 Altitude Target
 444    456 SRD Reference: 10.4.2.1
 445    457
 446    458
 447    459 INPUT
            »                         VALUE
 448    460 ------------------------------------------------------------------------------------------
            » -------------  --------------------------
 449    461 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
            »                              FALSE
 450    462 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
            »                             MASTER
 451    463 VG_HS_DPKG.DATA.FLTPHASE
            »                            TAKEOFF
 452    464 VG_INPUTS_INT_DPKG.ACALT.ALT
            »                            21000.0
 453    465 VG_INPUTS_INT_DPKG.CRZALT
            »                            25000.0
 454    466 VG_INPUTS_INT_DPKG.CRZALTVAL
            »                             TRUE
 455    467 VG_ONLY_INT_DPKG.VGREFALT
            »                            20000.0
 456    468 VG_OUTPUTS_INT_DPKG.OPPROC
            »                          CLBINTLEVEL
 457    469 VG_OUTPUTS_INT_DPKG.VGALTTGT
            »                            20000.0
 458    470 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
            »                             TRUE
 459    471 VG_ONLY_INT_DPKG.NXTCLBTGT
            »                            18000.0
 460    472 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE
            »                            18000.0
 461    473 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
            »                            21000.0
 462    474 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
            »                             FALSE
 463    475
 464    476
 465    477 OUTPUT                                                         EXPECTED
            »   TOLERANCE            ACTUAL            P/F
 466    478 ------------------------------------------------------  ----------------------------
            » -------------  --------------------------  ----
 467    479 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE                          18000.0
            »          0.0            1.80000E+04  P
 468    480 VG_INPUTS_INT_DPKG.CRZALT                                              25000.0
            »          0.0            2.50000E+04  P
 469    481 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                         20000.0
            »          0.0            2.00000E+04  P
 470    482 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          25000.0
            »          0.0            2.50000E+04  P
 471    483 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                            TRUE
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                 »              (N/A)                        TRUE   P
  472     484
  473     485
  474     486 ====> All 5 Comparisons Passed <====
  475     487
  476     488
  477     489 TESTID: 6
  478     490
  479     491 Test Name:   VGSELALT_006
  480     492 Next Altitude Target
  481     493 SRD Reference: 10.4.2.2
  482     494
  483     495
  484     496 INPUT
                 »                         VALUE
  485     497 ------------------------------------------------------------------------------------------
                 » -------------  --------------------------
  486     498 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                 »                               FALSE
  487     499 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                 »                               MASTER
  488     500 VG_HS_DPKG.DATA.FLTPHASE
                 »                               CRUISE
  489     501 VG_INPUTS_INT_DPKG.ACALT.ALT
                 »                             21000.0
  490     502 VG_INPUTS_INT_DPKG.CRZALT
                 »                             25000.0
  491     503 VG_INPUTS_INT_DPKG.CRZALTVAL
                 »                                TRUE
  492     504 VG_ONLY_INT_DPKG.NXTCLBTGT
                 »                             18000.0
  493     505 VG_ONLY_INT_DPKG.VGREFALT
                 »                             20000.0
  494     506 VG_OUTPUTS_INT_DPKG.OPPROC
                 »                            CLBINTLEVEL
  495     507 VG_OUTPUTS_INT_DPKG.VGALTTGT
                 »                             22000.0
  496     508 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                 »                               FALSE
  497     509 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                 »                             21000.0
  498     510 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                 »                               FALSE
  499     511
  500     512
  501     513 OUTPUT                                                        EXPECTED
                 »   TOLERANCE              ACTUAL              P/F
  502     514 ------------------------------------------------------  -----------------------------
                 » -------------  --------------------------  ----
  503     515 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                    25000.0
                 »           0.0            2.50000E+04   P
  504     516 VG_INPUTS_INT_DPKG.CRZALT                                        25000.0
                 »           0.0            2.50000E+04   P
  505     517 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                     TRUE
                 »          (N/A)                        TRUE   P
  506     518 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                    FALSE
                 »          (N/A)                       FALSE   P
  507     519
  508     520
  509     521 ====> All 4 Comparisons Passed <====
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
510    522
511    523
512    524 TESTID: 7
513    525
514    526 Test Name:   VGSELALT_007
515    527 Next Altitude Target
516    528 SRD Reference:  10.4.2.2
517    529
518    530
519    531 INPUT
           »                          VALUE
520    532 --------------------------------------------------------------------------------
           » -------------  -------------------------
521    533 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                              FALSE
522    534 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                              MASTER
523    535 VG_HS_DPKG.DATA.FLTPHASE
           »                              CLIMB
524    536 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                              21000.0
525    537 VG_INPUTS_INT_DPKG.CRZALT
           »                              25000.0
526    538 VG_ONLY_INT_DPKG.NXTCLBTGT
           »                              19000.0
527    539 VG_ONLY_INT_DPKG.VGREFALT
           »                              20000.0
528    540 VG_OUTPUTS_INT_DPKG.OPPROC
           »                              AIRMASSASCNT
529    541 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                              FALSE
530    542 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                              22000.0
531    543 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                              TRUE
532    544
533    545
534    546 OUTPUT                                                          EXPECTED
           »  TOLERANCE              ACTUAL           P/F
535    547 ------------------------------------------------------  -----------------------------
           » -------------  -------------------------  ----
536    548 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                      19000.0
           »        0.0              1.90000E+04  P
537    549 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                        TRUE
           »        (N/A)                TRUE  P
538    550 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                       FALSE
           »        (N/A)               FALSE  P
539    551
540    552
541    553 ====> All 3 Comparisons Passed <====
542    554
543    555
544    556 TESTID: 8
545    557
546    558 Test Name:   VGSELALT_008
547    559 Next Altitude Target
548    560 SRD Reference:  10.4.2.2
549    561
550    562
551    563 INPUT
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                      »                         VALUE
552    564 --------------------------------------------------------------------------------------------
                      » -------------  -------------------------
553    565 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                      »                         FALSE
554    566 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                      »                         MASTER
555    567 VG_HS_DPKG.DATA.FLTPHASE
                      »                         TAKEOFF
556    568 VG_INPUTS_INT_DPKG.ACALT.ALT
                      »                         21000.0
557    569 VG_INPUTS_INT_DPKG.CRZALT
                      »                         25000.0
558    570 VG_INPUTS_INT_DPKG.CRZALTVAL
                      »                         FALSE
559    571 VG_ONLY_INT_DPKG.NXTCLBTGT
                      »                         20000.0
560    572 VG_ONLY_INT_DPKG.VGREFALT
                      »                         20000.0
561    573 VG_OUTPUTS_INT_DPKG.OPPROC
                      »                         CLBINTLEVEL
562    574 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                      »                         TRUE
563    575 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                      »                         21000.0
564    576 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                      »                         FALSE
565    577
566    578
567    579 OUTPUT                                                         EXPECTED
                      »    TOLERANCE            ACTUAL            P/F
568    580 ----------------------------------------------------  ----------------------------
                      » -------------  -----------------------  ----
569    581 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          20000.0
                      »          0.0            2.00000E+04  P
570    582 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                             TRUE
                      »       (N/A)                TRUE  P
571    583
572    584
573    585 ====> All 2 Comparisons Passed <====
574    586
575    587
576    588 TESTID: 9
577    589
578    590 Test Name:   VGSELALT_009
579    591 Next Altitude Target
580    592 SRD Reference:  10.4.2.2
581    593
582    594
583    595 INPUT
                      »                         VALUE
584    596 --------------------------------------------------------------------------------------------
                      » -------------  -------------------------
585    597 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                      »                         FALSE
586    598 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                      »                         MASTER
587    599 VG_HS_DPKG.DATA.FLTPHASE
                      »                         CRUISE
588    600 VG_INPUTS_INT_DPKG.ACALT.ALT
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                    »                                  21000.0
 589    601 VG_INPUTS_INT_DPKG.CRZALT
                    »                                  25000.0
 590    602 VG_INPUTS_INT_DPKG.CRZALTVAL
                    »                                     TRUE
 591    603 VG_ONLY_INT_DPKG.NXTCLBTGT
                    »                                  18000.0
 592    604 VG_ONLY_INT_DPKG.VGREFALT
                    »                                  20000.0
 593    605 VG_OUTPUTS_INT_DPKG.OPPROC
                    »                               CLBINTLEVEL
 594    606 VG_OUTPUTS_INT_DPKG.VGALTTGT
                    »                                  22000.0
 595    607 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                    »                                     TRUE
 596    608 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                    »                                  21000.0
 597    609 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                    »                                    FALSE
 598    610
 599    611
 600    612 OUTPUT                                                           EXPECTED
                    »    TOLERANCE            ACTUAL            P/F
 601    613 -----------------------------------------------------  ----------------------------
                    » -------------  -------------------------  ----
 602    614 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                       25000.0
                    »          0.0              2.50000E+04  P
 603    615 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                         TRUE
                    »         (N/A)                   TRUE  P
 604    616
 605    617
 606    618 ====> All 2 Comparisons Passed <====
 607    619
 608    620
 609    621 TESTID: 10
 610    622
 611    623 Test Name:   VGSELALT_010
 612    624 Next altitude Target
 613    625 SRD Reference:  10.4.2.2
 614    626
 615    627
 616    628 INPUT
                    »                          VALUE
 617    629 ----------------------------------------------------------------------------------
                    » -------------  -------------------------
 618    630 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                    »                                    FALSE
 619    631 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                    »                                   MASTER
 620    632 VG_HS_DPKG.DATA.FLTPHASE
                    »                                   CRUISE
 621    633 VG_INPUTS_INT_DPKG.ACALT.ALT
                    »                                  21000.0
 622    634 VG_INPUTS_INT_DPKG.CRZALT
                    »                                  23000.0
 623    635 VG_INPUTS_INT_DPKG.CRZALTVAL
                    »                                     TRUE
 624    636 VG_ONLY_INT_DPKG.NXTCLBTGT
                    »                                  18000.0
 625    637 VG_ONLY_INT_DPKG.VGREFALT
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                                  »                                  20000.0
  626      638 VG_OUTPUTS_INT_DPKG.OPPROC
                                  »                              CLBINTLEVEL
  627      639 VG_OUTPUTS_INT_DPKG.VGALTTGT
                                  »                                  22000.0
  628      640 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                                  »                                     TRUE
  629      641 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                                  »                                  21000.0
  630      642 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                                  »                                    FALSE
  631      643
  632      644
  633      645 OUTPUT                                                              EXPECTED
                                  »     TOLERANCE              ACTUAL           P/F
  634      646 --------------------------------------------------------  ----------------------------
                                  » -------------  -------------------------  ----
  635      647 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                             23000.0
                                  »            0.0                2.30000E+04  P
  636      648 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                               TRUE
                                  »         (N/A)                       TRUE  P
  637      649
  638      650
  639      651 ====> All 2 Comparisons Passed <====
  640      652
  641      653
  642      654 TESTID: 11
  643      655
  644      656 Test Name:   VGSELALT_011
  645      657 Next altitude Target
  646      658 SRD Reference:  10.4.2.2
  647      659
  648      660
  649      661 INPUT
                                  »                              VALUE
  650      662 --------------------------------------------------------------------------------------
                                  » -------------  -------------------------
  651      663 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                                  »                                    FALSE
  652      664 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                                  »                                   MASTER
  653      665 VG_HS_DPKG.DATA.FLTPHASE
                                  »                                   CRUISE
  654      666 VG_INPUTS_INT_DPKG.ACALT.ALT
                                  »                                  21000.0
  655      667 VG_INPUTS_INT_DPKG.CRZALT
                                  »                                  27000.0
  656      668 VG_ONLY_INT_DPKG.NXTCLBTGT
                                  »                                  15000.0
  657      669 VG_ONLY_INT_DPKG.VGREFALT
                                  »                                  20000.0
  658      670 VG_OUTPUTS_INT_DPKG.OPPROC
                                  »                              AIRMASSASCNT
  659      671 VG_OUTPUTS_INT_DPKG.VGALTTGT
                                  »                                  25500.0
  660      672 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                                  »                                     TRUE
  661      673 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                                  »                                  21000.0
  662      674 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                      |  »                                      FALSE
  663 |   675 |
  664 |   676 |
  665 |   677 | OUTPUT                                                         EXPECTED
                      |  »    TOLERANCE              ACTUAL             P/F
  666 |   678 | ---------------------------------------------------------  -----------------------------
                      |  » -------------   -------------------------   ----
  667 |   679 | VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          27000.0
                      |  »          0.0                2.70000E+04  P
  668 |   680 | VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                             TRUE
                      |  »        (N/A)                     TRUE  P
  669 |   681 |
  670 |   682 |
  671 |   683 | ====> All 2 Comparisons Passed <====
  672 |   684 |
  673 |   685 |
  674 |   686 | TESTID: 12
  675 |   687 |
  676 |   688 | Test Name:   VGSELALT_012
  677 |   689 | Next altitude Target
  678 |   690 | SRD Reference:  10.4.2.2
  679 |   691 |
  680 |   692 |
  681 |   693 | INPUT
                      |  »                           VALUE
  682 |   694 | -----------------------------------------------------------------------------------------
                      |  » -------------   -------------------------
  683 |   695 | Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                      |  »                           FALSE
  684 |   696 | FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                      |  »                          MASTER
  685 |   697 | VG_HS_DPKG.DATA.FLTPHASE
                      |  »                          CRUISE
  686 |   698 | VG_INPUTS_INT_DPKG.ACALT.ALT
                      |  »                         21000.0
  687 |   699 | VG_INPUTS_INT_DPKG.CRZALT
                      |  »                         26000.0
  688 |   700 | VG_INPUTS_INT_DPKG.FCCSELALT
                      |  »                         26000.0
  689 |   701 | VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                      |  »                         21000.0
  690 |   702 | VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                      |  »                           FALSE
  691 |   703 | VG_ONLY_INT_DPKG.NXTDESTGT
                      |  »                         15000.0
  692 |   704 | VG_ONLY_INT_DPKG.VGREFALT
                      |  »                         26000.0
  693 |   705 | VG_OUTPUTS_INT_DPKG.OPPROC
                      |  »                         CRZLEVEL
  694 |   706 | VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                      |  »                           TRUE
  695 |   707 |
  696 |   708 |
  697 |   709 | OUTPUT                                                         EXPECTED
                      |  »    TOLERANCE              ACTUAL             P/F
  698 |   710 | ---------------------------------------------------------  -----------------------------
                      |  » -------------   -------------------------   ----
  699 |   711 | VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          26000.0
                      |  »          0.0                2.60000E+04  P
  700 |   712 | VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                             TRUE
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
                    »            (N/A)                          TRUE   P
 701|    713|
 702|    714|
 703|    715|====> All 2 Comparisons Passed <====
 704|    716|
 705|    717|
 706|    718|TESTID: 13
 707|    719|
 708|    720|Test Name:   VGSELALT_013
 709|    721|Next altitude Target
 710|    722|SRD Reference:  10.4.2.2
 711|    723|
 712|    724|
 713|    725|INPUT
                    »                          VALUE
 714|    726|-------------------------------------------------------------------------------------
                    » -------------  --------------------------
 715|    727|Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
                    »                                FALSE
 716|    728|FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
                    »                               MASTER
 717|    729|VG_HS_DPKG.DATA.FLTPHASE
                    »                               CRUISE
 718|    730|VG_INPUTS_INT_DPKG.ACALT.ALT
                    »                              17000.0
 719|    731|VG_INPUTS_INT_DPKG.CRZALT
                    »                              26000.0
 720|    732|VG_INPUTS_INT_DPKG.CRZALTVAL
                    »                                TRUE
 721|    733|VG_INPUTS_INT_DPKG.FCCSELALT
                    »                              14000.0
 722|    734|VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
                    »                              16000.0
 723|    735|VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
                    »                                TRUE
 724|    736|VG_ONLY_INT_DPKG.NXTDESTGT
                    »                              15000.0
 725|    737|VG_ONLY_INT_DPKG.VGREFALT
                    »                              26000.0
 726|    738|VG_OUTPUTS_INT_DPKG.OPPROC
                    »                              CRZLEVEL
 727|    739|VG_OUTPUTS_INT_DPKG.VGALTTGTVL
                    »                                TRUE
 728|    740|
 729|    741|
 730|    742|OUTPUT                                                              EXPECTED
                    »   TOLERANCE           ACTUAL           P/F
 731|    743|----------------------------------------------------  ----------------------------
                    » -------------  --------------------------  ----
 732|    744|VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          16000.0
                    »        0.0              1.60000E+04  P
 733|    745|VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                            TRUE
                    »        (N/A)                          TRUE   P
 734|    746|
 735|    747|
 736|    748|====> All 2 Comparisons Passed <====
 737|    749|
 738|    750|
 739|    751|TESTID: 14
 740|    752|
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
741    753 Test Name:   VGSELALT_014
742    754 Next altitude Target
743    755 SRD Reference:  10.4.2.2
744    756
745    757
746    758 INPUT
           »                            VALUE
747    759 ----------------------------------------------------------------------------------
           » -------------  -------------------------
748    760 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                                  TRUE
749    761 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                                MASTER
750    762 VG_HS_DPKG.DATA.FLTPHASE
           »                                CRUISE
751    763 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                               21000.0
752    764 VG_INPUTS_INT_DPKG.CRZALT
           »                               26000.0
753    765 VG_INPUTS_INT_DPKG.CRZALTVAL
           »                                  TRUE
754    766 VG_INPUTS_INT_DPKG.FCCSELALT
           »                               14000.0
755    767 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                               21000.0
756    768 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                                  TRUE
757    769 VG_ONLY_INT_DPKG.NXTDESTGT
           »                               -1000.0
758    770 VG_ONLY_INT_DPKG.STEPCLBAHD
           »                                  TRUE
759    771 VG_ONLY_INT_DPKG.VGREFALT
           »                               25000.0
760    772 VG_OUTPUTS_INT_DPKG.OPPROC
           »                              CRZLEVEL
761    773 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                                 FALSE
762    774
763    775
764    776 OUTPUT                                                          EXPECTED
           »    TOLERANCE              ACTUAL          P/F
765    777 ---------------------------------------------------  ------------------------------
           » -------------  -------------------------  ----
766    778 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                      26000.0
           »           0.0               2.60000E+04  P
767    779 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                        TRUE
           »         (N/A)                    TRUE  P
768    780 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                        TRUE
           »         (N/A)                    TRUE  P
769    781
770    782
771    783 ====> All 3 Comparisons Passed <====
772    784
773    785
774    786 TESTID: 15
775    787
776    788 Test Name:   VGSELALT_015
777        Next altitude Target
778        SRD Reference:  10.4.2.2
       789 Next altitude Target  (10.4.2.2)
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
       790
       791 During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
       792 the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
       793 Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
           »  is Descent Path.
       794
       795 this case to verify when the Vertical Guidance Operational Procedure is Descent Path,
       796 the Vertical Guidance Reference Altitude less than the Descent Target Altitude ,
       797 then he Altitude Target Is equal to the Descent Target Altitude
       798 SRD Reference:  VGUIDE_SRD_7006
       799
       800 SRD Reference:  10.4.2.2, VGUIDE_SRD_7006
  779  801
  780  802
  781  803 INPUT
           »                          VALUE
  782  804 --------------------------------------------------------------------------------
           » ------------  -------------------------
  783  805 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                            FALSE
  784  806 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                           MASTER
  785  807 VG_HS_DPKG.DATA.FLTPHASE
           »                          DESCENT
  786  808 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                          20000.0
  787  809 VG_INPUTS_INT_DPKG.FCCSELALT
           »                          14000.0
  788  810 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                          21000.0
  789  811 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                            FALSE
  790  812 VG_ONLY_INT_DPKG.DESTGTALT
           »                          20000.0
  791  813 VG_ONLY_INT_DPKG.NXTDESTGT
           »                          25000.0
  792  814 VG_ONLY_INT_DPKG.VGREFALT
           »                          25000.0
  793  815 VG_OUTPUTS_INT_DPKG.OPPROC
           »                        DESCENTPATH
  794  816 VG_OUTPUTS_INT_DPKG.VGALTTGT
           »                          19500.0
  795  817 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                            TRUE
  796  818
  797  819
  798  820 OUTPUT                                                        EXPECTED
           »   TOLERANCE            ACTUAL            P/F
  799  821 ----------------------------------------------------  ----------------------------
           » ------------  -------------------------  ----
  800  822 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                   20000.0
           »        0.0               2.00000E+04  P
  801  823 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                    25000.0
           »        0.0               2.50000E+04  P
  802  824 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                      TRUE
           »       (N/A)                 TRUE  P
  803  825
  804  826
  805  827 ====> All 3 Comparisons Passed <====
  806  828
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
807|  829|
808|  830|TESTID: 16
809|  831|
810|  832|Test Name:   VGSELALT_016
811|  833|Next altitude Target
812|  834|SRD Reference:  10.4.2.2
813|  835|
814|  836|
815|  837|INPUT
      |     |»                              VALUE
816|  838|------------------------------------------------------------------------------------
      |     |» -------------  -------------------------
817|  839|Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
      |     |»                                TRUE
818|  840|FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
      |     |»                                MASTER
819|  841|VG_HS_DPKG.DATA.FLTPHASE
      |     |»                                DESCENT
820|  842|VG_INPUTS_INT_DPKG.ACALT.ALT
      |     |»                                16000.0
821|  843|VG_INPUTS_INT_DPKG.FCCENGDMODE
      |     |»                            ALT_HOLD_SPEED
822|  844|VG_INPUTS_INT_DPKG.FCCSELALT
      |     |»                                14000.0
823|  845|VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
      |     |»                                15566.0
824|  846|VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
      |     |»                                TRUE
825|  847|VG_ONLY_INT_DPKG.DESTGTALT
      |     |»                                16000.0
826|  848|VG_ONLY_INT_DPKG.NXTDESTGT
      |     |»                                14050.0
827|  849|VG_ONLY_INT_DPKG.VGREFALT
      |     |»                                15566.0
828|  850|VG_OUTPUTS_INT_DPKG.OPPROC
      |     |»                            DESINTLEVEL
829|  851|VG_OUTPUTS_INT_DPKG.VGALTTGT
      |     |»                                14500.0
830|  852|VG_OUTPUTS_INT_DPKG.VGALTTGTVL
      |     |»                                TRUE
831|  853|
832|  854|
833|  855|OUTPUT                                                          EXPECTED
      |     |»   TOLERANCE              ACTUAL           P/F
834|  856|----------------------------------------------------  ----------------------------
      |     |» -------------  -------------------------  ----
835|  857|VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                        14500.0
      |     |»         0.0             1.45000E+04  P
836|  858|VG_OUTPUTS_INT_DPKG.NXTALTTGT                                         15566.0
      |     |»         0.0             1.55660E+04  P
837|  859|VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                           TRUE
      |     |»       (N/A)                     TRUE  P
838|  860|VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                          FALSE
      |     |»       (N/A)                    FALSE  P
839|  861|
840|  862|
841|  863|====> All 4 Comparisons Passed <====
842|  864|
843|  865|
844|  866|TESTID: 17
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
845   867
846   868 Test Name:   VGSELALT_017
847   869 Next altitude Target
848   870 SRD Reference:  10.4.2.2
849   871
850   872
851   873 INPUT
          »                         VALUE
852   874 -------------------------------------------------------------------------------------------
          » -------------  -------------------------
853   875 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
          »                                 TRUE
854   876 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
          »                                 MASTER
855   877 VG_HS_DPKG.DATA.FLTPHASE
          »                                 DESCENT
856   878 VG_INPUTS_INT_DPKG.ACALT.ALT
          »                                 21000.0
857   879 VG_INPUTS_INT_DPKG.FCCSELALT
          »                                 14000.0
858   880 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
          »                                 21000.0
859   881 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
          »                                 FALSE
860   882 VG_ONLY_INT_DPKG.DESTGTALT
          »                                 22000.0
861   883 VG_ONLY_INT_DPKG.NXTDESTGT
          »                                 15500.0
862   884 VG_ONLY_INT_DPKG.VGREFALT
          »                                 21500.0
863   885 VG_OUTPUTS_INT_DPKG.OPPROC
          »                                 DESPATHOVER
864   886 VG_OUTPUTS_INT_DPKG.VGALTTGT
          »                                 15555.0
865   887 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
          »                                 TRUE
866   888
867   889
868   890 OUTPUT                                                                 EXPECTED
          »   TOLERANCE            ACTUAL           P/F
869   891 --------------------------------------------------------  -----------------------------
          » -------------  -------------------------  ----
870   892 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                              15555.0
          »       0.0                1.55550E+04  P
871   893 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                               15500.0
          »       0.0                1.55000E+04  P
872   894 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                 TRUE
          »       (N/A)                    TRUE  P
873   895
874   896
875   897 ====> All 3 Comparisons Passed <====
876   898
877   899
878   900 TESTID: 18
879   901
880   902 Test Name:   VGSELALT_018
881   903 Next altitude Target
882   904 SRD Reference:  10.4.2.2
883   905
884   906
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
885    907 INPUT
           »                            VALUE
886    908 --------------------------------------------------------------------------------------
           » -------------   -------------------------
887    909 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                                 FALSE
888    910 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                                MASTER
889    911 VG_HS_DPKG.DATA.FLTPHASE
           »                               DESCENT
890    912 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                               21000.0
891    913 VG_INPUTS_INT_DPKG.FCCSELALT
           »                               14000.0
892    914 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                               21000.0
893    915 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                                 FALSE
894    916 VG_ONLY_INT_DPKG.DESTGTALT
           »                               14500.0
895    917 VG_ONLY_INT_DPKG.NXTDESTGT
           »                               14050.0
896    918 VG_ONLY_INT_DPKG.VGREFALT
           »                               22000.0
897    919 VG_OUTPUTS_INT_DPKG.OPPROC
           »                            LATEDESCENT
898    920 VG_OUTPUTS_INT_DPKG.VGALTTGT
           »                               15555.0
899    921 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                                  TRUE
900    922
901    923
902    924 OUTPUT                                                               EXPECTED
           »   TOLERANCE             ACTUAL           P/F
903    925 ----------------------------------------------------   ------------------------------
           » -------------   -------------------------   ----
904    926 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                              15555.0
           »          0.0                1.55550E+04  P
905    927 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                               14500.0
           »          0.0                1.45000E+04  P
906    928 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                                 TRUE
           »        (N/A)                      TRUE  P
907    929
908    930
909    931 ====> All 3 Comparisons Passed <====
910    932
911    933
912    934 TESTID: 19
913    935
914    936 Test Name:   VGSELALT_019
915    937 Next altitude Target
916    938 SRD Reference:  10.4.2.2
917    939
918    940
919    941 INPUT
           »                            VALUE
920    942 --------------------------------------------------------------------------------------
           » -------------   -------------------------
921    943 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                                 FALSE
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
922    944 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                                     MASTER
923    945 VG_HS_DPKG.DATA.FLTPHASE
           »                                     DESCENT
924    946 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                                     21000.0
925    947 VG_INPUTS_INT_DPKG.FCCSELALT
           »                                     14000.0
926    948 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                                     21000.0
927    949 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                                     FALSE
928    950 VG_ONLY_INT_DPKG.DESTGTALT
           »                                     15000.0
929    951 VG_ONLY_INT_DPKG.NXTDESTGT
           »                                     14050.0
930    952 VG_ONLY_INT_DPKG.VGREFALT
           »                                     21000.0
931    953 VG_OUTPUTS_INT_DPKG.OPPROC
           »                                     EARLYDESCENT
932    954 VG_OUTPUTS_INT_DPKG.VGALTTGT
           »                                     15555.0
933    955 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                                     TRUE
934    956
935    957
936    958 OUTPUT                                                          EXPECTED
           »    TOLERANCE              ACTUAL            P/F
937    959 ------------------------------------------------------  ----------------------------
           » -------------  -------------------------  ----
938    960 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                         15555.0
           »          0.0              1.55550E+04  P
939    961 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                          15000.0
           »          0.0              1.50000E+04  P
940    962 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                            TRUE
           »        (N/A)                     TRUE  P
941    963
942    964
943    965 ====> All 3 Comparisons Passed <====
944    966
945    967
946    968 TESTID: 20
947    969
948    970 Test Name:   VGSELALT_020
949    971 Next altitude Target
950    972 SRD Reference:  10.4.2.2
951    973
952    974
953    975 INPUT
           »                     VALUE
954    976 --------------------------------------------------------------------------------------
           » -------------  -------------------------
955    977 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                                     FALSE
956    978 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                                     MASTER
957    979 VG_HS_DPKG.DATA.FLTPHASE
           »                                     DESCENT
958    980 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                                     21000.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

