

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: January 27, 2016

For the Period: 01/28/16 to 02/15/16 (16-028 – 16-046)

DSN OPSCHIEF (1) 230-102

DSOT (1) 230-102

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 *Leonard.F.Burlaga@nasa.gov
 *Donald-Gurnett@uiowa.edu

FLIGHT TEAM (14) 600-100

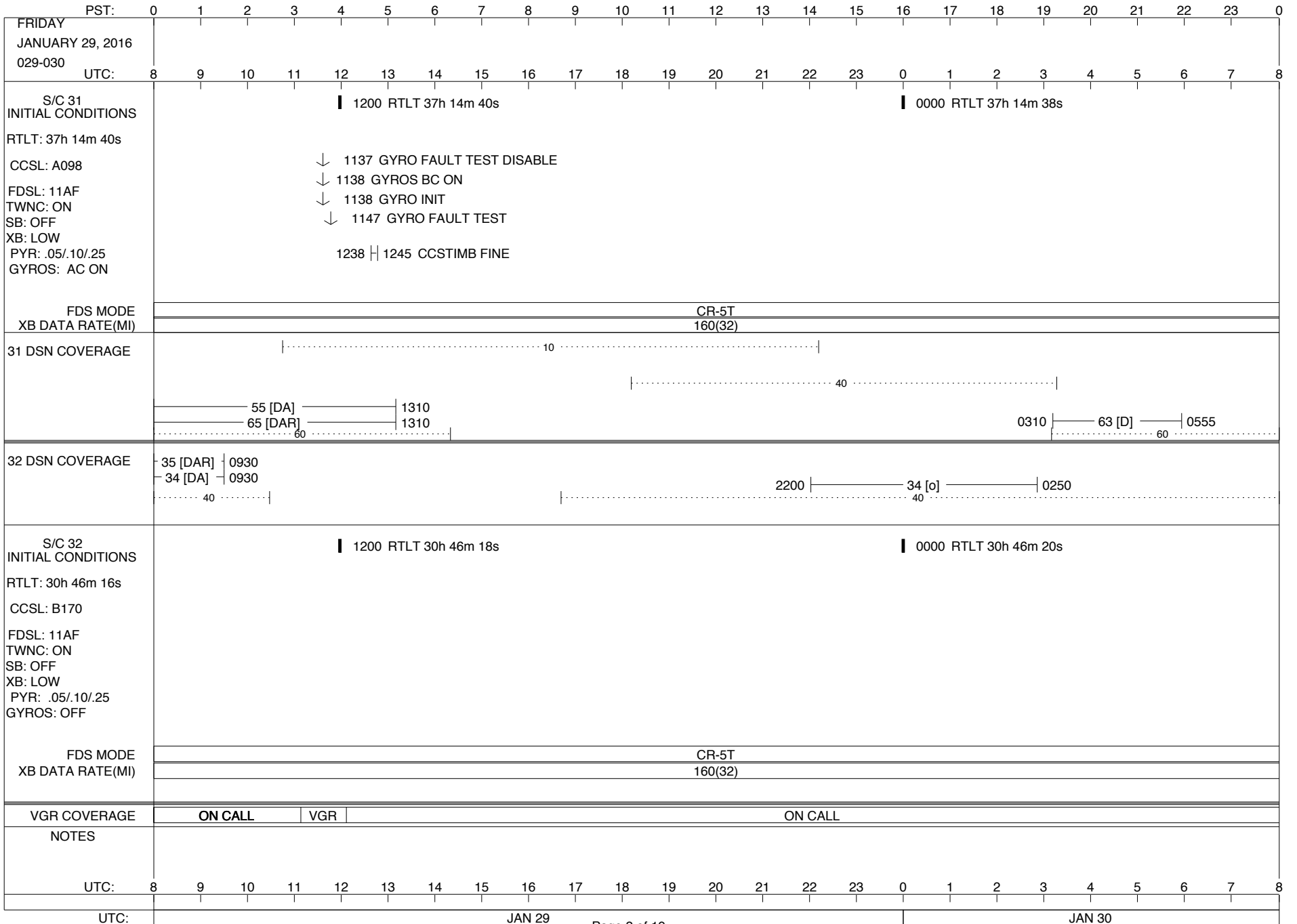
Dodd, S.
 Hall, J.
 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina
 Peralta, F.
 Weeks, T.
 Wong, R.
 Yang, L.
 Zottarelli, L.
 *odivers@san.rr.com

