



**LH2 RECIRC LOSS** SAE12 LH2 RECIRC MENU, EMERG TERM RECIRC, EXECUTE  
 VERIFY RECIRC PUMP RPMs DECREASING  
 NO CURRENT SPIKES > 20 AMPS Fds GASC0160A - GASC0168A - EMON (3)  
 SET GASK0154E OFF, SET GASK0255E ON - MG1 --> MG2  
 OR  
 SET GASK0255E OFF, SET GASK0154E ON - MG2 --> MG1  
 SAE12 LH2 RECIRC MENU, RE-ESTAB RECIRC, EXECUTE  
 VERIFY RECIRC 2 P 4 PSI MIN PUMP SPEEDS 10,800-11,800 RPM

LCCs reported > 5min, IPR opened: Facility / Orbiter Chill: LCC: Term Recirc

GSE LCC's, LCC Vote, OMRSD PV11 - OP MPS-34 MPS-34 MPS-34

Prechilldown: LCC: Slow Fill To 5%: Read FCV Sim CMD

MPS&SSME He Init MPS-38Thru41 MPS 732-804 PSIA OMRSD PD2 - OP & Latched 10f2 MPS-14 PD2 & LTCH RPC's CorrectMPS-17 PD2 CL&UnltchOFF 1o2/2o2MPS-16 PD3 - OP Till T-31s 10f2MPS-32 PV4, PV5 & PV6 - OP PV8 - CL 2of3 MPS-19 PV11 - CL PV12 - OP PV13 - CL PV14, PV15 & PV16 - CL PV17 & PV18 - CL 2of3 MPS-20 PV22 - CL LV42/LV43/LV74/LV75-OFF MPS-42 LV56/LV57/LV58 - OFF MPS-44 ET OI Powered 1of2 MPS-23

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Terminal Count:  
 -5<Aft He Bot.Tmp<65 2of3 T-6M To T-5M MPS-02  
 45<Mid HeBot.Tmp<135 2of3 T-6M To T-5M MPS-02  
 MPS Reg Out 716-796 PSIA T-5M To T-10S MPS-46  
 SSME Reg Out730-788 PSIA T-3M To T-10S MPS-03  
 4100-HeBot.Press-4500 T-2M55S To T-13S MPS-01  
 LV56, LV57 & LV58 - CL When  
 LH2Tank Press>33.2 PSIA<T-1M17S<T-31s MPS-45  
 PV13 - CL T-1M57S To T-31s MPS-10  
 PV11 - CL T-48S MPS-05  
 PV22 - CL OrGLHT4119A>-409.5Degf T-21s MPS-12  
 Term He Fill - T-12.5S  
 PV4, PV5 & PV6 - OP T-9.5S  
 Recirc Off - T-9.5S  
 PV14, PV15 & PV16 - CL T-9.4S

Fire In Aft OR  
 H2 Conc. 45,000 PPM and Increasing OR  
 H2 Conc.> 10,000 PPM AND O2 Conc.> 40,000 PPM

LCC: Leak > 10,000 PPM H2 He Conc. 10,000 PPM  
 Initial Isolation: T-2H To T-9M  
 Revert  
 Term Recirc  
 PV14, PV15 & PV16 - CL H2 Conc. 600 PPM  
 PV4, PV5 & PV6 - CL T-6H To Repl 150 PPM  
 PV22 - CL Repl To T-1M57S 300 PPM  
 Wait  
 SSME Isolation: T-1M57S To 31s  
 PV12 - CL  
 PD3 - CL  
 PV11 - OP  
 PV13 - OP  
 Wait  
 PV11 Ind. Fail - LCC MPS-05  
 VFY X1385E ON, X1386E OFF  
 SET N41X1389X1 ON, Cursor - PV11-Open  
 VFY X1389X OFF, X1385E OFF, X1386E ON  
 Cursor - PV11-Close  
 VFY X1389X ON, X1385E ON, X1386E OFF  
 NTD - "MPS is good, OK to go"

Stopflow:  
 PV12 - As Is  
 PV11 - As Is  
 PV13 - As Is

Revert:  
 PV22 - CL Leave PV22 Open Unless Required  
 For Troubleshooting (Storage Tank  
 Venting Or Fill Line Venting)

PV12 - CL  
 PV13 - CL  
 PV11 - OP  
 PV22 - OP Unless Unable To

T-3H & Counting:  
 He Bottle Fill To Flt Press MPS-01  
 MPS Reg Out 732-796 PSIA  
 ET Liquid Level C/O - REPL  
 LH2 ECO Wet LiqLvlC/O To T-31s MPS-22

PV22 - OP  
 PD2 - CL  
 PV12 - OP  
 PV22 - CL