959	981	VG_INPUTS_INT_DPKG.FCCSELALT
		» 14000.0
960	982	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
		» 18000.0
961	983	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
		» TRUE
962	984	VG_OUTPUTS_INT_DPKG.ALTTAPETGT
		» 15555.0
963	985	VG_ONLY_INT_DPKG.DESTGTALT
		» 17500.0
964	986	VG_ONLY_INT_DPKG.NXTDESTGT
		» 14050.0
965	987	VG_ONLY_INT_DPKG.VGREFALT
		» 20000.0
966	988	VG_OUTPUTS_INT_DPKG.OPPROC
		» HOLDTOMANUAL
967	989	VG_OUTPUTS_INT_DPKG.VGALTTGTVL
		» TRUE
968	990	
969	991	
970	992	OUTPUT EXPECTED
		» TOLERANCE ACTUAL P/F
971	993	-- ----------------------------
		» ------------- ------------------------- ----
972	994	VG_OUTPUTS_INT_DPKG.ALTTAPETGT 15555.0
		» 0.0 1.55550E+04 P
973	995	VG_OUTPUTS_INT_DPKG.NXTALTTGT 18000.0
		» 0.0 1.80000E+04 P
974	996	VG_OUTPUTS_INT_DPKG.NXTALTTGTV TRUE
		» (N/A) TRUE P
975	997	
976	998	
977	999	====> All 3 Comparisons Passed <====
978	1000	
979	1001	
980	1002	TESTID: 21
981	1003	
982	1004	Test Name: VGSELALT_021
983	1005	Next altitude Target
984	1006	SRD Reference: 10.4.2.2
985	1007	
986	1008	
987	1009	INPUT
		» VALUE
988	1010	---
		» ------------- -------------------------
989	1011	Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
		» FALSE
990	1012	FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
		» MASTER
991	1013	VG_HS_DPKG.DATA.FLTPHASE
		» DESCENT
992	1014	VG_INPUTS_INT_DPKG.ACALT.ALT
		» 19000.0
993	1015	VG_INPUTS_INT_DPKG.FCCSELALT
		» 14000.0
994	1016	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
		» 19000.0
995	1017	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
		» FALSE

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File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
 996   1018 VG_ONLY_INT_DPKG.DESTGTALT
              »                              17000.0
 997   1019 VG_ONLY_INT_DPKG.NXTDESTGT
              »                              15500.0
 998   1020 VG_ONLY_INT_DPKG.VGREFALT
              »                              16000.0
 999   1021 VG_OUTPUTS_INT_DPKG.OPPROC
              »                          AIRMASSDSCNT
1000   1022 VG_OUTPUTS_INT_DPKG.VGALTTGT
              »                              15555.0
1001   1023 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
              »                                TRUE
1002   1024
1003   1025
1004   1026 OUTPUT                                                        EXPECTED
              »    TOLERANCE              ACTUAL           P/F
1005   1027 ---------------------------------------------------  -----------------------------
              » -------------  -------------------------  ----
1006   1028 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                   15555.0
              »          0.0              1.55550E+04  P
1007   1029 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                    15500.0
              »          0.0              1.55000E+04  P
1008   1030 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                      TRUE
              »        (N/A)                    TRUE  P
1009   1031
1010   1032
1011   1033 ====> All 3 Comparisons Passed <====
1012   1034
1013   1035
1014   1036 TESTID: 22
1015   1037
1016   1038 Test Name:   VGSELALT_022
1017   1039 SRD Reference:  10.2.13.3, 10.4.2, 10.4.2.1
1018   1040
1019   1041
1020   1042 INPUT
              »                         VALUE
1021   1043 ------------------------------------------------------------------------------------
              » -------------  -------------------------
1022   1044 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
              »                                FALSE
1023   1045 VG_INPUTS_INT_DPKG.ACALT.ALT
              »                              18000.0
1024   1046 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
              »                              18000.0
1025   1047 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
              »                                FALSE
1026   1048 VG_ONLY_INT_DPKG.DESTGTALT
              »                              17000.0
1027   1049 VG_ONLY_INT_DPKG.NXTDESTGT
              »                              15550.0
1028   1050 VG_ONLY_INT_DPKG.VGREFALT
              »                              16000.0
1029   1051 VG_OUTPUTS_INT_DPKG.OPPROC
              »                          EODRIFTDOWN
1030   1052 VG_OUTPUTS_INT_DPKG.VGALTTGT
              »                              14444.0
1031   1053 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
              »                                TRUE
1032   1054
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
1033  1055
1034  1056 OUTPUT                                                              EXPECTED
           »    TOLERANCE              ACTUAL              P/F
1035  1057 -------------------------------------------------------  ----------------------------
           » -------------  -------------------------  ----
1036  1058 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                       14444.0
           »          0.0              1.44440E+04  P
1037  1059 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                        15550.0
           »          0.0              1.55500E+04  P
1038  1060 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                          TRUE
           »         (N/A)                     TRUE  P
1039  1061
1040  1062
1041  1063 ====> All 3 Comparisons Passed <====
1042  1064
1043  1065
1044  1066 TESTID: 23
1045  1067 Test Name:   VGSELALT_023
1046  1068 Next altitude Target
1047  1069 SRD Reference:  10.4.2.2
1048  1070
1049  1071
1050  1072 INPUT
           »                         VALUE
1051  1073 ----------------------------------------------------------------------------------
           » -------------  -------------------------
1052  1074 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
           »                         FALSE
1053  1075 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
           »                         MASTER
1054  1076 VG_HS_DPKG.DATA.FLTPHASE
           »                         CRUISE
1055  1077 VG_INPUTS_INT_DPKG.ACALT.ALT
           »                         21000.0
1056  1078 VG_INPUTS_INT_DPKG.CRZALT
           »                         13000.0
1057  1079 VG_INPUTS_INT_DPKG.FCCSELALT
           »                         14000.0
1058  1080 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
           »                         21000.0
1059  1081 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
           »                         FALSE
1060  1082 VG_ONLY_INT_DPKG.NXTDESTGT
           »                        -1000.0
1061  1083 VG_ONLY_INT_DPKG.STEPCLBAHD
           »                         FALSE
1062  1084 VG_ONLY_INT_DPKG.VGREFALT
           »                         25000.0
1063  1085 VG_OUTPUTS_INT_DPKG.OPPROC
           »                        CRZLEVEL
1064  1086 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
           »                         TRUE
1065  1087
1066  1088
1067  1089 OUTPUT                                                              EXPECTED
           »    TOLERANCE              ACTUAL              P/F
1068  1090 -------------------------------------------------------  ----------------------------
           » -------------  -------------------------  ----
1069  1091 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                        13000.0
           »          0.0              1.30000E+04  P
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