LEGEND:
 ▽ = R/T Command (Last chance or Contingency)
 ▼ = R/T Command (Scheduled)
 * = Result of R/T Command
 n = (where n = 1,2,3 ..) Special Note, see bottom of page
 A = Arrayed station
 B = BLF
 D = Downlink only pass
 H = High Power Transmitter
 R = Array Reference Antenna
 T = TLC Uplink
 U = Uplink only pass
 [o] = Ramp-through

*Electronic Copy Only
 (16 – Dist/N: Paper Copies)
 09/08/10

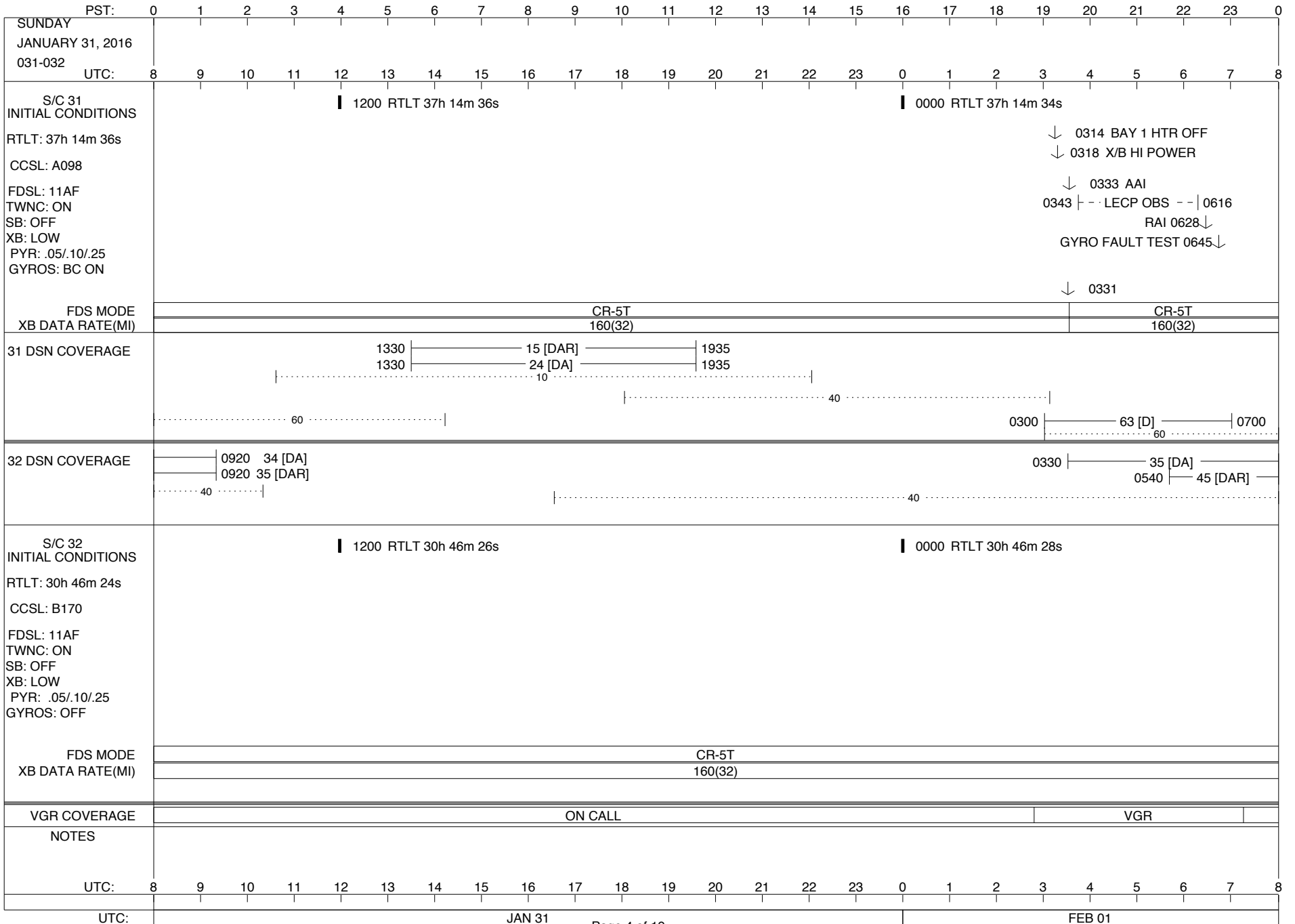
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 14m 42s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: AC ON	1200 RTLTL 37h 14m 40s											0000 RTLTL 37h 14m 40s															
FDS MODE	CR-5T													CR-5T													
XB DATA RATE(MI)	160(32)													160(32)													
31 DSN COVERAGE	1335 ----- 15 [DAR] ----- 1645 1335 ----- 26 [DA] ----- 164510.....60.....										40.....0625 55 [DA] 0625 65 [DAR] 60.....															
32 DSN COVERAGE	- 35 [DA] 0930 - 45 [DAR] 093040.....										40.....0615 35 [DAR] 0615 34 [DA]															
S/C 32 INITIAL CONDITIONS RTLTL: 30h 46m 10s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 30h 46m 14s											0000 RTLTL 30h 46m 16s															
FDS MODE	CR-5T													CR-5T													
XB DATA RATE(MI)	160(32)													160(32)													
VGR COVERAGE	ON CALL																										
NOTES	[1] S/C 31=GS-4B @ 0332 XB=2.8K(41) NOT RECOVERABLE																										
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UTC:	JAN 28													JAN 29													



