NO. 1 HOTEL BILLING INFORMATION SYSTEM (HOBIS)

MAINTENANCE TEST PROCEDURES

1. GENERAL

1.01 This section provides the test procedures for performing maintenance on HOBIS.

1.02 This issue affects the Equipment Test List.

1.03 The following tests are provided:

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A. Loop Test: This test checks the operator positions (OPR), record (RCD), intersystem links (ISL), line printer (LP), and dial-up (DIAL) lines of HOBIS. 2

B. Call Test: This test checks the DN11 automatic calling unit (ACU) interface, 801 ACU, 407A interface circuit, 407A data set, and wiring between the 801 ACU and the 407A data set. . . 3

C. DAS Test: This test checks the mini-Data Acquisition System (mini-DAS) for address, data, and wiring problems in the scanner, signal distributor, and the unified bus converter circuits. 5

D. Remove Test: This test removes an ACU from normal HOBIS system use for testing or repair. 8

E. Restore Test: This test places an ISL, RCD, or ACU and TOUCH-TONE* receiver back into service after they have been repaired. . . 8

*Registered trademark of AT&T.

1.04 If an error message is received or there is a trouble condition, refer to Section 201-903-303 trouble sectionalizing.

1.05 All input messages are completed by depressing the RETURN key on the DEC†writer.

†Registered trademark of Digital Equipment Corporation.

1.06 ***Lettered Steps:*** A letter a, b, c, etc, added to a step number in Parts 3 and 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the INPUT MESSAGE/OPERATOR ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

2. APPARATUS

Test A

2.01 Loop connector, ED-5P025-30 G3.

2.02 Spectron Cable DPTC-2410.

Test C

2.03 Dummy plug, 258 (preferred) or 310 without wiring.

3. PREPARATION

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
All Tests		
1a	At DECwriter— If **LOGIN:** or **%** is not indicated— Depress RETURN key.	**LOGIN:** If **%** is printed, go to Step 3.
2	Type: **maint** *Note:* If a list of available maintenance commands is needed, type: **help**. A list of commands will be printed plus the prompt **%**.	**No. 1 HOBIS---Generic 1, Issue 1** **(current date, time, time zone, and year)** **(status of processor)** **%** *Note:* If HOBIS office uses password, **PASSWORD:** is printed instead of **%**. Then type the 6-digit password and depress RETURN key. The password is not printed, only **%**.

4. METHOD

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
A. Loop Test		
3	Mate the loop connector with the male EIA connector of the Spectron cable.	
4	Insert the special female end of the Spectron cable into the EQUIP slot on the front of the EIA switch associated with the OPR, RCD, or LP under test. If ISL or DIAL is tested, insert cable into connector 15 (ISL0), 14 (ISL1), or 13 (DIAL) on rear of DH11 (MUX 3) connector panel.	
5	At DECwriter— Type: **loop**	*****WARNING*** LINES TESTED ARE REMOVED FROM HOBIS USE** **INSTRUCTIONS?**
6b	If instructions are needed— Type: **y**	Loop test instructions are printed. **EQUIPMENT DESIGNATION?**
7c	If instructions are not needed— Type: **n** *Note:* The OPR, LP, and DIAL lines are always returned to normal system use. The RESTORE test is used to return RCD and ISL lines to normal system use.	**EQUIPMENT DESIGNATION?**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
8d	If an OPR is being tested— Type: **opr**	**ENTER LINE NUMBER?**
9d	Type: OPR line number (between 0-19)	**TEST OK** **RE-TEST:**
10e	If an RCD is being tested— Type: **rcd**	**ENTER LINE NUMBER?**
11e	Type: RCD line number (between 0-63)	**TEST OK** **RE-TEST:**
12f	If an ISL is being tested— Type: **isl**	**ENTER LINE NUMBER?**
13f	Type: **0** or **1**	**TEST OK** **RE-TEST:**
14g	If an LP or DIAL is to be tested— Type: **lp** or **dial**	**TEST OK** **RE-TEST:**
15	Type: **n** ***Note:*** If a retest is needed, type **y**.	**%**
16	Remove Spectron cable.	
17	Disconnect the loop connector from Spectron cable.	

B. Call Test

Note: Remove the ACU/TT device from HOBIS service before performing this test (Test D).