1070	1092	VG_OUTPUTS_INT_DPKG.NXTALTTGTV	TRUE
		» (N/A) TRUE P	
1071	1093		
1072	1094		
1073	1095	====> All 2 Comparisons Passed <====	
1074	1096		
1075	1097		
1076		~~TESTID: 23~~	
	1098	TESTID: 24	
1077	1099		
1078	1100	Test Name: VGSELALT_023	
1079	1101	Next altitude Target	
1080	1102	SRD Reference: 10.4.2.2	
1081	1103		
1082	1104		
1083	1105	INPUT VALUE	
1084	1106	---	
		» ------------ -------------------------	
1085	1107	Test_VG_SELECT_ALT_TARGET.test_for_FCC_call	
		» FALSE	
1086	1108	FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS	
		» MASTER	
1087	1109	VG_HS_DPKG.DATA.FLTPHASE	
		» CRUISE	
1088	1110	VG_INPUTS_INT_DPKG.ACALT.ALT	
		» 17000.0	
1089	1111	VG_INPUTS_INT_DPKG.CRZALT	
		» 13000.0	
1090	1112	VG_INPUTS_INT_DPKG.FCCSELALT	
		» 12000.0	
1091	1113	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT	
		» 17000.0	
1092	1114	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL	
		» TRUE	
1093	1115	VG_ONLY_INT_DPKG.DESTGTALT	
		» 16000.0	
1094	1116	VG_ONLY_INT_DPKG.NXTDESTGT	
		» -1001.0	
1095	1117	VG_ONLY_INT_DPKG.STEPCLBAHD	
		» FALSE	
1096	1118	VG_ONLY_INT_DPKG.VGREFALT	
		» 25000.0	
1097	1119	VG_OUTPUTS_INT_DPKG.OPPROC	
		» CRZLEVEL	
1098	1120	VG_OUTPUTS_INT_DPKG.VGALTTGTVL	
		» TRUE	
1099	1121		
1100	1122		
1101	1123	OUTPUT EXPECTED	
		» TOLERANCE ACTUAL P/F	
1102	1124	--- ----------------------------	
		» ------------ ------------------------- ----	
1103	1125	VG_OUTPUTS_INT_DPKG.NXTALTTGT 17000.0	
		» 0.0 1.70000E+04 P	
1104	1126	VG_OUTPUTS_INT_DPKG.NXTALTTGTV TRUE	
		» (N/A) TRUE P	
1105	1127		
1106	1128		
1107	1129	====> All 2 Comparisons Passed <====	

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

1108	1130	
1109	1131	
1110		TESTID: 24
	1132	TESTID: 25
1111	1133	
1112	1134	Test Name: VGSELALT_024
1113	1135	Next altitude Target
1114	1136	SRD Reference: 10.4.2.2
1115	1137	
1116	1138	
1117	1139	INPUT
		» VALUE
1118	1140	---
		» ------------ -------------------------
1119	1141	Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
		» FALSE
1120	1142	FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
		» MASTER
1121	1143	VG_HS_DPKG.DATA.FLTPHASE
		» CLIMB
1122	1144	VG_INPUTS_INT_DPKG.ACALT.ALT
		» 20000.0
1123	1145	VG_INPUTS_INT_DPKG.CRZALT
		» 13000.0
1124	1146	VG_INPUTS_INT_DPKG.CRZALTVAL
		» FALSE
1125	1147	VG_INPUTS_INT_DPKG.FCCSELALT
		» 14000.0
1126	1148	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
		» 20000.0
1127	1149	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
		» FALSE
1128	1150	VG_ONLY_INT_DPKG.NXTCLBTGT
		» 42000.0
1129	1151	VG_ONLY_INT_DPKG.VGREFALT
		» 21000.0
1130	1152	VG_OUTPUTS_INT_DPKG.OPPROC
		» CLBINTLEVEL
1131	1153	VG_OUTPUTS_INT_DPKG.VGALTTGTVL
		» TRUE
1132	1154	VG_INPUTS_INT_DPKG.CRZALTVAL
		» TRUE
1133	1155	
1134	1156	
1135	1157	OUTPUT EXPECTED
		» TOLERANCE ACTUAL P/F
1136	1158	--- -----------------------------
		» ------------ ------------------------- ----
1137	1159	VG_OUTPUTS_INT_DPKG.NXTALTTGT 42000.0
		» 0.0 4.20000E+04 P
1138	1160	VG_OUTPUTS_INT_DPKG.NXTALTTGTV TRUE
		» (N/A) TRUE P
1139	1161	
1140	1162	
1141	1163	====> All 2 Comparisons Passed <====
1142	1164	
1143	1165	
1144		TESTID: 25
	1166	TESTID: 26
1145	1167	

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
1146   1168 Test Name:   VGSELALT_025
1147   1169 Next altitude Target
1148   1170 SRD Reference:  10.4.2.2
1149   1171
1150   1172
1151   1173 INPUT
            »                             VALUE
1152   1174 -------------------------------------------------------------------------------------
            » -------------  --------------------------
1153   1175 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
            »                                  FALSE
1154   1176 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
            »                                 MASTER
1155   1177 VG_HS_DPKG.DATA.FLTPHASE
            »                                 CRUISE
1156   1178 VG_INPUTS_INT_DPKG.ACALT.ALT
            »                                21000.0
1157   1179 VG_INPUTS_INT_DPKG.CRZALT
            »                                13000.0
1158   1180 VG_INPUTS_INT_DPKG.CRZALTVAL
            »                                   TRUE
1159   1181 VG_INPUTS_INT_DPKG.FCCSELALT
            »                                14000.0
1160   1182 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
            »                                21000.0
1161   1183 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
            »                                  FALSE
1162   1184 VG_ONLY_INT_DPKG.DESTGTALT
            »                                -1000.0
1163   1185 VG_ONLY_INT_DPKG.NXTCLBTGT
            »                                -1000.0
1164   1186 VG_ONLY_INT_DPKG.NXTDESTGT
            »                                -1000.0
1165   1187 VG_ONLY_INT_DPKG.STEPCLBAHD
            »                                  FALSE
1166   1188 VG_ONLY_INT_DPKG.VGREFALT
            »                                25000.0
1167   1189 VG_OUTPUTS_INT_DPKG.OPPROC
            »                              HOLDTOMANUAL
1168   1190 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
            »                                   TRUE
1169   1191 Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude
            »                                -1000.0
1170   1192
1171   1193
1172   1194 OUTPUT                                                         EXPECTED
            »   TOLERANCE             ACTUAL            P/F
1173   1195 ----------------------------------------------------  ----------------------------
            » -------------  --------------------------  ----
1174   1196 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                     -1000.0
            »        0.0             -1.00000E+03  P
1175   1197 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                    FALSE
            »       (N/A)                FALSE  P
1176   1198
1177   1199
1178   1200 ====> All 2 Comparisons Passed <====
1179   1201
1180   1202
1181        TESTID: 26
       1203 TESTID: 27
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

1182	1204	
1183	1205	Test Name: VGSELALT_026
1184	1206	Next altitude Target
1185	1207	SRD Reference: 10.4.2.2
1186	1208	
1187	1209	
1188	1210	INPUT
		» VALUE
1189	1211	---
		» ------------- -------------------------
1190	1212	Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
		» FALSE
1191	1213	FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
		» MASTER
1192	1214	VG_HS_DPKG.DATA.FLTPHASE
		» CRUISE
1193	1215	VG_INPUTS_INT_DPKG.ACALT.ALT
		» 21000.0
1194	1216	VG_INPUTS_INT_DPKG.CRZALT
		» 14500.0
1195	1217	VG_INPUTS_INT_DPKG.CRZALTVAL
		» TRUE
1196	1218	VG_INPUTS_INT_DPKG.FCCSELALT
		» 14000.0
1197	1219	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
		» 21000.0
1198	1220	VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
		» FALSE
1199	1221	VG_ONLY_INT_DPKG.DESTGTALT
		» -1000.0
1200	1222	VG_ONLY_INT_DPKG.NXTCLBTGT
		» -1000.0
1201	1223	VG_ONLY_INT_DPKG.NXTDESTGT
		» -1000.0
1202	1224	VG_ONLY_INT_DPKG.STEPCLBAHD
		» FALSE
1203	1225	VG_ONLY_INT_DPKG.VGREFALT
		» 25000.0
1204	1226	VG_OUTPUTS_INT_DPKG.OPPROC
		» CRZLEVEL
1205	1227	VG_OUTPUTS_INT_DPKG.VGALTTGTVL
		» TRUE
1206	1228	
1207	1229	
1208	1230	OUTPUT EXPECTED
		» TOLERANCE ACTUAL P/F
1209	1231	-- -----------------------------
		» ------------- ------------------------- ----
1210	1232	VG_OUTPUTS_INT_DPKG.NXTALTTGT -1000.0
		» 0.0 -1.00000E+03 P
1211	1233	VG_OUTPUTS_INT_DPKG.NXTALTTGTV FALSE
		» (N/A) FALSE P
1212	1234	
1213	1235	
1214	1236	====> All 2 Comparisons Passed <====
1215	1237	
1216	1238	
1217		~~TESTID: 27~~
	1239	TESTID: 28
1218	1240	

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
1219   1241 Test Name:   VGSELALT_027
1220   1242 Next altitude Target
1221   1243 SRD Reference:  10.4.2.2
1222   1244
1223   1245
1224   1246 INPUT
            »                              VALUE
1225   1247 -------------------------------------------------------------------------------
            » -------------  -------------------------
1226   1248 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
            »                                     TRUE
1227   1249 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
            »                                   MASTER
1228   1250 VG_HS_DPKG.DATA.FLTPHASE
            »                                  DESCENT
1229   1251 VG_INPUTS_INT_DPKG.ACALT.ALT
            »                                  16000.0
1230   1252 VG_INPUTS_INT_DPKG.FCCENGDMODE
            »                       ALT_HOLD_MAX_THRUST
1231   1253 VG_INPUTS_INT_DPKG.FCCSELALT
            »                                  14000.0
1232   1254 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
            »                                  15566.0
1233   1255 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
            »                                     TRUE
1234   1256 VG_ONLY_INT_DPKG.DESTGTALT
            »                                  16000.0
1235   1257 VG_ONLY_INT_DPKG.NXTDESTGT
            »                                  14050.0
1236   1258 VG_ONLY_INT_DPKG.VGREFALT
            »                                  15566.0
1237   1259 VG_OUTPUTS_INT_DPKG.OPPROC
            »                              DESINTLEVEL
1238   1260 VG_OUTPUTS_INT_DPKG.VGALTTGT
            »                                  14500.0
1239   1261 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
            »                                     TRUE
1240   1262
1241   1263
1242   1264 OUTPUT                                                        EXPECTED
            »   TOLERANCE              ACTUAL          P/F
1243   1265 ----------------------------------------------------  -----------------------------
            » -------------  -------------------------  ----
1244   1266 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                  14500.0
            »          0.0              1.45000E+04  P
1245   1267 VG_OUTPUTS_INT_DPKG.NXTALTTGT                                   15566.0
            »          0.0              1.55660E+04  P
1246   1268 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                     TRUE
            »        (N/A)                    TRUE  P
1247   1269 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                    FALSE
            »        (N/A)                   FALSE  P
1248   1270
1249   1271
1250   1272 ====> All 4 Comparisons Passed <====
1251   1273
1252   1274
1253        TESTID: 28
       1275 TESTID: 29
1254   1276
1255   1277 Test Name:   VGSELALT_028
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
1256   1278 The Vertical Guidance Altitude Target (AA, CIL, CL, DP, DIL, ED, LD, DPO, HM, AD, EO
            » T/O, EO T/O Lvl Acc, EODD)
1257   1279 is the Vertical Guidance Reference Altitude (FCC package not called)
1258   1280 SRD REFERENCE 10.2.1.3, 10.2.2.3, 10.2.3.3, 10.2.4.3, 10.2.5.3, 10.2.6.3,
1259   1281 SRD REFERENCE 10.2.7.3, 10.2.8.3, 10.2.9.3, 10.2.10.3, 10.2.11.3, 10.2.12.3
1260   1282 (VGUIDE_SRD_8005, MD11_VG_TEST_1104) & (VGUIDE_SRD_5206, MD11_VG_TEST_1202) & (VGUIDE
            » _SRD_5304, MD11_VG_TEST_1303) &
1261   1283 (VGUIDE_SRD_5618, MD11_VG_TEST_1403) & (VGUIDE_SRD_5655, MD11_VG_TEST_1503) & (VGUIDE
            » _SRD_8286, MD11_VG_TEST_3822) &
1262   1284 (VGUIDE_SRD_8235, MD11_VG_TEST_3823) & (VGUIDE_SRD_8201, MD11_VG_TEST_3824) & (VGUIDE
            » _SRD_8152, MD11_VG_TEST_3825) &
1263   1285 (VGUIDE_SRD_8118, MD11_VG_TEST_3826) & (VGUIDE_SRD_2840, MD11_VG_TEST_3827) & (VGUIDE
            » _SRD_5555, MD11_VG_TEST_3828) &
1264   1286 (VGUIDE_SRD_2894, MD11_VG_TEST_3829)
1265   1287
1266   1288
1267   1289 INPUT
            »                        VALUE
1268   1290 ---------------------------------------------------------------------------------
            » ------------  -------------------------
1269   1291 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
            »                          FALSE
1270   1292 VG_ONLY_INT_DPKG.VGREFALT
            »                         15566.0
1271   1293 VG_OUTPUTS_INT_DPKG.VGALTTGT
            »                         15000.0
1272   1294
1273   1295
1274   1296 OUTPUT                                                          EXPECTED
            »   TOLERANCE              ACTUAL            P/F
1275   1297 -----------------------------------------------------  ----------------------------
            » ------------  -------------------------  ----
1276   1298 VG_ONLY_INT_DPKG.VGREFALT                                         15566.0
            »          0.0             1.55660E+04  P
1277   1299 VG_OUTPUTS_INT_DPKG.VGALTTGT                                      15000.0
            »          0.0             1.50000E+04  P
1278   1300
1279   1301
1280   1302 ====> All 2 Comparisons Passed <====
1281   1303
1282   1304
1283        TESTID: 29
       1305 TESTID: 30
1284   1306
1285   1307 Test Name:  VGSELALT_029
1286   1308 The Vertical Guidance Altitude Target (AA, CIL, CL, EO T/O, EO T/O, Lvl Acc) is the V
            » ertical Guidance Reference Altitude
1287   1309 SRD REFERENCE 10.2.1.3, 10.2.2.3, 10.2.3.3, 10.2.11.3, 10.2.12.3 (FCC package called)
1288   1310 (VGUIDE_SRD_8005, MD11_VG_TEST_1104) & (VGUIDE_SRD_5206, MD11_VG_TEST_1202) & (VGUIDE
            » _SRD_5304, MD11_VG_TEST_1303) &
1289   1311 (VGUIDE_SRD_5618, MD11_VG_TEST_1403) & (VGUIDE_SRD_5655, MD11_VG_TEST_1503) & (VGUIDE
            » _SRD_8286, MD11_VG_TEST_3822) &
1290   1312 (VGUIDE_SRD_8235, MD11_VG_TEST_3823) & (VGUIDE_SRD_8201, MD11_VG_TEST_3824) & (VGUIDE
            » _SRD_8152, MD11_VG_TEST_3825) &
1291   1313 (VGUIDE_SRD_8118, MD11_VG_TEST_3826) & (VGUIDE_SRD_2840, MD11_VG_TEST_3827) & (VGUIDE
            » _SRD_5555, MD11_VG_TEST_3828) &
1292   1314 (VGUIDE_SRD_2894, MD11_VG_TEST_3829)
1293   1315
1294   1316
1295   1317 INPUT
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
          |  »                             VALUE
1296 1318 -------------------------------------------------------------------------------------
          |  » -------------  -------------------------
1297 1319 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
          |  »                               TRUE
1298 1320 VG_ONLY_INT_DPKG.VGREFALT
          |  »                             15566.0
1299 1321 VG_OUTPUTS_INT_DPKG.VGALTTGT
          |  »                             15000.0
1300 1322
1301 1323
1302 1324 OUTPUT                                                          EXPECTED
          |  »   TOLERANCE             ACTUAL              P/F
1303 1325 ------------------------------------------------------  ----------------------------
          |  » -------------  -------------------------  ----
1304 1326 VG_ONLY_INT_DPKG.VGREFALT                                                    15566.0
          |  »        0.0             1.55660E+04  P
1305 1327 VG_OUTPUTS_INT_DPKG.VGALTTGT                                                 15566.0
          |  »        0.0             1.55660E+04  P
1306 1328
1307 1329
1308 1330 ====> All 2 Comparisons Passed <====
1309 1331
1310 1332
1311      TESTID: 30
     1333 TESTID: 31
1312 1334
1313 1335 Test Name:   VGSELALT_030
1314 1336 Next altitude Target
1315 1337 SRD Reference:  10.4.2.2
1316 1338
1317 1339
1318 1340 INPUT
          |  »                             VALUE
1319 1341 -------------------------------------------------------------------------------------
          |  » -------------  -------------------------
1320 1342 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
          |  »                               TRUE
1321 1343 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
          |  »                             MASTER
1322 1344 VG_HS_DPKG.DATA.FLTPHASE
          |  »                             CRUISE
1323 1345 VG_INPUTS_INT_DPKG.ACALT.ALT
          |  »                             21000.0
1324 1346 VG_INPUTS_INT_DPKG.CRZALT
          |  »                             26000.0
1325 1347 VG_INPUTS_INT_DPKG.CRZALTVAL
          |  »                               TRUE
1326 1348 VG_INPUTS_INT_DPKG.FCCSELALT
          |  »                             14000.0
1327 1349 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
          |  »                             21000.0
1328 1350 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
          |  »                               TRUE
1329 1351 VG_ONLY_INT_DPKG.NXTDESTGT
          |  »                             -1000.0
1330 1352 VG_ONLY_INT_DPKG.STEPCLBAHD
          |  »                               TRUE
1331 1353 VG_ONLY_INT_DPKG.VGREFALT
          |  »                             25000.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
1332 | 1354 | VG_OUTPUTS_INT_DPKG.OPPROC
     |      | »                          AIRMASSASCNT
1333 | 1355 | VG_OUTPUTS_INT_DPKG.VGALTTGTVL
     |      | »                               FALSE
1334 | 1356 |
1335 | 1357 |
1336 | 1358 | OUTPUT                                                   EXPECTED
     |      | »   TOLERANCE              ACTUAL          P/F
1337 | 1359 | -------------------------------------------------------  -----------------------------
     |      | » -------------  ------------------------  ----
1338 | 1360 | VG_OUTPUTS_INT_DPKG.NXTALTTGT                                    26000.0
     |      | »          0.0                 2.60000E+04  P
1339 | 1361 | VG_OUTPUTS_INT_DPKG.NXTALTTGTV                                      TRUE
     |      | »          (N/A)                     TRUE  P
1340 | 1362 | VG_OUTPUTS_INT_DPKG.VGALTTGTVL                                      TRUE
     |      | »          (N/A)                     TRUE  P
1341 | 1363 |
1342 | 1364 |
1343 | 1365 | ====> All 3 Comparisons Passed <====
1344 | 1366 |
1345 | 1367 |
1346 |      | Test End Time: Oct 23 17:07:01 2012
     | 1368 | TESTID: 32
     | 1369 |
     | 1370 | During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
     | 1371 | the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
     | 1372 | Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
     |      | »  is Descent Path.
     | 1373 |
     | 1374 | this case to verify when the Vertical Guidance Operational Procedure is Descent Path,
     | 1375 | the Vertical Guidance Reference Altitude greater than the Descent Target Altitude ,
     | 1376 | then he Altitude Target Is equal to the Vertical Guidance Reference Altitude
     | 1377 | SRD Reference:  VGUIDE_SRD_7006
     | 1378 |
     | 1379 |
     | 1380 | INPUT
     |      | »                     VALUE
     | 1381 | ------------------------------------------------------------------------------------------
     |      | » -------------  ------------------------
     | 1382 | Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
     |      | »                               FALSE
     | 1383 | FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
     |      | »                              MASTER
     | 1384 | VG_HS_DPKG.DATA.FLTPHASE
     |      | »                             DESCENT
     | 1385 | VG_INPUTS_INT_DPKG.ACALT.ALT
     |      | »                             20000.0
     | 1386 | VG_INPUTS_INT_DPKG.FCCSELALT
     |      | »                             14000.0
     | 1387 | VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
     |      | »                             21000.0
     | 1388 | VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
     |      | »                               FALSE
     | 1389 | VG_ONLY_INT_DPKG.DESTGTALT
     |      | »                             20000.0
     | 1390 | VG_ONLY_INT_DPKG.NXTDESTGT
     |      | »                             25000.0
     | 1391 | VG_ONLY_INT_DPKG.VGREFALT
     |      | »                             25000.0
     | 1392 | VG_OUTPUTS_INT_DPKG.OPPROC
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

```
     »                              DESCENTPATH
1393 VG_OUTPUTS_INT_DPKG.VGALTTGT
     »                                 20500.0
1394 VG_OUTPUTS_INT_DPKG.VGALTTGTVL
     »                                    TRUE
1395
1396
1397 OUTPUT                                              EXPECTED
     »   TOLERANCE              ACTUAL              P/F
1398 ------------------------------------------------  -----------------------------
     » -------------  -------------------------  ----
1399 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                                       20500.0
     »          0.0               2.05000E+04  P
1400
1401
1402 ====> All 1 Comparisons Passed <====
1403
1404
1405 TESTID: 33
1406
1407 During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
1408 the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
1409 Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
     »  is Descent Path.
1410
1411 this case to verify when the Vertical Guidance Operational Procedure is not Descent P
     » ath,
1412 SRD Reference:  VGUIDE_SRD_7006
1413
1414
1415 INPUT
     »                          VALUE
1416 --------------------------------------------------------------------------------
     » -------------  -------------------------
1417 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
     »                                    TRUE
1418 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
     »                                  MASTER
1419 VG_HS_DPKG.DATA.FLTPHASE
     »                                  CRUISE
1420 VG_INPUTS_INT_DPKG.ACALT.ALT
     »                                 21000.0
1421 VG_INPUTS_INT_DPKG.CRZALT
     »                                 26000.0
1422 VG_INPUTS_INT_DPKG.CRZALTVAL
     »                                    TRUE
1423 VG_INPUTS_INT_DPKG.FCCSELALT
     »                                 14000.0
1424 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT
     »                                 21000.0
1425 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL
     »                                    TRUE
1426 VG_ONLY_INT_DPKG.NXTDESTGT
     »                                 -1000.0
1427 VG_ONLY_INT_DPKG.STEPCLBAHD
     »                                    TRUE
1428 VG_ONLY_INT_DPKG.VGREFALT
     »                                 25000.0
1429 VG_OUTPUTS_INT_DPKG.OPPROC
     »                                Crzlevel
```