ISSUE DATE: 01/27/16 12:41

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		0330 - 0356 TAPPOS PWS/RH 0632 0633 TAPPOS 0644 0656																											
		0632 GS-4B 0633 ↓																											
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
31 DSN COVERAGE		<table border="0"> <tr> <td>1210 ----- 25 [DAR] ----- 1610</td> </tr> <tr> <td>1210 ----- 26 [DA] ----- 1610</td> </tr> <tr> <td> ----- 10 ----- 40 ----- 60</td> </tr> </table>																							1210 ----- 25 [DAR] ----- 1610	1210 ----- 26 [DA] ----- 1610	----- 10 ----- 40 ----- 60		
1210 ----- 25 [DAR] ----- 1610																													
1210 ----- 26 [DA] ----- 1610																													
----- 10 ----- 40 ----- 60																													
32 DSN COVERAGE		<table border="0"> <tr> <td>0345 ----- 34 [DA]</td> </tr> <tr> <td>0545 ----- 35 [DAR]</td> </tr> <tr> <td> ----- 40 ----- 40</td> </tr> </table>																							0345 ----- 34 [DA]	0545 ----- 35 [DAR]	----- 40 ----- 40		
0345 ----- 34 [DA]																													
0545 ----- 35 [DAR]																													
----- 40 ----- 40																													
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 20s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 30h 46m 22s												0000 RTLT 30h 46m 24s															
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
VGR COVERAGE		ON CALL																											
NOTES		[1] S/C 31=GS-4B @ 0632 XB=2.8K(41) NOT RECOVERABLE																											
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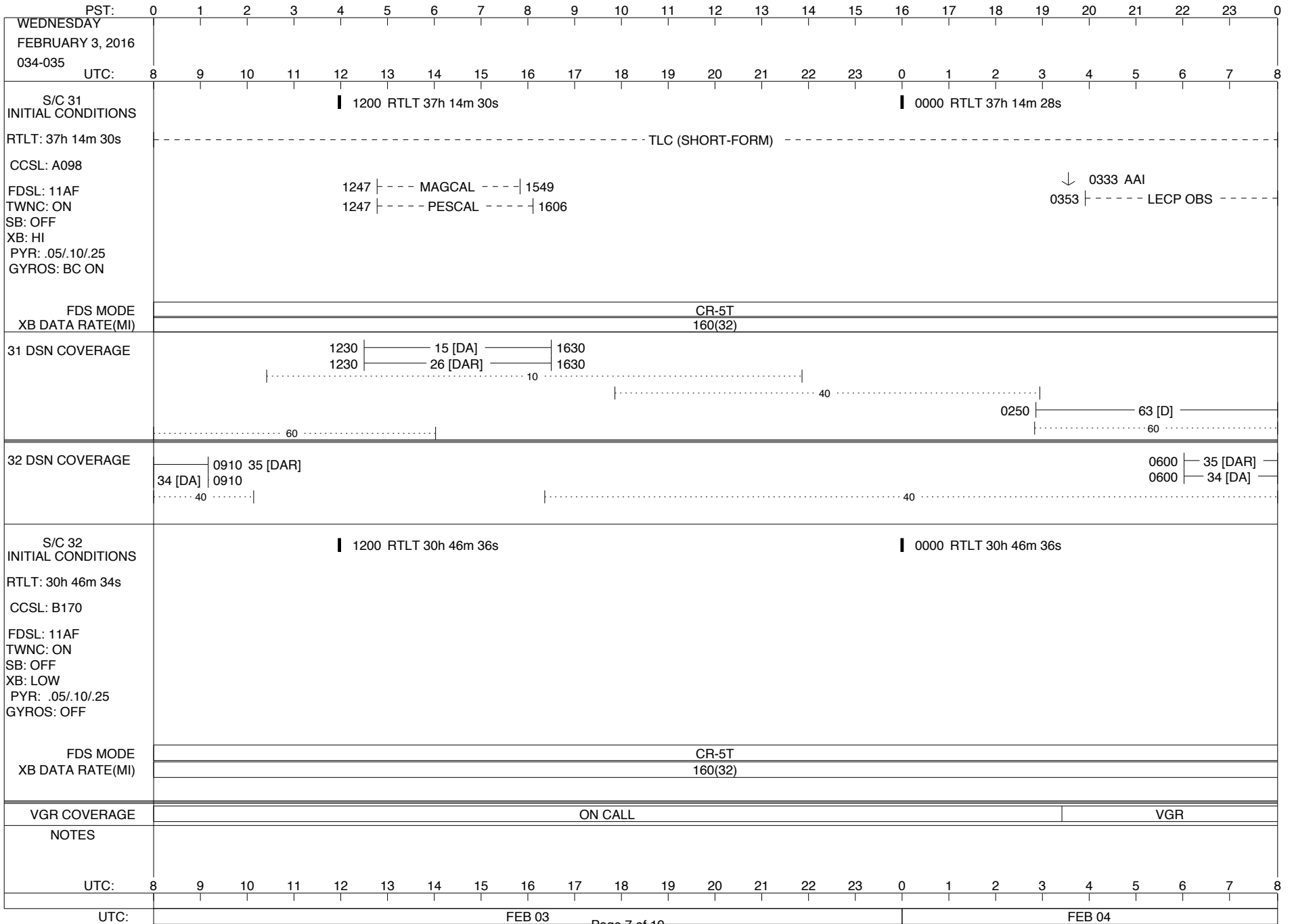
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S/C 31 INITIAL CONDITIONS RTLT: 37h 14m 34s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 37h 14m 34s											█ 0000 RTLT 37h 14m 32s															
