

LUMINARY Level 4 Note #24

From: D. Lickly

Date: 7 October 1968

Level 4 people will have questions about specific programs and routines included in their tests. The people who are responsible for the AGC programs and routines are listed below:

Programs

P12	Larry Berman
P06	Dana De Wolf
P20	Peter Volante, Virginia Dunbar
P21	Ted Crocker
P22	Peter Volante, Virginia Dunbar
P25	Peter Volante, Jack Connor
P27	Paul Fagin
P30	Peter Adler
P31	Pat White
P32	Pat White
P33	Pat White
P34	Pat White
P35	Pat White
P38	Jane Goode
P39	Jane Goode
P40	Peter Adler
P41	Peter Adler
P42	Peter Adler
P47	Bob Covelli
P51	Don Millard
P52	Don Millard
P57	Don Millard
P63-P67	Don Eyles
P70	Walter Bernikowich
P71	Walter Bernikowich
P72	Pat White
P73	Pat White
P74	Pat White
P75	Pat White
P76	Ted Crocker
P78	Jane Goode
P79	Jane Goode

Routines

R03 Peter Weissman
R04 Jim Kernan
R05 Peter Volante
R10 Walter Bernikowich
R11 Walter Bernikowich
R12 Bob Covelli
R13 Don Eyles
R21-R25 Peter Volante
R29 Peter Volante
R30 Frank Gauntt
R31 Ted Crocker
R36 Ted Crocker
R47 Jim Kernan, Phyllis Rye
R50-R55 Don Millard
R59 Don Millard
R60 Frank Gauntt
R61/R65 Virginia Dunbar, Jack Connor
R62 Frank Gauntt
R63 Frank Gauntt
R00 Dana DeWolf
R02 Dana DeWolf
R33 George Cox
R77 Jim Kernan

Miscellaneous Areas

Pinball John Vella, Marjorie Besas
Display Interface Margaret Hamilton, Phyllis Rye
Restarts, Fresh Start &
other Service areas Phyllis Rye, Dana DeWolf
Integration Bill Ostanek

Those responsible for the environment programs and routines are:

Programs

P00 Keith Glick
P06 Bob Wadsworth, Izzy Beilen
P12 Herb Chasan
P20 Eric Korngold
P21 Eric Korngold
P22 Eric Korngold
P25 Keith Gliel, Eric Korngold
P27 Lance Drane
P30 Herb Chasan
P31 Herb Chasan
P32 Herb Chasan
P33 Herb Chasan
P34 Herb Chasan
P35 Herb Chasan
P38 Herb Chasan
P39 Herb Chasan
P40 Herb Chasan

P41 Herb Chasan
P42 Herb Chasan
P47 Herb Chasan
P51 Bob Wadsworth, Lance Drane
P52 Bob Wadsworth, Lance Drane
P57 Bob Wadsworth, Lance Drane
P63-P68 Herb Chasan
P70-P75 Herb Chasan
P78 Herb Chasan
P79 Herb Chasan

Routines

R00 Lance Drane
R02 Bob Wadsworth
R03 Lance Drane
R04 Keith Glick
R05 Keith Glick
R10-R14 Herb Chasan
R21-R25 Eric Korngold
R29 Eric Korngold
R30 Lance Drane
R31 Keith Glick, Lance Drane
R32 Keith Glick
R33 Lance Drane
R36 Keith Glick, Lance Drane
R40 Herb Chasan
R41 Keith Glick
R47 Keith Glick
R50-R55 Lance Drane, Bob Wadsworth
R59 Lance Drane, Bob Wadsworth
R60 Herb Chasan
R61 Herb Chasan, Lance Drane
R62 Herb Chasan
R63 Herb Chasan
R65 Herb Chasan
R77 Eric Korngold