File: CTP_MD11_VG_SEL_ALT_TGT.rst (continued)

	1430	VG_OUTPUTS_INT_DPKG.VGALTTGTVL
		» FALSE
	1431	Vg_Inputs_Int_Dpkg.Fccengdmode
		» Alt_Capt_Speed
	1432	VG_OUTPUTS_INT_DPKG.VGALTTGT
		» 24900.0
	1433	VG_ONLY_INT_DPKG.DESTGTALT
		» 25000.0
	1434	
	1435	
	1436	OUTPUT EXPECTED
		» TOLERANCE ACTUAL P/F
	1437	--- ------------------------------
		» ------------- ------------------------- ----
	1438	VG_OUTPUTS_INT_DPKG.ALTTAPETGT 24900.0
		» 0.0 2.49000E+04 P
	1439	
	1440	
	1441	====> All 1 Comparisons Passed <====
	1442	
	1443	
	1444	Test End Time: Apr 25 15:33:14 2013
1347	1445	Test Generation System (TGS) Version v4.5.2, ps4082887-103
1348	1446	Current Program Library
1349		c:\builds\md11\922_408\hads_root\a29_cert_system.alb (root)
1350		c:\builds\md11\922_408\common_software\pegasus_29050_v014\acm$ada_lib.alb
1351		c:\builds\md11\922_408\bld_922_408\libraries\com.alb
1352		C:\BUILDS\md11\922_408\BLD_922_408\Libraries\FM.alb
1353		D:\Exercise and task\VG\New Folder\CTP_MD11_VG_SEL_ALT_TGT\my_FM.alb
	1447	c:\builds\md11\922_604\hads_root\a29_cert_system.alb (root)
	1448	c:\builds\md11\922_604\common_software\pegasus_29050_v014\acm$ada_lib.alb
	1449	c:\builds\md11\922_604\bld_922_604\libraries\com.alb
	1450	C:\BUILDS\md11\922_604\BLD_922_604\Libraries\FM.alb
	1451	D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT\my_FM.alb

File: CTP_MD11_VG_SEL_ALT_TGT.TDF

1	1	FILE: CTP_MD11_VG_SEL_ALT_TGT.TDF
2	2	
3	3	TITLE: Vertical Guidance Select Altitude Target
4	4	
5	5	SOURCE CONFIGURATION: ISS
6	6	
7	7	AUTHOR: Keith Scherrer
8	8	
9	9	TRANSLATED BY: Gerald J. Molczyk / David M. Hall DATE: 06-Jun-97
10	10	
11	11	MODIFIED BY: Dennis Kenney / David M. Hall / Christian Sarraf
12	12	
13	13	PACKAGE: VG_ALTITUDE_TARGET_PKG
14	14	
15	15	PROCEDURE: SELECT_ALT_TARGET
16	16	
17	17	PURPOSE: This test is to verify that the Next Altitude Target
18	18	and Altitude Tape Target are correctly selected for
19	19	each operational scenario.
20		
	20	
	21	-- »
	22	MODIFIED BY : DUN, QING
	23	DATE : 25 APR 2013
	24	CHECKED UNDER SCR : 17011.01
	25	BUILD USED : MD11_922_604
	26	SRD NAME & VERSION : VG_MDXX_ALT_TGT_PFD.SRD, 6
	27	MODIFICATIONS : 1. Renumber the TESTID as the same TESTID
	28	2. Added TCs 32-33 to test the anchor VGUIDE_SRD_7006 as p » er SCR 17011.00
	29	3. Modify TC 15 to test the anchor VGUIDE_SRD_7006 as per » SCR 17011.00
	30	
	31	-- »
	32	
21	33	-- NOTES:
22	34	-- (1) Original Script:
23	35	-- Element Name: VGSELALTTGT.PAS
24	36	-- Last Modified: 16-AUG-1994 10:46:38.64
25	37	-- Author Name: Keith Scherrer
26	38	--
27	39	-- (2) Revision History:
28	40	-- Element Name: CTP_VG_SELECT_ALT_TARGET.TDF
29	41	-- Translated: 06-JUN-1997
30	42	-- Translators: Gerald J. Molczyk / David M. Hall
31	43	-- NOTES: Ported from scaled Pascal to Ada. Revised for the
32	44	-- MD11 program.
33	45	--
34	46	-- (3) Revision History:
35	47	-- Element Name: CTP_717_VG_SELECT_ALT_TGT.TDF
36	48	-- Last Modified: 24-SEP-1998
37	49	-- Modified by:: Dennis Kenney / David M. Hall / Christian Sarraf
38	50	-- NOTES: Revised for the MDXX program.
39	51	--
40	52	-- (4) Revision History:
41	53	-- Element Name: CTP_MD10_VG_SEL_ALT_TGT.TDF
42	54	-- Last Modified: 24-JUL-1999
43	55	-- Modified by: Christian Sarraf