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE 10 40															
 60											0300 ----- 63 [D] ----- 0700 60															
32 DSN COVERAGE	35 [DA] 0915 40 0915 45 [DAR]											2245 ----- 34 [o] ----- 0245 40															
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 28s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 30h 46m 28s											█ 0000 RTLT 30h 46m 30s															
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE														ON CALL										VGR			
NOTES																											
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8		
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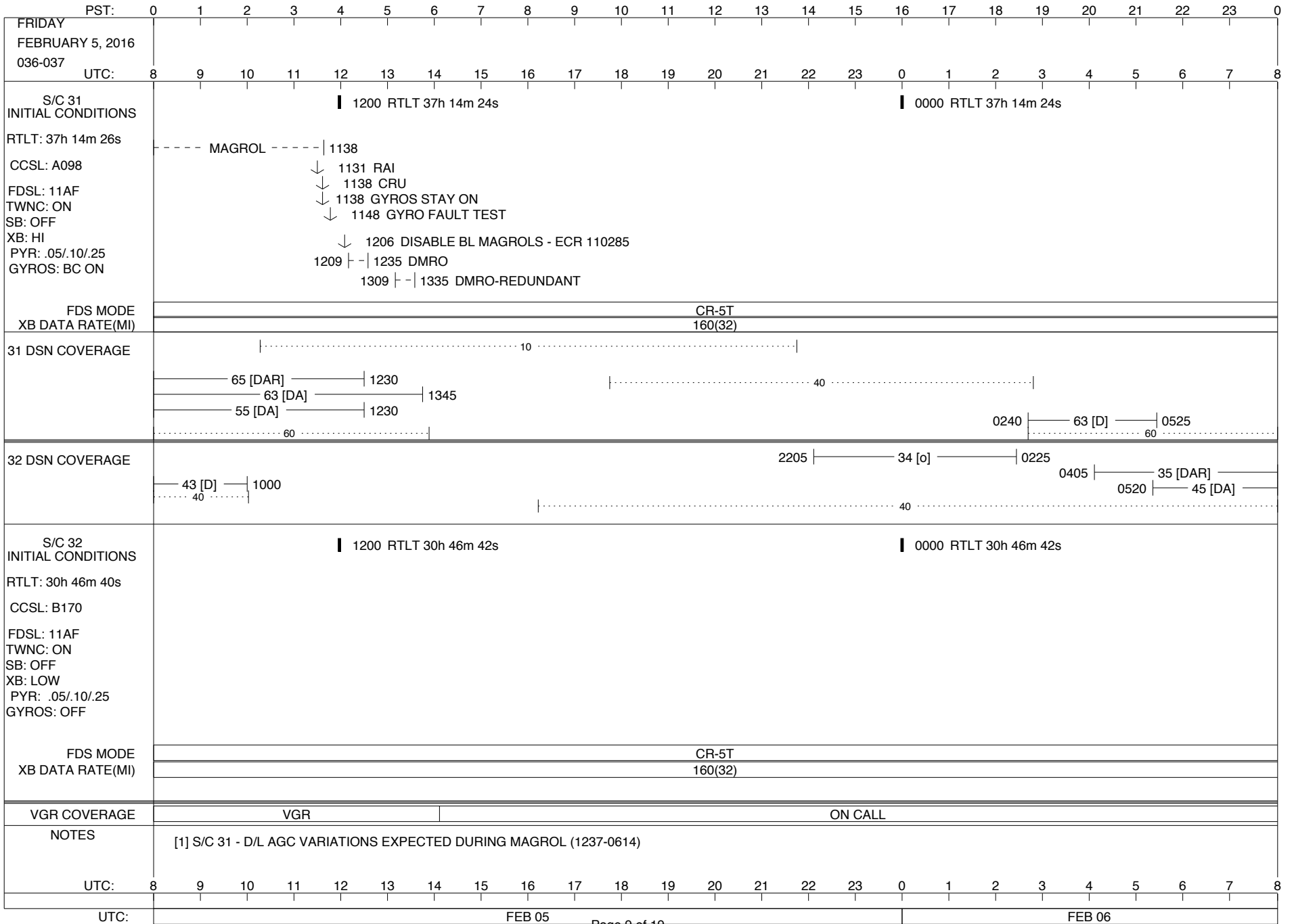
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PST: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8																																																																							
S/C 31 INITIAL CONDITIONS RTLT: 37h 14m 32s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON 1200 RTLT 37h 14m 32s 0000 RTLT 37h 14m 30s DUMMY (16:50) 0335 U/L 0400 - - TLC (SHORT-FORM) - ALL DB=.05 0429 ↓ AAI 0445 ↓ ASCAL 0445 - - 0522 RAI 0520 ↓ CRU 0522 ↓ YAW=.10 0531 ↓ ROLL=.25 0531 ↓ GYRO FAULT TEST 0532 ↓ 2055 2056 PWS/RH 2055 GS-4B 2056 0413 ↓ ↓ 0525																																																																							
FDS MODE XB DATA RATE(MI)																																																																							
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CR-5T												CR-5T						EL-40			CR-5T																																																		
160(32)												160(32)						40(30)			160(32)																																																		
