Procedure. Ref.:	**SVT_OPM_5030 (1,1)**	LOAD+ DUMP ICU CODE

Procedure Title:	Load and Dump of ICU Code
Last Date Modified:	15/07/99 19:44:43
Author:	Kate Adamson

Purpose of Procedure:

This procedure executes the Load and Dump of the ICU Operational Code. The ICU Operational code is nominally maintained by KAL however for the initial switch ON (or if the KAL power has been cycled) this code must be uplinked. The ICU Bootstrap and ICU Basic software resides in ROM and is copied into RAM for execution. The Operational software is uplinked from ground.

The following list refers to the OBSM procedures used to execute this task.
FCP_OPM_9910 - Load OM ICU Application Code
FCP_OPM_9915 - Checksum and Dump OM ICU Application Code.

This procedure is foreseen to be used during the OM SVT.

Initial State: OM ON in INITIAL Mode

Final State: OM ON in INITIAL Mode with ICU Code loaded.

Step	Time	Activity/Remarks	Command	TM Verification
1		Confirm OM in INITIAL Mode		***AND: H100*** H5395 "OM STATE" = INITIAL
2		LOAD ICU DATA SPACE MEMORY OBSMS System required to support loading of OM ICU Image.		
2.1		Load ICU Data Space MID = 0, Addresses 0 - FFFF Multiple TCs.	**H4000** MEML ICU DS H0500 "START ADDRESS" = 0.000	
2.2		Dump ICU Data Space. MID = 0, Addresses 0 - FFFF Length in number of Words used = 5181 Compare Memory Load and dump packets. Packet 94200 (2000 OM6)	**H4100** MEMD ICU DS H0500 "START ADDRESS" = 0.000 **H0510 "LENGTH" = 5181	
3		LOAD ICU INSTRUCTION SPACE MEMORY OBSMS System required to support loading of OM ICU Image.		
3.1		Load ICU Instruction Space MID = 1, Addresses 0 - FFFF Multiple TCs.	**H4001** MEML ICU IS H0500 "START ADDRESS" = 0.000	
3.2		Dump ICU Instruction Space. MID = 1, Addresses 0 - FFFF Length in number of Words used = 46870 Compare Memory Load and dump packets. Packet 94201 (2001 OM6)	**H4101** MEMD ICU IS H0500 "START ADDRESS" = 0.000 **H0510 "LENGTH" = 46870	
4		Check HK Packet counter has increased.		***AND:*** ***AND: H100*** H5385 "TC PACKET COUNT" = + H5390 "BAD TC PKT CNT" = 0
5		END OF PROCEDURE		