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
 44|  56|--      NOTES:           Revised for the MD10 program.
 45|  57|--
 46|  58|-- (5) Revision History:
 47|  59|--      Element Name:   CTP_717C2_VG_SEL_ALT_TGT.TDF
 48|  60|--      Last Modified:  20-Feb-2000
 49|  61|--      Modified by:    Christian Sarraf
 50|  62|--      NOTES:           Revised for the 717C2 program.
 51|  63|--
 52|  64|-- (6) Revision History:
 53|  65|--      Element Name:   CTP_MD11_VG_SEL_ALT_TGT.TDF
 54|  66|--      Last Modified:  29-Jun-2000
 55|  67|--      Modified by:    Christian Sarraf
 56|  68|--      NOTES:           Revised for the MD11 program.
 57|  69|
 58|  70|
 59|  71|TRACEABILITY TO REQUIREMENTS/CODE:
 60|  72|
 61|  73|-- ANCHOR  : MD11_VG_TEST_2059
 62|  74|-- SOURCE  : VGUIDE_SRD_7000
 63|  75|
 64|  76|-- ANCHOR  : MD11_VG_TEST_2057
 65|  77|-- SOURCE  : VGUIDE_SRD_7002
 66|  78|
 67|  79|-- ANCHOR  : MD11_VG_TEST_2018
 68|  80|-- SOURCE  : VGUIDE_SRD_7003
 69|  81|
 70|  82|-- ANCHOR  : MD11_VG_TEST_3830
 71|  83|-- SOURCE  : VGUIDE_SRD_7004
 72|  84|
 73|  85|-- ANCHOR  : MD11_VG_TEST_3831
 74|  86|-- SOURCE  : VGUIDE_SRD_7006
 75|  87|
 76|  88|-- ANCHOR  : MD11_VG_TEST_2019
 77|  89|-- SOURCE  : VGUIDE_SRD_7007
 78|  90|
 79|  91|-- ANCHOR  : MD11_VG_TEST_3832
 80|  92|-- SOURCE  : VGUIDE_SRD_7008
 81|  93|
 82|  94|-- ANCHOR  : MD11_VG_TEST_3833
 83|  95|-- SOURCE  : VGUIDE_SRD_7009
 84|  96|
 85|  97|-- ANCHOR  : MD11_VG_TEST_2020
 86|  98|-- SOURCE  : VGUIDE_SRD_7010
 87|  99|
 88| 100|-- ANCHOR  : MD11_VG_TEST_3834
 89| 101|-- SOURCE  : VGUIDE_SRD_7011
 90| 102|
 91| 103|-- ANCHOR  : MD11_VG_TEST_3835
 92| 104|-- SOURCE  : VGUIDE_SRD_7012
 93| 105|
 94| 106|-- ANCHOR  : MD11_VG_TEST_3836
 95| 107|-- SOURCE  : VGUIDE_SRD_7013
 96| 108|
 97| 109|-- ANCHOR  : MD11_VG_TEST_3837
 98| 110|-- SOURCE  : VGUIDE_SRD_7015
 99| 111|
100| 112|-- ANCHOR  : MD11_VG_TEST_3838
101| 113|-- SOURCE  : VGUIDE_SRD_7017
102| 114|
103| 115|-- ANCHOR  : MD11_VG_TEST_1178
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
104   116 -- SOURCE  : VGUIDE_SRD_2902
105   117
106   118 -- ANCHOR  : MD11_VG_TEST_1104
107   119 -- SOURCE  : VGUIDE_SRD_8005
108   120
109   121 -- ANCHOR  : MD11_VG_TEST_1278
110   122 -- SOURCE  : VGUIDE_SRD_5205
111   123
112   124 -- ANCHOR  : MD11_VG_TEST_1202
113   125 -- SOURCE  : VGUIDE_SRD_5206
114   126
115   127 -- ANCHOR  : MD11_VG_TEST_1357
116   128 -- SOURCE  : VGUIDE_SRD_3041
117   129
118   130 -- ANCHOR  : MD11_VG_TEST_1303
119   131 -- SOURCE  : VGUIDE_SRD_5304
120   132
121   133 -- ANCHOR  : MD11_VG_TEST_1417
122   134 -- SOURCE  : VGUIDE_SRD_3026
123   135
124   136 -- ANCHOR  : MD11_VG_TEST_1403
125   137 -- SOURCE  : VGUIDE_SRD_5618
126   138
127   139 -- ANCHOR  : MD11_VG_TEST_1513
128   140 -- SOURCE  : VGUIDE_SRD_2837
129   141
130   142 -- ANCHOR  : MD11_VG_TEST_1503
131   143 -- SOURCE  : VGUIDE_SRD_5655
132   144
133   145 -- ANCHOR  : MD11_VG_TEST_3282
134   146 -- SOURCE  : VGUIDE_SRD_3072
135   147
136   148 -- ANCHOR  : MD11_VG_TEST_3283
137   149 -- SOURCE  : VGUIDE_SRD_3103
138   150
139   151 -- ANCHOR  : MD11_VG_TEST_3284
140   152 -- SOURCE  : VGUIDE_SRD_3221
141   153
142   154 -- ANCHOR  : MD11_VG_TEST_3285
143   155 -- SOURCE  : VGUIDE_SRD_3150
144   156
145   157 -- ANCHOR  : MD11_VG_TEST_3286
146   158 -- SOURCE  : VGUIDE_SRD_3190
147   159
148   160 -- ANCHOR  : MD11_VG_TEST_3287
149   161 -- SOURCE  : VGUIDE_SRD_2810
150   162
151   163 -- ANCHOR  : MD11_VG_TEST_3288
152   164 -- SOURCE  : VGUIDE_SRD_2848
153   165
154   166 -- ANCHOR  : MD11_VG_TEST_3289
155   167 -- SOURCE  : VGUIDE_SRD_2891
156   168
157   169 -- ANCHOR  : MD11_VG_TEST_3899
158   170 -- SOURCE  : VGUIDE_SRD_8286
159   171
160   172 -- ANCHOR  : MD11_VG_TEST_3823
161   173 -- SOURCE  : VGUIDE_SRD_8235
162   174
163   175 -- ANCHOR  : MD11_VG_TEST_3824
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
164   176 -- SOURCE  : VGUIDE_SRD_8201
165   177
166   178 -- ANCHOR  : MD11_VG_TEST_3825
167   179 -- SOURCE  : VGUIDE_SRD_8152
168   180
169   181 -- ANCHOR  : MD11_VG_TEST_3826
170   182 -- SOURCE  : VGUIDE_SRD_8118
171   183
172   184 -- ANCHOR  : MD11_VG_TEST_3827
173   185 -- SOURCE  : VGUIDE_SRD_2840
174   186
175   187 -- ANCHOR  : MD11_VG_TEST_3828
176   188 -- SOURCE  : VGUIDE_SRD_5555
177   189
178   190 -- ANCHOR  : MD11_VG_TEST_3829
179   191 -- SOURCE  : VGUIDE_SRD_2894
180   192
181   193
182   194
183   195 VERIFY COMPLIANCE WITH SRD SECTION:
184   196
185   197  MD11 Vertical Guidance Altitude Target
186   198
187   199  Vertical Guidance Altitude Target (Airmass Ascent)............10.2.1.3
188   200  Vertical Guidance Altitude Target (Clb Intermediate Level)... 10.2.2.3
189   201  Vertical Guidance Altitude Target (Cruise Level).............10.2.3.3
190   202  Vertical Guidance Altitude Target (Descent Path).............10.2.4.3
191   203  Vertical Guidance Altitude Target (Desc Int Level)...........10.2.5.3
192   204  Vertical Guidance Altitude Target (Early Descent)............10.2.6.3
193   205  Vertical Guidance Altitude Target (Late Descent).............10.2.7.3
194   206  Vertical Guidance Altitude Target (Desc Path Overspd)........10.2.8.3
195   207  Vertical Guidance Altitude Target (HM).......................10.2.9.3
196   208  Vertical Guidance Altitude Target (Airmass Descent)..........10.2.10.3
197   209  Vertical Guidance Altitude Target (EO Takeoff)...............10.2.11.3
198   210  Vertical Guidance Altitude Target (EO Takeoff Level Acc)......10.2.12.3
199   211  Vertical Guidance Altitude Target (Engine-out Driftdown)......10.2.13.3
200   212
201   213  Altitude Target and Next Altitude Target for Display On The PFD Altitude Tape (10.4.
          » 2)
202   214   (Altitude Target).........................................10.4.2.1
203   215   (Next Altitude Target)....................................10.4.2.2
204   216
205   217
206   218
207   219 OVERALL TESTING APPROACH:
208   220
209   221 Tool Used:      Instruction Set Simulator
210   222
211   223 Description:    This test procedure verifies the SRD requirements for
212   224                 VG_ALTITUDE_TARGET_PKG.SELECT_ALT_TARGET. The Test Generated
213   225                 System (TGS), running under the ISS platform, was chosen to
214   226                 enable automated testing for both structural coverage and
215   227                 testing of the requirements.
216   228
217   229 Setup:          The driver CTP_MD11_VG_SEL_ALT_TGT.DRV is
218   230                 compiled and linked against the current library containing the
219   231                 library under test. Use departmental symbols and logicals to
220   232                 run this test. The minimal files needed to run this test are:
221   233                 CTP_MD11_VG_SEL_ALT_TGT.DRV,
222   234                 CTP_MD11_VG_SEL_ALT_TGT.DPN,
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
223   235                        CTP_MD11_VG_SEL_ALT_TGT.TDF.
224   236
225   237  Disposition:    TBD
226   238
227   239  ********************************************************************
228   240  INITIALIZATIONS:
229   241
230   242  FP_DEF_TOL = 0.0
231   243
232   244  define symbol AIRMASSASCNT := Opproctyp_Types.AIRMASSASCNT
233   245  define symbol CLBINTLEVEL  := Opproctyp_Types.CLBINTLEVEL
234   246  define symbol EOTAKEOFF    := Opproctyp_Types.EOTAKEOFF
235   247  define symbol EOLEVELACCEL := Opproctyp_Types.EOLEVELACCEL
236   248  define symbol CRZLEVEL     := Opproctyp_Types.CRZLEVEL
237   249  define symbol DESCENTPATH  := Opproctyp_Types.DESCENTPATH
238   250  define symbol DESINTLEVEL  := Opproctyp_Types.DESINTLEVEL
239   251  define symbol LATEDESCENT  := Opproctyp_Types.LATEDESCENT
240   252  define symbol DESPATHOVER  := Opproctyp_Types.DESPATHOVER
241   253  define symbol EARLYDESCENT := Opproctyp_Types.EARLYDESCENT
242   254  define symbol HOLDTOMANUAL := Opproctyp_Types.HOLDTOMANUAL
243   255  define symbol AIRMASSDSCNT := Opproctyp_Types.AIRMASSDSCNT
244   256  define symbol EODRIFTDOWN  := Opproctyp_Types.EODRIFTDOWN
245   257
246   258  define symbol PREFLIGHT := Fmcs_Base_Types.PREFLIGHT
247   259  define symbol TAKEOFF   := Fmcs_Base_Types.TAKEOFF
248   260  define symbol CLIMB     := Fmcs_Base_Types.CLIMB
249   261  define symbol CRUISE    := Fmcs_Base_Types.CRUISE
250   262  define symbol DESCENT   := Fmcs_Base_Types.DESCENT
251   263  define symbol APPROACH  := Fmcs_Base_Types.Flight_Phase_Type'(Fmcs_Base_Types.APPROAC
          » H)
252   264  define symbol GOAROUND  := Fmcs_Base_Types.GOAROUND
253   265  define symbol DONE      := Fmcs_Base_Types.DONE
254   266
255   267  define symbol MASTER := Fmcs_Base_Types.MASTER
256   268
257   269  -- define symbol NONE                := Fmcs_Mdxx_Base_Types.Mdxx_Engage_Mode_Type'
          » (Fmcs_Mdxx_Base_Types.NONE)
258   270  define symbol WINDSHEAR_MAX_THRUST  := Fmcs_Mdxx_Base_Types.WINDSHEAR_MAX_THRUST
259   271  define symbol PITCH_SPEED           := Fmcs_Mdxx_Base_Types.PITCH_SPEED
260   272  -- define symbol PITCH_IDLE          := Fmcs_Mdxx_Base_Types.PITCH_IDLE
261   273  define symbol ALT_CAPT_SPEED        := Fmcs_Mdxx_Base_Types.ALT_CAPT_SPEED
262   274  define symbol ALT_CAPT_IDLE_THRUST  := Fmcs_Mdxx_Base_Types.ALT_CAPT_IDLE_THRUST
263   275  define symbol ALT_HOLD_SPEED        := Fmcs_Mdxx_Base_Types.ALT_HOLD_SPEED
264   276  define symbol ALT_HOLD_IDLE_THRUST  := Fmcs_Mdxx_Base_Types.ALT_HOLD_IDLE_THRUST
265   277  define symbol SPEED_IDLE_THRUST     := Fmcs_Mdxx_Base_Types.SPEED_IDLE_THRUST
266   278  define symbol SPEED_MAX_THRUST      := Fmcs_Mdxx_Base_Types.SPEED_MAX_THRUST
267   279  define symbol VS_SPEED              := Fmcs_Mdxx_Base_Types.VS_SPEED
268   280  define symbol ALT_HOLD_MAX_THRUST   := Fmcs_Mdxx_Base_Types.ALT_HOLD_MAX_THRUST
269   281  define symbol ALT_CAPT_MAX_THRUST   := Fmcs_Mdxx_Base_Types.ALT_CAPT_MAX_THRUST
270   282  define symbol TOGA_SPEED_MAX_THRUST := Fmcs_Mdxx_Base_Types.TOGA_SPEED_MAX_THRUST
271   283
272   284  SUT_VARS
273   285
274   286  -- enumeration types
275   287  AIRMASSASCNT
276   288  CLBINTLEVEL
277   289  EOTAKEOFF
278   290  EOLEVELACCEL
279   291  CRZLEVEL
280   292  DESCENTPATH
```

Beyond Compare 2.1.1

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
281   293  DESINTLEVEL
282   294  LATEDESCENT
283   295  DESPATHOVER
284   296  EARLYDESCENT
285   297  HOLDTOMANUAL
286   298  AIRMASSDSCNT
287   299  EODRIFTDOWN
288   300
289   301  PREFLIGHT
290   302  TAKEOFF
291   303  CLIMB
292   304  CRUISE
293   305  DESCENT
294   306  APPROACH
295   307  GOAROUND
296   308  DONE
297   309
298   310  MASTER
299   311
300   312  -- NONE
301   313  WINDSHEAR_MAX_THRUST
302   314  PITCH_SPEED
303   315  -- PITCH_IDLE
304   316  ALT_CAPT_SPEED
305   317  ALT_CAPT_IDLE_THRUST
306   318  ALT_HOLD_SPEED
307   319  ALT_HOLD_IDLE_THRUST
308   320  SPEED_IDLE_THRUST
309   321  SPEED_MAX_THRUST
310   322  VS_SPEED
311   323  ALT_HOLD_MAX_THRUST
312   324  ALT_CAPT_MAX_THRUST
313   325  TOGA_SPEED_MAX_THRUST
314   326
315   327  -- variables
316   328  VG_ONLY_INT_DPKG.VGACTIVE
317   329  MDXX_LGBM.ACTPRIMARY
318   330  VG_HS_DPKG.DATA.FLTPHASE
319   331  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS
320   332  VG_INPUTS_INT_DPKG.ACALT.ALT
321   333  VG_INPUTS_INT_DPKG.CRZALT
322   334  VG_INPUTS_INT_DPKG.CRZALTVAL
323   335  VG_INPUTS_INT_DPKG.FCCENGDMODE
324   336  VG_INPUTS_INT_DPKG.FCCSELALT
325   337  VG_INPUTS_INT_DPKG.MDA().ALT
326   338  VG_INPUTS_INT_DPKG.MDA().VAL
327   339  MDXX_LGB_TPKG.ACTPRIMARY
328   340  VG_ONLY_INT_DPKG.DESTGTALT
329   341  VG_ONLY_INT_DPKG.NXTCLBTGT
330   342  VG_ONLY_INT_DPKG.NXTDESTGT
331   343  VG_ONLY_INT_DPKG.STEPCLBAHD
332   344  VG_ONLY_INT_DPKG.VGREFALT
333   345  VG_OUTPUTS_INT_DPKG.ALTTAPETGT
334   346  VG_OUTPUTS_INT_DPKG.NXTALTTGT
335   347  VG_OUTPUTS_INT_DPKG.NXTALTTGTV
336   348  VG_OUTPUTS_INT_DPKG.OPPROC
337   349  VG_OUTPUTS_INT_DPKG.VGALTTGT
338   350  VG_OUTPUTS_INT_DPKG.VGALTTGTVL
339   351  VG_AC_UNIQUE_PKG.ALTITUDE_BUG_ALLOWED
340   352  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
341   353 VG_INPUTS_INT_DPKG.AIRBORNE
342   354 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE
343   355 VG_INPUTS_INT_DPKG.MINIMUM_CERTIFIED_ALTITUDE
344   356
345   357 END_SUT_VARS
346   358
347   359 ************************************************************************
348   360
349   361
350   362 -- TESTID: XX1
351   363
352   364 -- Test Name:   VGSELALT_XX1
353   365 -- Altitude Target and Next Altitude Target for Display on the PFD Altitude Tape comp
          » uted at 10Hz
354   366 -- SRD REFERENCE 10.4.2 a. (VGUIDE_SRD_7002, MD11_VG_TEST_2057)
355   367 --
356   368 -- The Altitude Target and Next Altitude Target for Display On The PFD Altitude Tape
357   369 -- is computed through the EXECUTE procedure contained in VG_EXEC (which calls the
358   370 -- VG_FCC_ALTITUDE_TARGET_PKG and VG_EIS_ALTITUDE_TARGET_PKG modules) which is in tur
          » n called by the GUIDANCE_EXECUTIVE
359   371 -- (ACM Gen:15) using procedure EXECUTE_FAST_PROCESSES at a rate of 10Hz.
360   372 --
361   373 --
362   374 -- NOTES:
363   375 --
364   376 -- FM_MAIN is the "entry point" for the FM partition,
365   377 -- it creates and starts the processes in the FM partition
366   378 -- and calls OPS_FMF_FOREGROUND.
367   379 --
368   380 -- OPS_FMF_FOREGROUND is the module that starts the FMF
369   381 -- foreground processes. It is a high level executive for
370   382 -- all periodic processing in the FM partition and calls
371   383 -- GUIDANCE_EXECUTIVE.
372   384 --
373   385 -- GUIDANCE_EXECUTIVE provides all the elements necessary
374   386 -- to control both vertical and lateral guidance, including
375   387 -- start-up init logic, slow and fast guidance processing, etc.
376   388 -- It calls the VG_EXEC module which controls the vertical guidance
377   389 -- data and execution.
378   390 --
379   391 -- VG_EXEC module contains the EXECUTE procedure which controls the
380   392 -- execution flow for all vertical guidance modules.
381   393 --
382   394 --
383   395
384   396
385   397 -- TESTID: XX2
386   398
387   399 -- Test Name:   VGSELALT_XX2
388   400 -- SRD REFERENCE 10.2.1.3   Vertical Guidance Altitude Target (Airmass Ascent)
          »    (VGUIDE_SRD_2902, MD11_VG_TEST_1178)
389   401 -- SRD REFERENCE 10.2.2.3   Vertical Guidance Altitude Target (Clb Intermediate Level
          » ) (VGUIDE_SRD_5205, MD11_VG_TEST_1278)
390   402 -- SRD REFERENCE 10.2.3.3   Vertical Guidance Altitude Target (Cruise Level)
          »    (VGUIDE_SRD_3041, MD11_VG_TEST_1357)
391   403 -- SRD REFERENCE 10.2.4.3   Vertical Guidance Altitude Target (Descent Path)
          »    (VGUIDE_SRD_3072, MD11_VG_TEST_3282)
392   404 -- SRD REFERENCE 10.2.5.3   Vertical Guidance Altitude Target (Desc Int Level)
          »    (VGUIDE_SRD_3103, MD11_VG_TEST_3283)
393   405 -- SRD REFERENCE 10.2.6.3   Vertical Guidance Altitude Target (Early Descent)
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
                    »    (VGUIDE_SRD_3221, MD11_VG_TEST_3284)
 394   406 -- SRD REFERENCE 10.2.7.3   Vertical Guidance Altitude Target (Late Descent)
                    »    (VGUIDE_SRD_3150, MD11_VG_TEST_3285)
 395   407 -- SRD REFERENCE 10.2.8.3   Vertical Guidance Altitude Target (Desc Path Overspd)
                    »    (VGUIDE_SRD_3190, MD11_VG_TEST_3286)
 396   408 -- SRD REFERENCE 10.2.9.3   Vertical Guidance Altitude Target (HM)
                    »    (VGUIDE_SRD_2810, MD11_VG_TEST_3287)
 397   409 -- SRD REFERENCE 10.2.10.3  Vertical Guidance Altitude Target (Airmass Descent)
                    »    (VGUIDE_SRD_2848, MD11_VG_TEST_3288)
 398   410 -- SRD REFERENCE 10.2.11.3  Vertical Guidance Altitude Target (EO Takeoff)
                    »    (VGUIDE_SRD_3026, MD11_VG_TEST_1417)
 399   411 -- SRD REFERENCE 10.2.12.3  Vertical Guidance Altitude Target (EO Takeoff Level Acc)
                    »    (VGUIDE_SRD_2837, MD11_VG_TEST_1513)
 400   412 -- SRD REFERENCE 10.2.13.3  Vertical Guidance Altitude Target (EO Driftdown)
                    »    (VGUIDE_SRD_2891, MD11_VG_TEST_3289)
 401   413 --
 402   414 -- The Vertical Guidance Altitude Target is computed through the EXECUTE procedure
 403   415 -- contained in VG_EXEC (which calls the VG_FCC_ALTITUDE_TARGET_PKG and VG_EIS_ALTITU
                    » DE_TARGET_PKG) which
 404   416 -- is in turn called by the GUIDANCE_EXECUTIVE using procedure EXECUTE_FAST_PROCESSES
                    »  at
 405   417 -- a rate of 10Hz.
 406   418 --
 407   419 --
 408   420 -- NOTES:
 409   421 --
 410   422 -- FM_MAIN is the "entry point" for the FM partition,
 411   423 -- it creates and starts the processes in the FM partition
 412   424 -- and calls OPS_FMF_FOREGROUND.
 413   425 --
 414   426 -- OPS_FMF_FOREGROUND is the module that starts the FMF
 415   427 -- foreground processes. It is a high level executive for
 416   428 -- all periodic processing in the FM partition and calls
 417   429 -- GUIDANCE_EXECUTIVE.
 418   430 --
 419   431 -- GUIDANCE_EXECUTIVE provides all the elements necessary
 420   432 -- to control both vertical and lateral guidance, including
 421   433 -- start-up init logic, slow and fast guidance processing, etc.
 422   434 -- It calls the VG_EXEC module which controls the vertical guidance
 423   435 -- data and execution.
 424   436 --
 425   437 -- VG_EXEC module contains the EXECUTE procedure which controls the
 426   438 -- execution flow for all vertical guidance modules.
 427   439 --
 428   440 --
 429   441
 430   442
 431   443 TESTID: 1
 432   444
 433   445 Test Name:   VGSELALT_001
 434   446 The altitude and next altitude Target shall be invalid when the guidance/control/annu
                    » nciation criteria
 435   447 (as defined in 10.1.1) are not satisfied.