31 DSN COVERAGE 10 40 60 0255 ----- 63 [T] ----- 0540 60																																																																							
32 DSN COVERAGE 40 40 0915 35 [DAR] 0915 34 [DA] 0510 ----- 35 [DAR] ----- 0530 ----- 34 [DA] -----																																																																							
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 30s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF 1200 RTLT 30h 46m 32s 0000 RTLT 30h 46m 34s																																																																							
FDS MODE XB DATA RATE(MI)																																																																							
<table border="1"> <tr> <td colspan="12">CR-5T</td> <td colspan="12">CR-5T</td> </tr> <tr> <td colspan="12">160(32)</td> <td colspan="12">160(32)</td> </tr> </table>																								CR-5T												CR-5T												160(32)												160(32)											
CR-5T												CR-5T																																																											
160(32)												160(32)																																																											
VGR COVERAGE ON CALL VGR ON CALL																																																																							
NOTES [1] S/C 31=GS-4B @ 2055 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=D/L AGC & SNR VARIATIONS EXPECTED DURING ASCAL (0445-0522) [3] S/C 31=EL-40 @ 0413 XB=40(30) [4] S/C=31CR-5T @ 0525 XB=160(32)																																																																							
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8																																																																							
UTC: FEB 02												FEB 03																																																											