3	Type: **call**	**CALL TEST INSTRUCTIONS?**
4b	If instructions are needed— Type: **y**	Call instructions are printed. **ACU/TT SUFFIX NUMBER:**
5c	If instructions are not needed— Type: **n**	**ACU/TT SUFFIX NUMBER:**
6	Type: ACU/TT suffix number (between 0-3) ***Note:*** If a trouble condition occurs where the test will not progress, depress the DELETE key to exit the test and refer to Section 201-903-303 trouble sectionalizing.	**FIRST TELEPHONE NUMBER TO BE CALLED:**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
One Call Test		
7	Type telephone number of a nearby telephone.	**SECOND TELEPHONE NUMBER TO BE CALLED:**
8	Depress RETURN key.	The machine dials the telephone number. After all the digits are dialed, the telephone rings.
9	Answer phone.	A tone is heard.
10	Before 15 seconds have elapsed, key in a maximum of 12 digits or # or * on the TOUCH-TONE pad.	At DECwriter— **TOUCH-TONE DIGITS RECEIVED (MAX 12):** Digits are printed. **TRY SAME CALL AGAIN?**
11	Type: **n** ***Note:*** If a retest is needed, type **y**.	**%**
Two Call Test		
12	Type override make busy (OMB) code plus 4-digit nonhunt number of the HOBIS operator.	**SECOND TELEPHONE NUMBER TO BE CALLED:**
13	Type telephone number of a nearby telephone.	The machine dials the first telephone number. After all digits are dialed, the first telephone rings.
14	Operator answers the phone.	A tone is heard.
15	Before 15 seconds have elapsed, HOBIS operator keys in a maximum of 12 digits or # or * on the TOUCH-TONE pad.	At DECwriter— **TOUCH-TONE DIGITS RECEIVED (MAX 12):** Digits are printed. The second telephone rings.
16	HOBIS maintenance person answers phone and indicates to the operator that this is a test call.	
17	Hang up phone.	At DECwriter— **TRY SAME CALL AGAIN?**
18	Type: **n**	**%**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
	Note: If a retest is needed, type **y**.	
C. DAS Test		
3	Type: **das**	**DAS TEST INSTRUCTIONS?**
4b	If instructions are needed— Type: **y**	DAS instructions are printed. **FUNCTIONAL DAS TEST DESIRED:**
5c	If instructions are not needed— Type: **n**	**FUNCTIONAL DAS TEST DESIRED:**
Manual Test		
	Note: The only test that can be performed on the ACTIVE or STANDBY level mini-DAS is the manual read test.	
6	Type: **m**	**MANUAL DAS TEST** **MANUAL TEST INSTRUCTIONS?**
7b	If instructions are needed— Type: **y**	Manual test instructions are printed. **TYPE OF MANUAL TEST DESIRED:**
8c	If instructions are not needed— Type: **n**	**TYPE OF MANUAL TEST DESIRED:**
9d	If scan points are to be read— Type: **r**	(typical response) **READ ALL SCAN POINTS** **SCAN WORD VALUE** **X000 001277** **X002 177776** **X004 000017** **X006 000000** . . . **X036 000000** **TYPE OF MANUAL TEST DESIRED:**
10e	If a distribute point is to be set— Type: **s**	**SET DISTRIBUTE POINT** **ADDRESS 177640_:**
11e	Type: **40, 42, 44,** or **46**	**BIT POSITION:**
12e	Type: the bit position (between 0-15)	**DISTRIBUTE POINT SET!!**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
		TYPE OF MANUAL TEST DESIRED:
13f	If distribute point(s) is to be cleared— Type: **c**	**CLEAR DISTRIBUTE POINT ADDRESS 177640_:**
14f	Type: **40, 42, 44, 46,** or **all**	**BIT POSITION:** or **CLEAR ALL DISTRIBUTE POINTS!!**
15f	Type: the bit position (between 0-15) or **all**	**DISTRIBUTE POINT CLEARED!!** or **CLEAR ALL DISTRIBUTE POINTS!! TYPE OF MANUAL TEST DESIRED:**
16	Type: **ex**	