 436   448 SRD Reference: 10.4.2 b. (VGUIDE_SRD_7000, MD11_VG_TEST_2059)
 437   449 Notes: Vertical Guidance Active (Vgactive).  True means all the conditions for allowi
                    » ng Vertical Guidance
 438   450 to be active are true.  These conditions are explicitly stated in SRD Section 10.1.1.
                    » 1b. and comprise
 439   451 the guidance process, the control process, and the annunciation process.
 440   452
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
441    453
442    454 -- INPUTS:
443    455 Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude          := -1000.0
444    456 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
445    457 VG_INPUTS_INT_DPKG.AIRBORNE                            := TRUE
446    458 VG_ONLY_INT_DPKG.VGACTIVE                              := FALSE
447    459
448    460 !run_test ()
449    461
450    462 -- OUTPUTS:
451    463 VG_OUTPUTS_INT_DPKG.NXTALTTGTV              = FALSE
452    464 VG_OUTPUTS_INT_DPKG.VGALTTGTVL              = FALSE
453    465
454    466
455    467 TESTID: 2
456    468
457    469 Test Name:   VGSELALT_002
458    470 Altitude Target
459    471 SRD Reference: 10.4.2.1
460    472
461    473
462    474 -- INPUTS:
463    475 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
464    476 VG_ONLY_INT_DPKG.VGACTIVE                              := TRUE
465    477 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
466    478 VG_HS_DPKG.DATA.FLTPHASE                               := CRUISE
467    479 VG_INPUTS_INT_DPKG.CRZALT                              := 25000.0
468    480 VG_INPUTS_INT_DPKG.CRZALTVAL                           := TRUE
469    481 VG_ONLY_INT_DPKG.VGREFALT                              := 20000.0
470    482 VG_OUTPUTS_INT_DPKG.OPPROC                             := CLBINTLEVEL
471    483 VG_OUTPUTS_INT_DPKG.VGALTTGT                           := 22000.0
472    484 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                         := TRUE
473    485 VG_ONLY_INT_DPKG.NXTCLBTGT                             := 18000.0
474    486 VG_INPUTS_INT_DPKG.ACALT.ALT                          := 21000.0
475    487 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
476    488 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := TRUE
477    489
478    490 !run_test ()
479    491
480    492 -- OUTPUTS:
481    493 VG_OUTPUTS_INT_DPKG.VGALTTGTVL             = TRUE
482    494 VG_OUTPUTS_INT_DPKG.ALTTAPETGT             = 22000.0
483    495 VG_OUTPUTS_INT_DPKG.NXTALTTGT              = 25000.0
484    496 VG_OUTPUTS_INT_DPKG.NXTALTTGTV             = TRUE
485    497
486    498
487    499 TESTID: 3
488    500
489    501 Test Name:   VGSELALT_003
490    502 Altitude Target
491    503 SRD Reference: 10.4.2.1
492    504
493    505
494    506 -- INPUTS:
495    507 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
496    508 VG_ONLY_INT_DPKG.VGACTIVE                              := TRUE
497    509 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
498    510 VG_OUTPUTS_INT_DPKG.OPPROC                             := AIRMASSASCNT
499    511 VG_HS_DPKG.DATA.FLTPHASE                               := CRUISE
500    512 VG_INPUTS_INT_DPKG.ACALT.ALT                          := 21000.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
501    513 VG_INPUTS_INT_DPKG.CRZALT                             := 25000.0
502    514 VG_INPUTS_INT_DPKG.CRZALTVAL                          := TRUE
503    515 VG_ONLY_INT_DPKG.VGREFALT                             := 20000.0
504    516 VG_OUTPUTS_INT_DPKG.VGALTTGT                          := 22000.0
505    517 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
506    518 VG_ONLY_INT_DPKG.NXTCLBTGT                            := 18000.0
507    519 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
508    520 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
509    521
510    522 !run_test ()
511    523
512    524 -- OUTPUTS:
513    525 VG_OUTPUTS_INT_DPKG.VGALTTGTVL = TRUE
514    526 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 22000.0
515    527 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 25000.0
516    528 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
517    529
518    530
519    531 TESTID: 4
520    532
521    533 Test Name:   VGSELALT_004
522    534 Altitude Target
523    535 SRD Reference: 10.4.2.1
524    536
525    537
526    538 -- INPUTS:
527    539 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE
528    540 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
529    541 VG_HS_DPKG.DATA.FLTPHASE                              := TAKEOFF
530    542 VG_INPUTS_INT_DPKG.ACALT.ALT                          := 21000.0
531    543 VG_INPUTS_INT_DPKG.CRZALT                             := 25000.0
532    544 VG_INPUTS_INT_DPKG.CRZALTVAL                          := TRUE
533    545 VG_ONLY_INT_DPKG.VGREFALT                             := 20000.0
534    546 VG_OUTPUTS_INT_DPKG.OPPROC                            := CLBINTLEVEL
535    547 VG_OUTPUTS_INT_DPKG.VGALTTGT                          := 20000.0
536    548 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
537    549 VG_ONLY_INT_DPKG.NXTCLBTGT                            := 18000.0
538    550 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE         := 19000.0
539    551 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
540    552 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
541    553
542    554 !run_test ()
543    555
544    556 -- OUTPUTS:
545    557 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE  = 19000.0
546    558 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                 = 20000.0
547    559 VG_OUTPUTS_INT_DPKG.NXTALTTGT                  = 18000.0
548    560 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                 = TRUE
549    561
550    562
551    563 TESTID: 5
552    564
553    565 Test Name:   VGSELALT_005
554    566 Altitude Target
555    567 SRD Reference: 10.4.2.1
556    568
557    569
558    570 -- INPUTS:
559    571 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE
560    572 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
561    573 VG_HS_DPKG.DATA.FLTPHASE                                    := TAKEOFF
562    574 VG_INPUTS_INT_DPKG.ACALT.ALT                               := 21000.0
563    575 VG_INPUTS_INT_DPKG.CRZALT                                  := 25000.0
564    576 VG_INPUTS_INT_DPKG.CRZALTVAL                               := TRUE
565    577 VG_ONLY_INT_DPKG.VGREFALT                                  := 20000.0
566    578 VG_OUTPUTS_INT_DPKG.OPPROC                                 := CLBINTLEVEL
567    579 VG_OUTPUTS_INT_DPKG.VGALTTGT                               := 20000.0
568    580 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                             := TRUE
569    581 VG_ONLY_INT_DPKG.NXTCLBTGT                                 := 18000.0
570    582 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE              := 18000.0
571    583 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
572    584 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
573    585
574    586 !run_test ()
575    587
576    588 -- OUTPUTS:
577    589 VG_INPUTS_INT_DPKG.MAXIMUM_CERTIFIED_ALTITUDE  = 18000.0
578    590 VG_INPUTS_INT_DPKG.CRZALT                      = 25000.0
579    591 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                 = 20000.0
580    592 VG_OUTPUTS_INT_DPKG.NXTALTTGT                  = 25000.0
581    593 VG_OUTPUTS_INT_DPKG.NXTALTTGTV                 = TRUE
582    594
583    595
584    596
585    597 TESTID: 6
586    598
587    599 Test Name:   VGSELALT_006
588    600 Next Altitude Target
589    601 SRD Reference: 10.4.2.2
590    602
591    603
592    604 -- INPUTS:
593    605 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call        := FALSE
594    606 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS          := MASTER
595    607 VG_HS_DPKG.DATA.FLTPHASE                           := CRUISE
596    608 VG_INPUTS_INT_DPKG.ACALT.ALT                       := 21000.0
597    609 VG_INPUTS_INT_DPKG.CRZALT                          := 25000.0
598    610 VG_INPUTS_INT_DPKG.CRZALTVAL                       := TRUE
599    611 VG_ONLY_INT_DPKG.NXTCLBTGT                         := 18000.0
600    612 VG_ONLY_INT_DPKG.VGREFALT                          := 20000.0
601    613 VG_OUTPUTS_INT_DPKG.OPPROC                         := CLBINTLEVEL
602    614 VG_OUTPUTS_INT_DPKG.VGALTTGT                       := 22000.0
603    615 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                     := FALSE
604    616 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
605    617 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
606    618
607    619 !run_test ()
608    620
609    621 -- OUTPUTS:
610    622 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 25000.0
611    623 VG_INPUTS_INT_DPKG.CRZALT      = 25000.0
612    624 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
613    625 VG_OUTPUTS_INT_DPKG.VGALTTGTVL = FALSE
614    626
615    627
616    628 TESTID: 7
617    629
618    630 Test Name:   VGSELALT_007
619    631 Next Altitude Target
620    632 SRD Reference:  10.4.2.2
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
621    633
622    634
623    635 -- INPUTS:
624    636 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
625    637 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
626    638 VG_HS_DPKG.DATA.FLTPHASE                              := CLIMB
627    639 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
628    640 VG_INPUTS_INT_DPKG.CRZALT                            := 25000.0
629    641 VG_ONLY_INT_DPKG.NXTCLBTGT                           := 19000.0
630    642 VG_ONLY_INT_DPKG.VGREFALT                            := 20000.0
631    643 VG_OUTPUTS_INT_DPKG.OPPROC                           := AIRMASSASCNT
632    644 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := FALSE
633    645 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 22000.0
634    646 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := TRUE
635    647
636    648 !run_test ()
637    649
638    650 -- OUTPUTS:
639    651 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 19000.0
640    652 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
641    653 VG_OUTPUTS_INT_DPKG.VGALTTGTVL = FALSE
642    654
643    655
644    656 TESTID: 8
645    657
646    658 Test Name:   VGSELALT_008
647    659 Next Altitude Target
648    660 SRD Reference:  10.4.2.2
649    661
650    662
651    663 -- INPUTS:
652    664 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
653    665 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
654    666 VG_HS_DPKG.DATA.FLTPHASE                              := TAKEOFF
655    667 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
656    668 VG_INPUTS_INT_DPKG.CRZALT                            := 25000.0
657    669 VG_INPUTS_INT_DPKG.CRZALTVAL                         := FALSE
658    670 VG_ONLY_INT_DPKG.NXTCLBTGT                           := 20000.0
659    671 VG_ONLY_INT_DPKG.VGREFALT                            := 20000.0
660    672 VG_OUTPUTS_INT_DPKG.OPPROC                           := CLBINTLEVEL
661    673 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
662    674 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
663    675 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
664    676
665    677 !run_test ()
666    678
667    679 -- OUTPUTS:
668    680 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 20000.0
669    681 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
670    682
671    683
672    684 TESTID: 9
673    685
674    686 Test Name:   VGSELALT_009
675    687 Next Altitude Target
676    688 SRD Reference:  10.4.2.2
677    689
678    690
679    691 -- INPUTS:
680    692 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
681    693 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
682    694 VG_HS_DPKG.DATA.FLTPHASE                               := CRUISE
683    695 VG_INPUTS_INT_DPKG.ACALT.ALT                          := 21000.0
684    696 VG_INPUTS_INT_DPKG.CRZALT                             := 25000.0
685    697 VG_INPUTS_INT_DPKG.CRZALTVAL                          := TRUE
686    698 VG_ONLY_INT_DPKG.NXTCLBTGT                            := 18000.0
687    699 VG_ONLY_INT_DPKG.VGREFALT                             := 20000.0
688    700 VG_OUTPUTS_INT_DPKG.OPPROC                            := CLBINTLEVEL
689    701 VG_OUTPUTS_INT_DPKG.VGALTTGT                          := 22000.0
690    702 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
691    703 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
692    704 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
693    705
694    706 !run_test ()
695    707
696    708 -- OUTPUTS:
697    709 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 25000.0
698    710 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
699    711
700    712
701    713 TESTID: 10
702    714
703    715 Test Name:   VGSELALT_010
704    716 Next altitude Target
705    717 SRD Reference:  10.4.2.2
706    718
707    719
708    720 -- INPUTS:
709    721 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
710    722 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
711    723 VG_HS_DPKG.DATA.FLTPHASE                              := CRUISE
712    724 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
713    725 VG_INPUTS_INT_DPKG.CRZALT                            := 23000.0
714    726 VG_INPUTS_INT_DPKG.CRZALTVAL                         := TRUE
715    727 VG_ONLY_INT_DPKG.NXTCLBTGT                           := 18000.0
716    728 VG_ONLY_INT_DPKG.VGREFALT                            := 20000.0
717    729 VG_OUTPUTS_INT_DPKG.OPPROC                           := CLBINTLEVEL
718    730 VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 22000.0
719    731 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
720    732 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
721    733 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
722    734
723    735 !run_test ()
724    736
725    737 -- OUTPUTS:
726    738 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 23000.0
727    739 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
728    740
729    741
730    742 TESTID: 11
731    743
732    744 Test Name:   VGSELALT_011
733    745 Next altitude Target
734    746 SRD Reference:  10.4.2.2
735    747
736    748
737    749 -- INPUTS:
738    750 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
739    751 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
740    752 VG_HS_DPKG.DATA.FLTPHASE                              := CRUISE
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
741    753 VG_INPUTS_INT_DPKG.ACALT.ALT                              := 21000.0
742    754 VG_INPUTS_INT_DPKG.CRZALT                                 := 27000.0
743    755 VG_ONLY_INT_DPKG.NXTCLBTGT                                := 15000.0
744    756 VG_ONLY_INT_DPKG.VGREFALT                                 := 20000.0
745    757 VG_OUTPUTS_INT_DPKG.OPPROC                                := AIRMASSASCNT
746    758 VG_OUTPUTS_INT_DPKG.VGALTTGT                              := 25500.0
747    759 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                            := TRUE
748    760 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT      := 21000.0
749    761 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL      := FALSE
750    762
751    763 !run_test ()
752    764
753    765 -- OUTPUTS:
754    766 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 27000.0
755    767 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
756    768
757    769
758    770 TESTID: 12
759    771
760    772 Test Name:   VGSELALT_012
761    773 Next altitude Target
762    774 SRD Reference:  10.4.2.2
763    775
764    776
765    777 -- INPUTS:
766    778 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call              := FALSE
767    779 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS                := MASTER
768    780 VG_HS_DPKG.DATA.FLTPHASE                                 := CRUISE
769    781 VG_INPUTS_INT_DPKG.ACALT.ALT                             := 21000.0
770    782 VG_INPUTS_INT_DPKG.CRZALT                                := 26000.0
771    783 VG_INPUTS_INT_DPKG.FCCSELALT                             := 26000.0
772    784 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT     := 21000.0
773    785 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL     := FALSE
774    786 VG_ONLY_INT_DPKG.NXTDESTGT                               := 15000.0
775    787 VG_ONLY_INT_DPKG.VGREFALT                                := 26000.0
776    788 VG_OUTPUTS_INT_DPKG.OPPROC                               := CRZLEVEL
777    789 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                           := TRUE
778    790
779    791 !run_test ()
780    792
781    793 -- OUTPUTS:
782    794 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 26000.0
783    795 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
784    796
785    797
786    798 TESTID: 13
787    799
788    800 Test Name:   VGSELALT_013
789    801 Next altitude Target
790    802 SRD Reference:  10.4.2.2
791    803
792    804
793    805 -- INPUTS:
794    806 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call              := FALSE
795    807 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS                := MASTER
796    808 VG_HS_DPKG.DATA.FLTPHASE                                 := CRUISE
797    809 VG_INPUTS_INT_DPKG.ACALT.ALT                             := 17000.0
798    810 VG_INPUTS_INT_DPKG.CRZALT                                := 26000.0
799    811 VG_INPUTS_INT_DPKG.CRZALTVAL                             := TRUE