ISSUE DATE: 01/27/16 12:41



ISSUE DATE: 01/27/16 12:41

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S/C 31 INITIAL CONDITIONS	1200 RTLT 37h 14m 28s														0000 RTLT 37h 14m 26s													
RTLT: 37h 14m 28s	----- TLC (SHORT-FORM) -----														D/L - 1843													
CCSL: A098															0539 AAI 0542 - MAGROL --													
FDSL: 11AF	- 0825 LECP OBS														0006 - 0032 TAPPOS													
TWNC: ON	↓ 0837 RAI														0308 0309 PWS/RH													
SB: OFF	↓ 0853 GYRO FAULT TEST														0320 0332 TAPPOS													
XB: HI																												
PYR: .05/10/25																												
GYROS: BC ON															↓ 0308 GS-4B 0309													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	1320 ----- 25 [DAR] ----- 1925														1320 ----- 26 [DA] ----- 1925													
	----- 10 -----														----- 40 -----													
	0845 63 [D]														0500 ----- 65 [DAR] -----													
	----- 60 -----														0500 ----- 63 [DA] -----													
															0505 ----- 55 [DA] -----													
															----- 60 -----													
32 DSN COVERAGE	0905 35 [DAR]														----- 40 -----													
	0905 34 [DA]														----- 40 -----													
															0530 ----- 43 [D] -----													
S/C 32 INITIAL CONDITIONS	1200 RTLT 30h 46m 38s														0000 RTLT 30h 46m 40s													
RTLT: 30h 46m 36s																												