Date 10/18/68

LUMINARY LEVEL 4 TEST DESCRIPTION & PERSONNEL ASSIGNMENTS

TASK	DESCRIPTION & SEQUENCE	RESPONSIBLE ENGINEER
L4.1	Separation Test (Lunar Env-Hybrid)	Dion/Pickford Batra/Covelli
L4.2	Return to Earth Abort (Lunar Env-Digital)	Dion/Pickford Bernikowich/Millard
L4.3	Descent Orbit Injection (Lunar Env-Hybrid)	Pickford/Pickford Eyles/Covelli
L4.4	Powered Descent and Coast (Lunar Env-Digital)	Pu/Pickford Bernikowich/Millard
L4.5	Powered Descent (Lunar Env-Hybrid)	Pu/Pickford Eyles/Covelli
L4.6	Abort from Touchdown (Hybrid)	Pu/Pickford Adler/Covelli
L4.7	Abort from Late Descent (Digital)	Berman/Millard Pickford/Pickford
L4.8	Lunar Surface Navigation (Digital)	Millard/Millard Pickford/Pickford
L4.9	Lunar Surface Navigation (Digital)	Moore/Millard
L4.10	Lunar Launch (Digital)	Pickford/Pickford Berman/Millard
L4.11	CSI-CDH with IMU Realign and Plane Change (Lunar Env-Digital)	Kornreich/Pickford White/Volante
L4.12	CDH-TPI Sequence (Lunar Env-Digital)	Kornreich/Pickford White/Volante
L4.13	TPI-TPM Sequence (Lunar Env-Digital)	Kornreich/Pickford White/Volante

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LUNAR LEVEL 4 TEST DESCRIPTION & PERSONNEL ASSIGNMENTS

TASK	DESCRIPTION & SEQUENCE	RESPONSIBLE ENGINEER
L4.14	SOI-SOM Sequence (Lunar Env-Digital) P00, P20, R31, P38 (Mode 1), P42, R30, P20, P39, P41, R31, P00, R63	Templeman, Carroll/ Pickford Gauntt/Volante
L4.15	SOI-SOM-SOR Sequence (Lunar Env-Digital) P00, P20, P38 (Mode 1), P40, P20, P39, P41, P20, P38 (Mode 2), P40	Templeman, Carroll/ Pickford Griggs/Volante
L4.16	CSM Active CSI-CDH Sequence (Lunar-Digital) P00, P25, P72, P76, P73, P76, R31, P21	Kornreich/Pickford Volante/Volante
L4.17	CSM Active CDH-TPI Sequence (Lunar-Digital) P00, P25, P73, P76, P74, R36, P76, P00	Kornreich/Pickford Connor/Volante
L4.18	CSM Active TPI-TPM Sequence (Lunar-Digital) P00, P25, P74, R36, P76, P75, P76, P00, R31	Kornreich/Pickford Connor/Volante
L4.19	CSM Active SOI-SOM Sequence (Lunar-Digital) P00, P20, P78 (Mode 1), P76, P20, P79	Templeman, Carroll/ Pickford Gauntt/Volante
L4.20	CSM Active SOI-SOM-SOR Sequence (Lunar-Digital) P00, P25, P78 (Mode 1), P76, P79, P76, P78 (Mode 2), P76, P21	Templeman, Carroll/ Pickford Griggs/Volante
L4.21	CSM Docked (Cislunar-Digital) P00, R05, P27, P31, P40	Dion/Pickford Fisher/Millard
L4.22	CSM Docked - IMU Align (Lunar Orbit-Digital) P00, IMU OFF, P06, LGC ON, IMU ON, P51, P00, R05	NA to 23A Fisher/Millard
L4.23	SOR with IMU OFF (Earth Orbit-Hybrid) P00, IMU OFF, P38, R36, IMU ON, P51, P41, R31, P00, R63	Templeman, Carroll/ Pickford Covelli/Covelli
L4.24	SOM with IMU OFF (Earth Orbit-Hybrid) P00, P39, P52, P42, R31, P00, R63, R05	Templeman, Carroll/ Pickford Covelli/Covelli
L4.25	External Delta V with CSM Update (Lunar-Hybrid) P00, P20, P30, P00, R62, P42, R30, P20, R31, P00	Dion/Pickford Braunhardt/Covelli
L4.26	External Delta V with Manual Acquire (Lunar-Digital) P00, P76, P20, R23, P30, P00, R62, P41, R30, P20, R31	Dion/Pickford Fagin/Volante