800    812 VG_INPUTS_INT_DPKG.FCCSELALT                             := 14000.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
801   813 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 16000.0
802   814 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := TRUE
803   815 VG_ONLY_INT_DPKG.NXTDESTGT                            := 15000.0
804   816 VG_ONLY_INT_DPKG.VGREFALT                             := 26000.0
805   817 VG_OUTPUTS_INT_DPKG.OPPROC                            := CRZLEVEL
806   818 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
807   819
808   820 !run_test ()
809   821
810   822 -- OUTPUTS:
811   823 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 16000.0
812   824 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
813   825
814   826
815   827 TESTID: 14
816   828
817   829 Test Name:   VGSELALT_014
818   830 Next altitude Target
819   831 SRD Reference:  10.4.2.2
820   832
821   833
822   834 -- INPUTS:
823   835 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call         := TRUE
824   836 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS           := MASTER
825   837 VG_HS_DPKG.DATA.FLTPHASE                            := CRUISE
826   838 VG_INPUTS_INT_DPKG.ACALT.ALT                        := 21000.0
827   839 VG_INPUTS_INT_DPKG.CRZALT                           := 26000.0
828   840 VG_INPUTS_INT_DPKG.CRZALTVAL                        := TRUE
829   841 VG_INPUTS_INT_DPKG.FCCSELALT                        := 14000.0
830   842 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
831   843 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := TRUE
832   844 VG_ONLY_INT_DPKG.NXTDESTGT                          := -1000.0
833   845 VG_ONLY_INT_DPKG.STEPCLBAHD                         := TRUE
834   846 VG_ONLY_INT_DPKG.VGREFALT                           := 25000.0
835   847 VG_OUTPUTS_INT_DPKG.OPPROC                          := CRZLEVEL
836   848 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                      := FALSE
837   849
838   850 !run_test ()
839   851
840   852 -- OUTPUTS:
841   853 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 26000.0
842   854 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
843   855 VG_OUTPUTS_INT_DPKG.VGALTTGTVL = TRUE
844   856
845   857
846   858 TESTID: 15
847   859
848   860 Test Name:   VGSELALT_015
849       Next altitude Target
850       SRD Reference:  10.4.2.2
      861 Next altitude Target  (10.4.2.2)
      862
      863 During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
      864 the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
      865 Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
          »  is Descent Path.
      866
      867 this case to verify when the Vertical Guidance Operational Procedure is Descent Path,
      868 the Vertical Guidance Reference Altitude less than the Descent Target Altitude ,
      869 then he Altitude Target Is equal to the Descent Target Altitude
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
      870  SRD Reference:  VGUIDE_SRD_7006
      871
      872  SRD Reference:  10.4.2.2, VGUIDE_SRD_7006
 851  873
 852  874
 853  875  -- INPUTS:
 854  876  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call              := FALSE
 855  877  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS               := MASTER
 856  878  VG_HS_DPKG.DATA.FLTPHASE                                := DESCENT
 857  879  VG_INPUTS_INT_DPKG.ACALT.ALT                            := 20000.0
 858  880  VG_INPUTS_INT_DPKG.FCCSELALT                            := 14000.0
 859  881  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT    := 21000.0
 860  882  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL    := FALSE
 861  883  VG_ONLY_INT_DPKG.DESTGTALT                              := 20000.0
 862  884  VG_ONLY_INT_DPKG.NXTDESTGT                              := 25000.0
 863  885  VG_ONLY_INT_DPKG.VGREFALT                               := 25000.0
 864  886  VG_OUTPUTS_INT_DPKG.OPPROC                              := DESCENTPATH
 865  887  VG_OUTPUTS_INT_DPKG.VGALTTGT                            := 19500.0
 866  888  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                          := TRUE
 867  889
 868  890  !run_test ()
 869  891
 870  892  -- OUTPUTS:
 871  893  VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 20000.0
 872  894  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 25000.0
 873  895  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
 874  896
 875  897
 876  898  TESTID: 16
 877  899
 878  900  Test Name:   VGSELALT_016
 879  901  Next altitude Target
 880  902  SRD Reference:  10.4.2.2
 881  903
 882  904
 883  905  -- INPUTS:
 884  906  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call              := TRUE
 885  907  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS               := MASTER
 886  908  VG_HS_DPKG.DATA.FLTPHASE                                := DESCENT
 887  909  VG_INPUTS_INT_DPKG.ACALT.ALT                            := 16000.0
 888  910  VG_INPUTS_INT_DPKG.FCCENGDMODE                          := ALT_HOLD_SPEED
 889  911  VG_INPUTS_INT_DPKG.FCCSELALT                            := 14000.0
 890  912  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT    := 15566.0
 891  913  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL    := TRUE
 892  914  VG_ONLY_INT_DPKG.DESTGTALT                              := 16000.0
 893  915  VG_ONLY_INT_DPKG.NXTDESTGT                              := 14050.0
 894  916  VG_ONLY_INT_DPKG.VGREFALT                               := 15566.0
 895  917  VG_OUTPUTS_INT_DPKG.OPPROC                              := DESINTLEVEL
 896  918  VG_OUTPUTS_INT_DPKG.VGALTTGT                            := 14500.0
 897  919  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                          := TRUE
 898  920
 899  921  !run_test ()
 900  922
 901  923  -- OUTPUTS:
 902  924  VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 14500.0
 903  925  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15566.0
 904  926  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
 905  927  VG_OUTPUTS_INT_DPKG.VGALTTGTVL = FALSE
 906  928
 907  929
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
908   930 TESTID: 17
909   931
910   932 Test Name:   VGSELALT_017
911   933 Next altitude Target
912   934 SRD Reference:  10.4.2.2
913   935
914   936
915   937 -- INPUTS:
916   938 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := TRUE
917   939 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
918   940 VG_HS_DPKG.DATA.FLTPHASE                              := DESCENT
919   941 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
920   942 VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
921   943 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
922   944 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
923   945 VG_ONLY_INT_DPKG.DESTGTALT                           := 22000.0
924   946 VG_ONLY_INT_DPKG.NXTDESTGT                           := 15500.0
925   947 VG_ONLY_INT_DPKG.VGREFALT                            := 21500.0
926   948 VG_OUTPUTS_INT_DPKG.OPPROC                           := DESPATHOVER
927   949 VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 15555.0
928   950 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
929   951
930   952 !run_test ()
931   953
932   954 -- OUTPUTS:
933   955 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 15555.0
934   956 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15500.0
935   957 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
936   958
937   959
938   960 TESTID: 18
939   961
940   962 Test Name:   VGSELALT_018
941   963 Next altitude Target
942   964 SRD Reference:  10.4.2.2
943   965
944   966
945   967 -- INPUTS:
946   968 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
947   969 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
948   970 VG_HS_DPKG.DATA.FLTPHASE                              := DESCENT
949   971 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
950   972 VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
951   973 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
952   974 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
953   975 VG_ONLY_INT_DPKG.DESTGTALT                           := 14500.0
954   976 VG_ONLY_INT_DPKG.NXTDESTGT                           := 14050.0
955   977 VG_ONLY_INT_DPKG.VGREFALT                            := 22000.0
956   978 VG_OUTPUTS_INT_DPKG.OPPROC                           := LATEDESCENT
957   979 VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 15555.0
958   980 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
959   981
960   982 !run_test ()
961   983
962   984 -- OUTPUTS:
963   985 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 15555.0
964   986 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 14500.0
965   987 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
966   988
967   989
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
  968    990 TESTID: 19
  969    991
  970    992 Test Name:   VGSELALT_019
  971    993 Next altitude Target
  972    994 SRD Reference:  10.4.2.2
  973    995
  974    996
  975    997 -- INPUTS:
  976    998 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
  977    999 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
  978   1000 VG_HS_DPKG.DATA.FLTPHASE                               := DESCENT
  979   1001 VG_INPUTS_INT_DPKG.ACALT.ALT                           := 21000.0
  980   1002 VG_INPUTS_INT_DPKG.FCCSELALT                           := 14000.0
  981   1003 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT   := 21000.0
  982   1004 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL   := FALSE
  983   1005 VG_ONLY_INT_DPKG.DESTGTALT                             := 15000.0
  984   1006 VG_ONLY_INT_DPKG.NXTDESTGT                             := 14050.0
  985   1007 VG_ONLY_INT_DPKG.VGREFALT                              := 21000.0
  986   1008 VG_OUTPUTS_INT_DPKG.OPPROC                             := EARLYDESCENT
  987   1009 VG_OUTPUTS_INT_DPKG.VGALTTGT                           := 15555.0
  988   1010 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                         := TRUE
  989   1011
  990   1012 !run_test ()
  991   1013
  992   1014 -- OUTPUTS:
  993   1015 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 15555.0
  994   1016 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15000.0
  995   1017 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
  996   1018
  997   1019
  998   1020 TESTID: 20
  999   1021
 1000   1022 Test Name:   VGSELALT_020
 1001   1023 Next altitude Target
             »
 1002   1024 SRD Reference:  10.4.2.2
 1003   1025
 1004   1026
 1005   1027 -- INPUTS:
 1006   1028 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
 1007   1029 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
 1008   1030 VG_HS_DPKG.DATA.FLTPHASE                               := DESCENT
 1009   1031 VG_INPUTS_INT_DPKG.ACALT.ALT                           := 21000.0
 1010   1032 VG_INPUTS_INT_DPKG.FCCSELALT                           := 14000.0
 1011   1033 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT   := 18000.0
 1012   1034 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL   := TRUE
 1013   1035 VG_OUTPUTS_INT_DPKG.ALTTAPETGT                         := 15555.0
 1014   1036 VG_ONLY_INT_DPKG.DESTGTALT                             := 17500.0
 1015   1037 VG_ONLY_INT_DPKG.NXTDESTGT                             := 14050.0
 1016   1038 VG_ONLY_INT_DPKG.VGREFALT                              := 20000.0
 1017   1039 VG_OUTPUTS_INT_DPKG.OPPROC                             := HOLDTOMANUAL
 1018   1040 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                         := TRUE
 1019   1041
 1020   1042 !run_test ()
 1021   1043
 1022   1044 -- OUTPUTS:
 1023   1045 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 15555.0
 1024   1046 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 18000.0
 1025   1047 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
 1026   1048
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1027   1049
1028   1050  TESTID: 21
1029   1051
1030   1052  Test Name:   VGSELALT_021
1031   1053  Next altitude Target
1032   1054  SRD Reference:  10.4.2.2
1033   1055
1034   1056
1035   1057  -- INPUTS:
1036   1058  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
1037   1059  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS             := MASTER
1038   1060  VG_HS_DPKG.DATA.FLTPHASE                              := DESCENT
1039   1061  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 19000.0
1040   1062  VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
1041   1063  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 19000.0
1042   1064  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
1043   1065  VG_ONLY_INT_DPKG.DESTGTALT                           := 17000.0
1044   1066  VG_ONLY_INT_DPKG.NXTDESTGT                           := 15500.0
1045   1067  VG_ONLY_INT_DPKG.VGREFALT                            := 16000.0
1046   1068  VG_OUTPUTS_INT_DPKG.OPPROC                           := AIRMASSDSCNT
1047   1069  VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 15555.0
1048   1070  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1049   1071
1050   1072  !run_test ()
1051   1073
1052   1074  -- OUTPUTS:
1053   1075  VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 15555.0
1054   1076  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15500.0
1055   1077  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1056   1078
1057   1079
1058   1080  TESTID: 22
1059   1081
1060   1082  Test Name:   VGSELALT_022
1061   1083  SRD Reference:  10.2.13.3, 10.4.2, 10.4.2.1
1062   1084
1063   1085
1064   1086  -- INPUTS:
1065   1087  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call           := FALSE
1066   1088  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 18000.0
1067   1089  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 18000.0
1068   1090  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
1069   1091  VG_ONLY_INT_DPKG.DESTGTALT                           := 17000.0
1070   1092  VG_ONLY_INT_DPKG.NXTDESTGT                           := 15550.0
1071   1093  VG_ONLY_INT_DPKG.VGREFALT                            := 16000.0
1072   1094  VG_OUTPUTS_INT_DPKG.OPPROC                           := EODRIFTDOWN
1073   1095  VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 14444.0
1074   1096  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1075   1097
1076   1098  !run_test ()
1077   1099
1078   1100  -- OUTPUTS:
1079   1101  VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 14444.0
1080   1102  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15550.0
1081   1103  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1082   1104
1083   1105
1084   1106  TESTID: 23
1085   1107  Test Name:   VGSELALT_023
1086   1108  Next altitude Target
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1087  1109  SRD Reference:  10.4.2.2
1088  1110
1089  1111
1090  1112  -- INPUTS:
1091  1113  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE
1092  1114  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER
1093  1115  VG_HS_DPKG.DATA.FLTPHASE                             := CRUISE
1094  1116  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
1095  1117  VG_INPUTS_INT_DPKG.CRZALT                            := 13000.0
1096  1118  VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
1097  1119  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
1098  1120  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
1099  1121  VG_ONLY_INT_DPKG.NXTDESTGT                           := -1000.0
1100  1122  VG_ONLY_INT_DPKG.STEPCLBAHD                          := FALSE
1101  1123  VG_ONLY_INT_DPKG.VGREFALT                            := 25000.0
1102  1124  VG_OUTPUTS_INT_DPKG.OPPROC                           := CRZLEVEL
1103  1125  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1104  1126
1105  1127  !run_test ()
1106  1128
1107  1129  -- OUTPUTS:
1108  1130  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 13000.0
1109  1131  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1110  1132
1111  1133
1112        TESTID: 23
      1134  TESTID: 24
1113  1135
1114  1136  Test Name:   VGSELALT_023
1115  1137  Next altitude Target
1116  1138  SRD Reference:  10.4.2.2
1117  1139
1118  1140
1119  1141  -- INPUTS:
1120  1142  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE
1121  1143  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER
1122  1144  VG_HS_DPKG.DATA.FLTPHASE                             := CRUISE
1123  1145  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 17000.0
1124  1146  VG_INPUTS_INT_DPKG.CRZALT                            := 13000.0
1125  1147  VG_INPUTS_INT_DPKG.FCCSELALT                         := 12000.0
1126  1148  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 17000.0
1127  1149  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := TRUE
1128  1150  VG_ONLY_INT_DPKG.DESTGTALT                           := 16000.0
1129  1151  VG_ONLY_INT_DPKG.NXTDESTGT                           := -1001.0
1130  1152  VG_ONLY_INT_DPKG.STEPCLBAHD                          := FALSE
1131  1153  VG_ONLY_INT_DPKG.VGREFALT                            := 25000.0
1132  1154  VG_OUTPUTS_INT_DPKG.OPPROC                           := CRZLEVEL
1133  1155  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1134  1156
1135  1157  !run_test ()
1136  1158
1137  1159  -- OUTPUTS:
1138  1160  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 17000.0
1139  1161  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1140  1162
1141  1163
1142        TESTID: 24
      1164  TESTID: 25
1143  1165
1144  1166  Test Name:   VGSELALT_024
```