CCSL: B170																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/10/25																												
GYROS: OFF																												
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
VGR COVERAGE	VGR														ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0308 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31=D/L AGC VARIATIONS EXPECTED DURING MAGROL (0542-1138)																											
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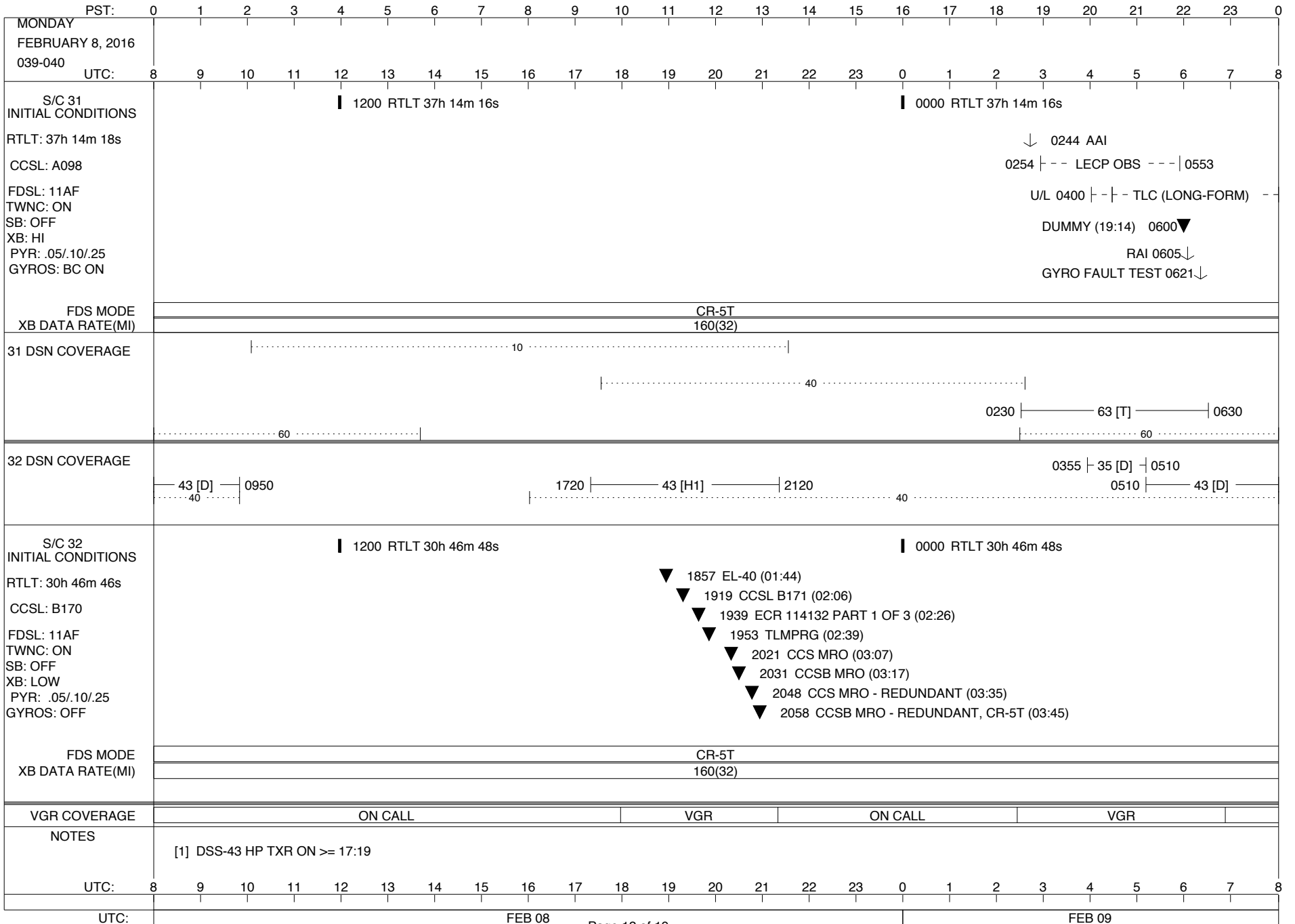
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 14m 24s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLTL 37h 14m 22s												0000 RTLTL 37h 14m 20s												
													0306 0318 TAPPOS PWS/RH 0608 0609 TAPPOS 0620 0621												
													0608 GS-4B 0609 ↓												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1145 ----- 24 [DA] ----- 1915 1145 ----- 25 [DAR] ----- 1915 ----- 10 ----- ----- 40 ----- ----- 60 -----																								
32 DSN COVERAGE	0855 35 [DAR] 0855 45 [DA] 40												0450 ----- 34 [DA] ----- 0515 ----- 45 [DAR] ----- 40												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 46m 42s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 30h 46m 44s												0000 RTLTL 30h 46m 44s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0608 XB=2.8K(41) NOT RECOVERABLE																								
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ISSUE DATE: 01/27/16 12:41