Automatic Test

	Note: The system state can be ACTIVE or STANDBY. It must be FAILED.	
17	At power control unit— Insert dummy plugs into the TESTA, TESTB, and DTST jacks.	
18	At connector unit— Disconnect the PMB connector from the PMB_ connector associated with system under test (eg, if system A is under test, the PMBA connector would be unmated).	
19g	At DECwriter— If all automatic tests are to be performed— Type: **a**	General and A1 instructions are printed. **BEGIN TEST?**
20g	Type: **y**	**TEST OK—ALL SCAN POINTS ARE CLEAR** A2 instructions are printed. **BEGIN TEST?**
21g	At power control unit— Depress -48V SCAN switch.	-48V SCAN indicator lighted.
22g	At DECwriter— Type: **y**	**TEST OK—ALL SCAN POINTS ARE SET** A3 instructions are printed. **BEGIN TEST?**
23g	At power control unit— Depress -48V SCAN switch.	-48V SCAN indicator extinguished.
24g	At DECwriter— Type: **y**	**TEST OK—CORRECT DATA RECEIVED**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
		A4 instructions are printed. **BEGIN TEST?**
25g	Type: **y**	**TEST OK—CORRECT DATA RECEIVED** **%**
26h	At DECwriter— If a check to see if all scan points can be cleared is needed— Type: **a1**	General and A1 instructions are printed. **BEGIN TEST?**
27h	Type: **y**	**TEST OK-ALL SCAN POINTS ARE CLEAR** **%**
28i	At DECwriter— If a check to see if all scan points can be set is needed— Type: **a2**	General and A2 instructions are printed. **BEGIN TEST?**
29i	At power control unit— Depress -48V SCAN switch.	-48V SCAN indicator lighted.
30i	At DECwriter— Type: **y**	**TEST OK-ALL SCAN POINTS ARE SET** **%**
31j	At power control unit Depress -48V SCAN switch.	-48V SCAN indicator extinguished.
32j	At DECwriter— If a distribute point is to be set with all other points being cleared— Type: **a3**	General and A3 instructions are printed. **BEGIN TEST?**
33j	Type: **y**	**TEST OK-CORRECT DATA RECEIVED** **%**
34k	At DECwriter— If a distribute point is to be cleared with all other points being set— Type: **a4**	General and A4 instructions are printed. **BEGIN TEST?**
35k	Type: **y**	**TEST OK-CORRECT DATA RECEIVED** **%**
36	At connector unit— Connect the PMB connector to the PMB_ connector associated with the system under test.	
37	Remove dummy plugs from TESTA, TESTB, and DTST jacks.	

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
D. Remove Test		
	Note: Only done on ACTIVE machine.	
3	Type: **remove**	**INSTRUCTIONS?**
4b	If instructions are needed— Type: **y**	Remove instructions are printed. **EQUIPMENT DESIGNATION?**
5c	If instructions are not needed— Type: **n**	**EQUIPMENT DESIGNATION?**
6	Type: **acu**	**ENTER LINE NUMBER?**
7	Type: ACU line number (between 0-3)	**REMOVE COMPLETE** (Typical message) **(current date and time)** **MIN:DIALER 3:*** Timeout-Need Maintenance:** At alarm display panel— Minor alarm sounds. LOCAL ALARM STATUS-MINOR indicator lighted.
8	At DECwriter— Type: **req ar**	At alarm display panel— Minor alarm silenced. LOCAL ALARM STATUS-MINOR indicator extinguished.
E. Restore Test		
	Note: Only done on ACTIVE machine.	
3	Type: **restore**	**INSTRUCTIONS?**
4b	If instructions are needed— Type: **y**	Restore instructions are printed. **EQUIPMENT DESIGNATION?**
5c	If instructions are not needed— Type: **n**	**EQUIPMENT DESIGNATION?**
6d	If ISL link is to be put into service— Type: **isl**	**ENTER LINE NUMBER?**
7d	Type: ISL link number (**0**, **1**, or **b**)	**(current date and time) INF:RESTORE:***:RESTORE COMPLETE:**
8e	If an RCD line is to be put into service— Type: **rcd**	**ENTER LINE NUMBER?**

STEP	INPUT MESSAGE/OPERATOR ACTION	OUTPUT MESSAGE/SYSTEM RESPONSE
9e	Type: RCD line number (between 0-63)	**(current date and time) INF:RESTORE:***:RESTORE COMPLETE:**
10f	If an ACU line is to be put into service— Type: **acu**	**ENTER LINE NUMBER?**
11f	Type: ACU line number (between 0-3)	**(current date and time) INF:RESTORE:***:RESTORE COMPLETE:**