Beyond Compare 2.1.1

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1145    1167  Next altitude Target
1146    1168  SRD Reference:   10.4.2.2
1147    1169
1148    1170
1149    1171  -- INPUTS:
1150    1172  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
1151    1173  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
1152    1174  VG_HS_DPKG.DATA.FLTPHASE                               := CLIMB
1153    1175  VG_INPUTS_INT_DPKG.ACALT.ALT                          := 20000.0
1154    1176  VG_INPUTS_INT_DPKG.CRZALT                             := 13000.0
1155    1177  VG_INPUTS_INT_DPKG.CRZALTVAL                          := FALSE
1156    1178  VG_INPUTS_INT_DPKG.FCCSELALT                          := 14000.0
1157    1179  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 20000.0
1158    1180  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
1159    1181  VG_ONLY_INT_DPKG.NXTCLBTGT                            := 42000.0
1160    1182  VG_ONLY_INT_DPKG.VGREFALT                             := 21000.0
1161    1183  VG_OUTPUTS_INT_DPKG.OPPROC                            := CLBINTLEVEL
1162    1184  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
1163    1185  VG_INPUTS_INT_DPKG.CRZALTVAL                          := TRUE
1164    1186
1165    1187  !run_test ()
1166    1188
1167    1189  -- OUTPUTS:
1168    1190  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 42000.0
1169    1191  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1170    1192
1171    1193
1172          TESTID: 25
        1194  TESTID: 26
1173    1195
1174    1196  Test Name:   VGSELALT_025
1175    1197  Next altitude Target
1176    1198  SRD Reference:   10.4.2.2
1177    1199
1178    1200
1179    1201  -- INPUTS:
1180    1202  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call            := FALSE
1181    1203  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS              := MASTER
1182    1204  VG_HS_DPKG.DATA.FLTPHASE                               := CRUISE
1183    1205  VG_INPUTS_INT_DPKG.ACALT.ALT                          := 21000.0
1184    1206  VG_INPUTS_INT_DPKG.CRZALT                             := 13000.0
1185    1207  VG_INPUTS_INT_DPKG.CRZALTVAL                          := TRUE
1186    1208  VG_INPUTS_INT_DPKG.FCCSELALT                          := 14000.0
1187    1209  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
1188    1210  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
1189    1211  VG_ONLY_INT_DPKG.DESTGTALT                            := -1000.0
1190    1212  VG_ONLY_INT_DPKG.NXTCLBTGT                            := -1000.0
1191    1213  VG_ONLY_INT_DPKG.NXTDESTGT                            := -1000.0
1192    1214  VG_ONLY_INT_DPKG.STEPCLBAHD                           := FALSE
1193    1215  VG_ONLY_INT_DPKG.VGREFALT                             := 25000.0
1194    1216  VG_OUTPUTS_INT_DPKG.OPPROC                            := HOLDTOMANUAL
1195    1217  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
1196    1218  Vg_Inputs_Int_Dpkg.Minimum_Certified_Altitude        := -1000.0
1197    1219
1198    1220  !run_test ()
1199    1221
1200    1222  -- OUTPUTS:
1201    1223  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = -1000.0
1202    1224  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = FALSE
1203    1225
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1204   1226
1205          TESTID: 26
       1227   TESTID: 27
1206   1228
1207   1229  Test Name:   VGSELALT_026
1208   1230  Next altitude Target
1209   1231  SRD Reference:  10.4.2.2
1210   1232
1211   1233
1212   1234  -- INPUTS:
1213   1235  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE
1214   1236  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER
1215   1237  VG_HS_DPKG.DATA.FLTPHASE                             := CRUISE
1216   1238  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
1217   1239  VG_INPUTS_INT_DPKG.CRZALT                            := 14500.0
1218   1240  VG_INPUTS_INT_DPKG.CRZALTVAL                         := TRUE
1219   1241  VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
1220   1242  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
1221   1243  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := FALSE
1222   1244  VG_ONLY_INT_DPKG.DESTGTALT                           := -1000.0
1223   1245  VG_ONLY_INT_DPKG.NXTCLBTGT                           := -1000.0
1224   1246  VG_ONLY_INT_DPKG.NXTDESTGT                           := -1000.0
1225   1247  VG_ONLY_INT_DPKG.STEPCLBAHD                          := FALSE
1226   1248  VG_ONLY_INT_DPKG.VGREFALT                            := 25000.0
1227   1249  VG_OUTPUTS_INT_DPKG.OPPROC                           := CRZLEVEL
1228   1250  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1229   1251
1230   1252  !run_test ()
1231   1253
1232   1254  -- OUTPUTS:
1233   1255  VG_OUTPUTS_INT_DPKG.NXTALTTGT  = -1000.0
1234   1256  VG_OUTPUTS_INT_DPKG.NXTALTTGTV = FALSE
1235   1257
1236   1258
1237          TESTID: 27
       1259   TESTID: 28
1238   1260
1239   1261  Test Name:   VGSELALT_027
1240   1262  Next altitude Target
1241   1263  SRD Reference:  10.4.2.2
1242   1264
1243   1265
1244   1266  -- INPUTS:
1245   1267  Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := TRUE
1246   1268  FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER
1247   1269  VG_HS_DPKG.DATA.FLTPHASE                             := DESCENT
1248   1270  VG_INPUTS_INT_DPKG.ACALT.ALT                         := 16000.0
1249   1271  VG_INPUTS_INT_DPKG.FCCENGDMODE                       := ALT_HOLD_MAX_THRUST
1250   1272  VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
1251   1273  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 15566.0
1252   1274  VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := TRUE
1253   1275  VG_ONLY_INT_DPKG.DESTGTALT                           := 16000.0
1254   1276  VG_ONLY_INT_DPKG.NXTDESTGT                           := 14050.0
1255   1277  VG_ONLY_INT_DPKG.VGREFALT                            := 15566.0
1256   1278  VG_OUTPUTS_INT_DPKG.OPPROC                           := DESINTLEVEL
1257   1279  VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 14500.0
1258   1280  VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := TRUE
1259   1281
1260   1282  !run_test ()
1261   1283
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1262  1284 -- OUTPUTS:
1263  1285 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 14500.0
1264  1286 VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 15566.0
1265  1287 VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE
1266  1288 VG_OUTPUTS_INT_DPKG.VGALTTGTVL = FALSE
1267  1289
1268  1290
1269       TESTID: 28
      1291 TESTID: 29
1270  1292
1271  1293 Test Name:   VGSELALT_028
1272  1294 The Vertical Guidance Altitude Target (AA, CIL, CL, DP, DIL, ED, LD, DPO, HM, AD, EO
           » T/O, EO T/O Lvl Acc, EODD)
1273  1295 is the Vertical Guidance Reference Altitude (FCC package not called)
1274  1296 SRD REFERENCE 10.2.1.3, 10.2.2.3, 10.2.3.3, 10.2.4.3, 10.2.5.3, 10.2.6.3,
1275  1297 SRD REFERENCE 10.2.7.3, 10.2.8.3, 10.2.9.3, 10.2.10.3, 10.2.11.3, 10.2.12.3
1276  1298 (VGUIDE_SRD_8005, MD11_VG_TEST_1104) & (VGUIDE_SRD_5206, MD11_VG_TEST_1202) & (VGUIDE
           » _SRD_5304, MD11_VG_TEST_1303) &
1277  1299 (VGUIDE_SRD_5618, MD11_VG_TEST_1403) & (VGUIDE_SRD_5655, MD11_VG_TEST_1503) & (VGUIDE
           » _SRD_8286, MD11_VG_TEST_3822) &
1278  1300 (VGUIDE_SRD_8235, MD11_VG_TEST_3823) & (VGUIDE_SRD_8201, MD11_VG_TEST_3824) & (VGUIDE
           » _SRD_8152, MD11_VG_TEST_3825) &
1279  1301 (VGUIDE_SRD_8118, MD11_VG_TEST_3826) & (VGUIDE_SRD_2840, MD11_VG_TEST_3827) & (VGUIDE
           » _SRD_5555, MD11_VG_TEST_3828) &
1280  1302 (VGUIDE_SRD_2894, MD11_VG_TEST_3829)
1281  1303
1282  1304
1283  1305 -- INPUTS:
1284  1306 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call   := FALSE
1285  1307 VG_ONLY_INT_DPKG.VGREFALT                     := 15566.0
1286  1308 VG_OUTPUTS_INT_DPKG.VGALTTGT                  := 15000.0
1287  1309
1288  1310 !run_test ()
1289  1311
1290  1312 -- OUTPUTS:
1291  1313 VG_ONLY_INT_DPKG.VGREFALT                     = 15566.0
1292  1314 VG_OUTPUTS_INT_DPKG.VGALTTGT                  = 15000.0
1293  1315
1294  1316
1295       TESTID: 29
      1317 TESTID: 30
1296  1318
1297  1319 Test Name:   VGSELALT_029
1298  1320 The Vertical Guidance Altitude Target (AA, CIL, CL, EO T/O, EO T/O, Lvl Acc) is the V
           » ertical Guidance Reference Altitude
1299  1321 SRD REFERENCE 10.2.1.3, 10.2.2.3, 10.2.3.3, 10.2.11.3, 10.2.12.3 (FCC package called)
1300  1322 (VGUIDE_SRD_8005, MD11_VG_TEST_1104) & (VGUIDE_SRD_5206, MD11_VG_TEST_1202) & (VGUIDE
           » _SRD_5304, MD11_VG_TEST_1303) &
1301  1323 (VGUIDE_SRD_5618, MD11_VG_TEST_1403) & (VGUIDE_SRD_5655, MD11_VG_TEST_1503) & (VGUIDE
           » _SRD_8286, MD11_VG_TEST_3822) &
1302  1324 (VGUIDE_SRD_8235, MD11_VG_TEST_3823) & (VGUIDE_SRD_8201, MD11_VG_TEST_3824) & (VGUIDE
           » _SRD_8152, MD11_VG_TEST_3825) &
1303  1325 (VGUIDE_SRD_8118, MD11_VG_TEST_3826) & (VGUIDE_SRD_2840, MD11_VG_TEST_3827) & (VGUIDE
           » _SRD_5555, MD11_VG_TEST_3828) &
1304  1326 (VGUIDE_SRD_2894, MD11_VG_TEST_3829)
1305  1327
1306  1328
1307  1329 -- INPUTS:
1308  1330 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call   := TRUE
1309  1331 VG_ONLY_INT_DPKG.VGREFALT                     := 15566.0
```

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

1310	1332	`VG_OUTPUTS_INT_DPKG.VGALTTGT                          := 15000.0`
1311	1333	
1312	1334	`!run_test ()`
1313	1335	
1314	1336	`-- OUTPUTS:`
1315	1337	`VG_ONLY_INT_DPKG.VGREFALT                          = 15566.0`
1316	1338	`VG_OUTPUTS_INT_DPKG.VGALTTGT                       = 15566.0`
1317	1339	
1318		~~TESTID: 30~~
	1340	TESTID: 31
1319	1341	
1320	1342	`Test Name:   VGSELALT_030`
1321	1343	`Next altitude Target`
1322	1344	`SRD Reference:   10.4.2.2`
1323	1345	
1324	1346	
1325	1347	`-- INPUTS:`
1326	1348	`Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := TRUE`
1327	1349	`FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER`
1328	1350	`VG_HS_DPKG.DATA.FLTPHASE                             := CRUISE`
1329	1351	`VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0`
1330	1352	`VG_INPUTS_INT_DPKG.CRZALT                            := 26000.0`
1331	1353	`VG_INPUTS_INT_DPKG.CRZALTVAL                         := TRUE`
1332	1354	`VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0`
1333	1355	`VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0`
1334	1356	`VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := TRUE`
1335	1357	`VG_ONLY_INT_DPKG.NXTDESTGT                           := -1000.0`
1336	1358	`VG_ONLY_INT_DPKG.STEPCLBAHD                          := TRUE`
1337	1359	`VG_ONLY_INT_DPKG.VGREFALT                            := 25000.0`
1338	1360	`VG_OUTPUTS_INT_DPKG.OPPROC                           := AIRMASSASCNT`
1339	1361	`VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := FALSE`
1340	1362	
1341	1363	`!run_test ()`
1342	1364	
1343	1365	`-- OUTPUTS:`
1344	1366	`VG_OUTPUTS_INT_DPKG.NXTALTTGT  = 26000.0`
1345	1367	`VG_OUTPUTS_INT_DPKG.NXTALTTGTV = TRUE`
1346	1368	`VG_OUTPUTS_INT_DPKG.VGALTTGTVL = TRUE`
1347	1369	
1348	1370	
	1371	TESTID: 32
	1372	
	1373	During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
	1374	the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
	1375	Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
		» is Descent Path.
	1376	
	1377	this case to verify when the Vertical Guidance Operational Procedure is Descent Path,
	1378	the Vertical Guidance Reference Altitude greater than the Descent Target Altitude ,
	1379	then he Altitude Target Is equal to the Vertical Guidance Reference Altitude
		»
	1380	SRD Reference: VGUIDE_SRD_7006
	1381	
	1382	
	1383	`-- INPUTS:`
	1384	`Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := FALSE`
	1385	`FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER`
	1386	`VG_HS_DPKG.DATA.FLTPHASE                             := DESCENT`
	1387	`VG_INPUTS_INT_DPKG.ACALT.ALT                         := 20000.0`
	1388	`VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0`

File: CTP_MD11_VG_SEL_ALT_TGT.TDF (continued)

```
1389 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT  := 21000.0
1390 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL  := FALSE
1391 VG_ONLY_INT_DPKG.DESTGTALT                            := 20000.0
1392 VG_ONLY_INT_DPKG.NXTDESTGT                            := 25000.0
1393 VG_ONLY_INT_DPKG.VGREFALT                             := 25000.0
1394 VG_OUTPUTS_INT_DPKG.OPPROC                            := DESCENTPATH
1395 VG_OUTPUTS_INT_DPKG.VGALTTGT                          := 20500.0
1396 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                        := TRUE
1397
1398 !run_test ()
1399
1400 -- OUTPUTS:
1401 VG_OUTPUTS_INT_DPKG.ALTTAPETGT = 20500.0
1402
1403
1404 TESTID: 33
1405
1406 During Descent and Approach, maintaining Des/Appr Path, the Altitude Target shall be
1407 the maximum of the Vertical Guidance Reference Altitude (10.1.6) and the Descent
1408 Target Altitude (10.1.6.1.4), when the Vertical Guidance Operational Procedure (10.2)
     »  is Descent Path.
1409
1410 this case to verify when the Vertical Guidance Operational Procedure is not Descent P
     » ath,
1411 SRD Reference:   VGUIDE_SRD_    6
1412
1413
1414 -- INPUTS:
1415 Test_VG_SELECT_ALT_TARGET.test_for_FCC_call          := TRUE
1416 FMCS_PARTITION_DATA_PKG.OPS_MASTER_STATUS            := MASTER
1417 VG_HS_DPKG.DATA.FLTPHASE                             := CRUISE
1418 VG_INPUTS_INT_DPKG.ACALT.ALT                         := 21000.0
1419 VG_INPUTS_INT_DPKG.CRZALT                            := 26000.0
1420 VG_INPUTS_INT_DPKG.CRZALTVAL                         := TRUE
1421 VG_INPUTS_INT_DPKG.FCCSELALT                         := 14000.0
1422 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).ALT := 21000.0
1423 VG_INPUTS_INT_DPKG.MDA(MDXX_LGB_TPKG.ACTPRIMARY).VAL := TRUE
1424 VG_ONLY_INT_DPKG.NXTDESTGT                           := -1000.0
1425 VG_ONLY_INT_DPKG.STEPCLBAHD                          := TRUE
1426 VG_ONLY_INT_DPKG.VGREFALT                            := 25000.0
1427 VG_OUTPUTS_INT_DPKG.OPPROC                           := Crzlevel
1428 VG_OUTPUTS_INT_DPKG.VGALTTGTVL                       := FALSE
1429 Vg_Inputs_Int_Dpkg.Fccengdmode                          := Alt_Capt_Speed
1430 VG_OUTPUTS_INT_DPKG.VGALTTGT                         := 24900.0
1431 VG_ONLY_INT_DPKG.DESTGTALT                           := 25000.0
1432
1433 !run_test ()
1434
1435 -- OUTPUTS:
1436 VG_OUTPUTS_INT_DPKG.ALTTAPETGT  = 24900.0
```

Mode: All Lines
Left base folder: D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT\old
Right base folder: D:\MD11\17011\CTP_MD11_VG_SEL_ALT_TGT

File: CTP_MD11_VG_SEL_ALT_TGT.TRT

1	1	!**
2	2	!Trace Filename: CTP_MD11_VG_SEL_ALT_TGT.TRT
3	3	! UPDATED SCR UPDATED
4	4	! DATE NUMBER BY
5	5	! .==========.=========.===
6	6	! 01/11/2001 N/A Auto-Created from VMS trace data
	7	! 05/30/2013 17011.01 Dun Qing Integration of the SRD Anchor
7	8	!
8	9	!**
9	10	!Aircraft Document Anchor Traces to Anchor
10	11	!------------ --------- ----------------------- -----------------------
11	12	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7000
12		MD11 SRD MD11_VG_TEST_2057 VGUIDE_SRD_7002
13		MD11 SRD MD11_VG_TEST_2018 VGUIDE_SRD_7003
14		MD11 SRD MD11_VG_TEST_3830 VGUIDE_SRD_7004
15		MD11 SRD MD11_VG_TEST_3831 VGUIDE_SRD_7006
16		MD11 SRD MD11_VG_TEST_2019 VGUIDE_SRD_7007
17		MD11 SRD MD11_VG_TEST_3832 VGUIDE_SRD_7008
18		MD11 SRD MD11_VG_TEST_3833 VGUIDE_SRD_7009
19		MD11 SRD MD11_VG_TEST_2020 VGUIDE_SRD_7010
20		MD11 SRD MD11_VG_TEST_3834 VGUIDE_SRD_7011
21		MD11 SRD MD11_VG_TEST_3835 VGUIDE_SRD_7012
22		MD11 SRD MD11_VG_TEST_3836 VGUIDE_SRD_7013
23		MD11 SRD MD11_VG_TEST_3837 VGUIDE_SRD_7015
24		MD11 SRD MD11_VG_TEST_3838 VGUIDE_SRD_7017
25		MD11 SRD MD11_VG_TEST_1178 VGUIDE_SRD_2902
26		MD11 SRD MD11_VG_TEST_1104 VGUIDE_SRD_8005
27		MD11 SRD MD11_VG_TEST_1278 VGUIDE_SRD_5205
28		MD11 SRD MD11_VG_TEST_1202 VGUIDE_SRD_5206
29		MD11 SRD MD11_VG_TEST_1357 VGUIDE_SRD_3041
30		MD11 SRD MD11_VG_TEST_1303 VGUIDE_SRD_5304
31		MD11 SRD MD11_VG_TEST_1417 VGUIDE_SRD_3026
32		MD11 SRD MD11_VG_TEST_1403 VGUIDE_SRD_5618
33		MD11 SRD MD11_VG_TEST_1513 VGUIDE_SRD_2837
34		MD11 SRD MD11_VG_TEST_1503 VGUIDE_SRD_5655
35		MD11 SRD MD11_VG_TEST_3282 VGUIDE_SRD_3072
36		MD11 SRD MD11_VG_TEST_3283 VGUIDE_SRD_3103
37		MD11 SRD MD11_VG_TEST_3284 VGUIDE_SRD_3221
38		MD11 SRD MD11_VG_TEST_3285 VGUIDE_SRD_3150
39		MD11 SRD MD11_VG_TEST_3286 VGUIDE_SRD_3190
40		MD11 SRD MD11_VG_TEST_3287 VGUIDE_SRD_2810
41		MD11 SRD MD11_VG_TEST_3288 VGUIDE_SRD_2848
42		MD11 SRD MD11_VG_TEST_3289 VGUIDE_SRD_2891
43		MD11 SRD MD11_VG_TEST_3899 VGUIDE_SRD_8286
44		MD11 SRD MD11_VG_TEST_3823 VGUIDE_SRD_8235
45		MD11 SRD MD11_VG_TEST_3824 VGUIDE_SRD_8201
46		MD11 SRD MD11_VG_TEST_3825 VGUIDE_SRD_8152
47		MD11 SRD MD11_VG_TEST_3826 VGUIDE_SRD_8118
48		MD11 SRD MD11_VG_TEST_3827 VGUIDE_SRD_2840
49		MD11 SRD MD11_VG_TEST_3828 VGUIDE_SRD_5555
50		MD11 SRD MD11_VG_TEST_3829 VGUIDE_SRD_2894
	13	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7002
	14	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7003
	15	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7004
	16	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7006
	17	MD11 SRD MD11_VG_TEST_2059 VGUIDE_SRD_7007

File: CTP_MD11_VG_SEL_ALT_TGT.TRT (continued)

18	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7008
19	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7009
20	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7010
21	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7011
22	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7012
23	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7013
24	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7015
25	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_7017
26	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2902
27	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8005
28	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5205
29	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5206
30	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3041
31	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5304
32	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3026
33	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5618
34	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2837
35	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5655
36	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3072
37	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3103
38	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3221
39	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3150
40	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_3190
41	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2810
42	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2848
43	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2891
44	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8286
45	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8235
46	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8201
47	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8152
48	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_8118
49	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2840
50	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_5555
51	MD11	SRD	MD11_VG_TEST_2059	VGUIDE_SRD_2894