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LUMINARY LEVEL 4 TEST DESCRIPTION & PERSONNEL ASSIGNMENTS

TASK	DESCRIPTION & SEQUENCE	RESPONSIBLE ENGINEER
L4. 27	CSM Active CSI with RR Search (Lunar-Hybrid) P00, P25, P76, P20, R24, P00, P27, P20, R24, P72, R36, P76, P20	Kornreich/Pickford Hatch/Covelli
L4. 28	TPI-TPM Sequence (Earth-Hybrid) P00, P20, P34, P42, P20, P35, P41, R30, P21	Kornreich/Pickford Wiggins/Covelli
L4. 29	Lunar Surface Navigation (Digital) P00, P21, P22 (Option 2), P21, R30, P22 (Option 1), R31	Pickford/Pickford Dunbar/Volante
L4. 30	Lunar Surface Navigation with RR Search (Digital) P00, P76, P22 (Option 1), R24, P21	Pickford/Pickford Dunbar/Volante

LUMINARY LEVEL 4 STATUS

Task	Engineering Verification & run initialization data		Initial Input Prepared*		Test Sequence Run Completely Through		New LGC Time-Line to 23A							
	Req.	Pred.	Actual	Req.	Pred.	Actual	Req.	Pred.	Actual					
L4.1	6/24	8/16	8/21	7/1	8/23	8/23	7/22	9/20	9/23	10/11	10/8	7/29	10/8	10/11
L4.2	6/28	7/15	7/26	7/5	8/16	8/23	7/12	9/6	9/6	9/6	9/20	7/19	9/20	9/23
L4.3	6/24	7/15	7/12	7/8	7/22	7/22	7/29	8/1	8/6	8/6	8/1	8/5	9/6	9/9
L4.4	6/28	8/16	8/20	7/5	9/13	9/13	7/19	10/9	10/9	10/9	10/9	7/26	10/11	10/14
L4.5	6/24	8/16	8/20	7/1	8/23	8/24	7/22	8/30	8/30	8/30	8/30	7/29	10/9	10/9
L4.6	7/30	8/30	8/29	8/6	9/6	9/9	8/15	9/24	10/1	10/1	10/11	8/22	10/11	10/11
L4.7	6/24	8/30	8/30	7/1	9/11	9/13	7/12	10/24	9/5	9/5	10/24	7/19	10/28	9/23
L4.8	6/24	7/12	7/12	7/1	7/19	7/19	7/15	9/6	9/17	9/17	9/6	7/22	9/13	9/24
L4.9	6/28	7/12	7/12	7/5	7/19	7/19	7/19	9/11	8/9	8/9	9/11	7/26	9/13	9/24
L4.10	6/24	6/28	7/9	7/1	8/9	8/7	7/12	8/16	8/9	8/9	8/16	7/19	10/9	10/15
L4.11	6/28	8/16	9/23	7/5	9/23	9/23	7/17	9/27	9/26	9/26	9/27	7/24	10/1	10/7
L4.12	6/28	7/15	7/11	7/5	8/9	8/2	7/17	9/13	9/17	9/17	9/13	7/24	9/25	10/7
L4.13	6/28	7/15	7/11	7/5	8/9	8/9	7/17	9/13	9/17	9/17	9/13	7/24	9/25	10/7
L4.14	7/15	7/31	8/12	7/22	8/2	8/12	8/5	8/30	8/30	8/30	8/30	8/12	10/8	10/8
L4.15	7/15	7/31	8/8	7/22	8/2	8/8	8/5	9/13	9/18	9/18	9/13	8/12	10/8	10/7
L4.16	7/15	8/14	8/19	7/22	8/16	8/21	7/30	9/13	9/18	9/18	9/13	8/5	9/27	10/1
L4.17	6/28	7/15	8/8	7/5	9/6	9/6	7/15	9/13	9/17	9/17	9/13	7/22	9/24	9/30
L4.18	7/25	7/15	8/8	8/1	8/9	8/9	8/15	9/6	9/6	9/6	9/6	8/22	9/24	9/30
L4.19	7/15	7/31	8/5	7/22	8/2	8/5	8/5	8/30	8/28	8/28	8/30	8/12	10/8	10/8
L4.20	7/15	7/31	9/25	7/22	8/2	10/2	8/5	8/5	10/2	10/2	8/5	8/12	10/8	10/7
L4.21	6/28	8/13	8/16	7/5	8/20	8/23	7/15	8/27	8/30	8/30	8/27	7/22	9/10	9/10
L4.22	7/25	NA	NA	8/1	7/22	7/22	8/15	8/1	8/5	8/5	8/1	NA	NA	NA
L4.23	6/10	6/28	7/1	6/18	7/15	7/15	6/28	7/25	7/25	7/25	7/25	7/5	9/9	9/13
L4.24	6/10	6/28	7/1	6/28	7/15	7/15	7/8	7/25	7/25	7/25	7/25	7/15	9/13	9/18

Hybrid script and initialization deck prepared or all digital simulation deck read by the computer.

LUMINAERY LEVEL 4 STATUS

Date 10/18/68

Task	New Engineering Verification Data to match new time line		Finish Testing				Documentation Complete		Test Data Points Comp. verified.
	Req.	Actual	Req.	Pred.	Actual	Req.	Pred.	Actual	
	L4.1	8/5	10/24	9/23	10/30		10/7	11/6	
L4.2	7/26	10/8	8/23	10/25		9/6	11/6		
L4.3	8/12	9/13	9/23	10/30		10/7	11/11		
L4.4	8/2	10/23	8/23	10/30		9/6	11/11		
L4.5	8/5	10/16	9/23	10/30		10/7	11/11		
L4.6	8/29	10/15	9/10	10/30		9/24	11/11		
L4.7	7/26	10/31	8/26	11/4		9/9	11/10		
L4.8	7/29	9/27	8/26	10/25		9/9	11/6		
L4.9	8/2	9/27	8/30	10/25		9/13	11/6		
L4.10	7/26	10/23	8/26	10/30		9/9	11/11		
L4.11	7/31	10/10	9/13	10/25		9/27	11/6		
L4.12	7/31	10/10	9/13	10/25		9/27	11/6		
L4.13	7/31	10/10	9/13	10/25		9/27	11/6		
L4.14	8/16	10/11	9/9	10/25		9/23	11/6		
L4.15	8/16	10/11	9/9	10/25		9/23	11/6		
L4.16	8/12	10/2	9/13	10/25		9/27	11/6		
L4.17	7/26	9/27	8/9	10/11	10/11	8/23	10/25		
L4.18	8/29	9/27	9/19	10/11	10/11	10/3	10/25		
L4.19	8/16	10/11	9/9	10/25		9/23	11/6		
L4.20	8/16	10/11	9/9	10/18	10/16	9/23	11/1		
L4.21	7/26	9/17	8/9	10/25		8/23	11/6		
L4.22	NA	NA	9/19	9/27	9/20	10/3	10/25		
L4.23	7/12	9/18	8/12	9/27	10/1	8/26	11/6		
L4.24	7/22	9/23	10/4	10/4	10/7	8/26	11/6		

LUMINARY LEVEL 4 STATUS

Task	Engineering Verification & run initialization data		Initial Input Prepared*		Test Sequence Run Completely Through		New LGC Time-Line to 23A					
	Req.	Pred.	Actual	Req.	Pred.	Actual	Req.	Pred.	Actual			
L4.25	7/25	8/16	8/16	8/1	8/30	8/30	8/12	9/25	9/30	8/19	9/27	10/3
L4.26	7/15	8/15	8/16	7/22	8/26	8/26	8/12	9/13	9/13	8/19	9/27	10/7
L4.27	7/25	8/13	8/16	8/1	8/20	8/20	8/12	9/27	10/3	8/19	10/2	10/7
L4.28	8/19	7/22	7/24	8/26	8/7	8/12	9/5	8/30	9/4	9/11	9/5	10/7
L4.29	7/15	8/30	8/28	7/22	9/6	8/30	8/2	9/13	9/16	8/9	9/25	9/26
L4.30	7/15	8/15	8/15	7/22	8/30	8/30	8/2	9/13	9/16	8/9	9/25	9/25

LUMINARY LEVEL 4 STATUS

Task	New Engineering Verification Data to match new time line		Finish Testing		Documentation Complete		Test Data Points Comp. verified.		
	Req.	Pred.	Actual	Req.	Pred.	Actual		Req.	Pred.
L4.25	8/23	10/2	10/4	9/6	10/11	10/15	9/20	11/1	
L4.26	8/23	10/10	10/8	9/6	10/18	10/18	9/20	11/1	
L4.27	8/23	10/10	10/10	9/6	10/18	10/22	9/20	11/1	
L4.28	9/16	9/13	10/9	9/30	10/17	10/17	10/7	10/31	
L4.29	8/16	9/27	9/30	9/6	10/11	10/10	9/20	10/25	
L4.30	8/16	9/27	9/26	9/6	10/11	10/10	9/20	10/25	