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S/C 31 INITIAL CONDITIONS RTLT: 37h 14m 20s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 37h 14m 20s												0000 RTLT 37h 14m 18s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1215 ----- 15 [DAR] ----- 1715 1215 ----- 25 [DA] ----- 1715 ----- 10 ----- 40 ----- 0235 ----- 63 [D] ----- 0635 ----- 60 ----- 60 ----- 60																								
32 DSN COVERAGE ----- 40 ----- 0855 34 [DA] ----- 0650 ----- 43 [D] ----- 40 ----- 0855 45 [DAR] ----- 40 ----- 40																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 44s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 30h 46m 46s												0000 RTLT 30h 46m 46s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR												
NOTES																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	FEB 07												FEB 08												

ISSUE DATE: 01/27/16 12:41



ISSUE DATE: 01/27/16 12:41

PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0			
TUESDAY FEBRUARY 9, 2016 040-041																												
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S/C 31 INITIAL CONDITIONS RTLTL: 37h 14m 16s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: BC ON	1200 RTLTL 37h 14m 14s												0000 RTLTL 37h 14m 12s															
----- TLC (LONG-FORM) -----																												
2031 2032 PWS/RH																												
↓ 2031 GS-4B 2032																												
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE	<p>Timeline for S/C 31 DSN COVERAGE:</p> <ul style="list-style-type: none"> 1130 - 1330: 24 [DA] (1330) 1130 - 1330: 25 [DAR] (1330) 10:00 - 10:10: Dotted line 40:00 - 40:10: Dotted line 60:00 - 60:10: Dotted line 																											
32 DSN COVERAGE	<p>Timeline for S/C 32 DSN COVERAGE:</p> <ul style="list-style-type: none"> 43 [D] - 0945: 40 (0945) 2205 - 0455: 35 [D] (0455) 40:00 - 40:10: Dotted line 																											
S/C 32 INITIAL CONDITIONS RTLTL: 30h 46m 48s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 30h 46m 50s												0000 RTLTL 30h 46m 50s															
<p>2211 PLSCAL - 2354</p> <p>2211 --- MAGCAL --- 0114</p> <p>2211 --- PESCAL --- 0131</p> <p>B171 CHKSUM 0211 0216</p> <p>ECR 114132 PART 1 0227 </p> <p>TLMPRG 0240 0300</p> <p>CCSA MRO 0309 0312</p> <p>CCSB MRO 0319 0323</p> <p>CCSA MRO - REDUNDANT 0337 0340</p> <p>CCSB MRO - REDUNDANT 0347 0351</p> <p>EL-40 0145 0352 CR-5T</p>																												
FDS MODE	CR-5T												EL-40						CR-5T									
XB DATA RATE(MI)	160(32)												40(30)						160(32)									
VGR COVERAGE	ON CALL												VGR						ON CALL									
NOTES	<p>[1] S/C 31=GS-4B @ 2031 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 32=EL-40 @ 0145 XB=40(30)</p> <p>[3] S/C 32=CR-5T @ 0352 XB=160(32)</p>																											
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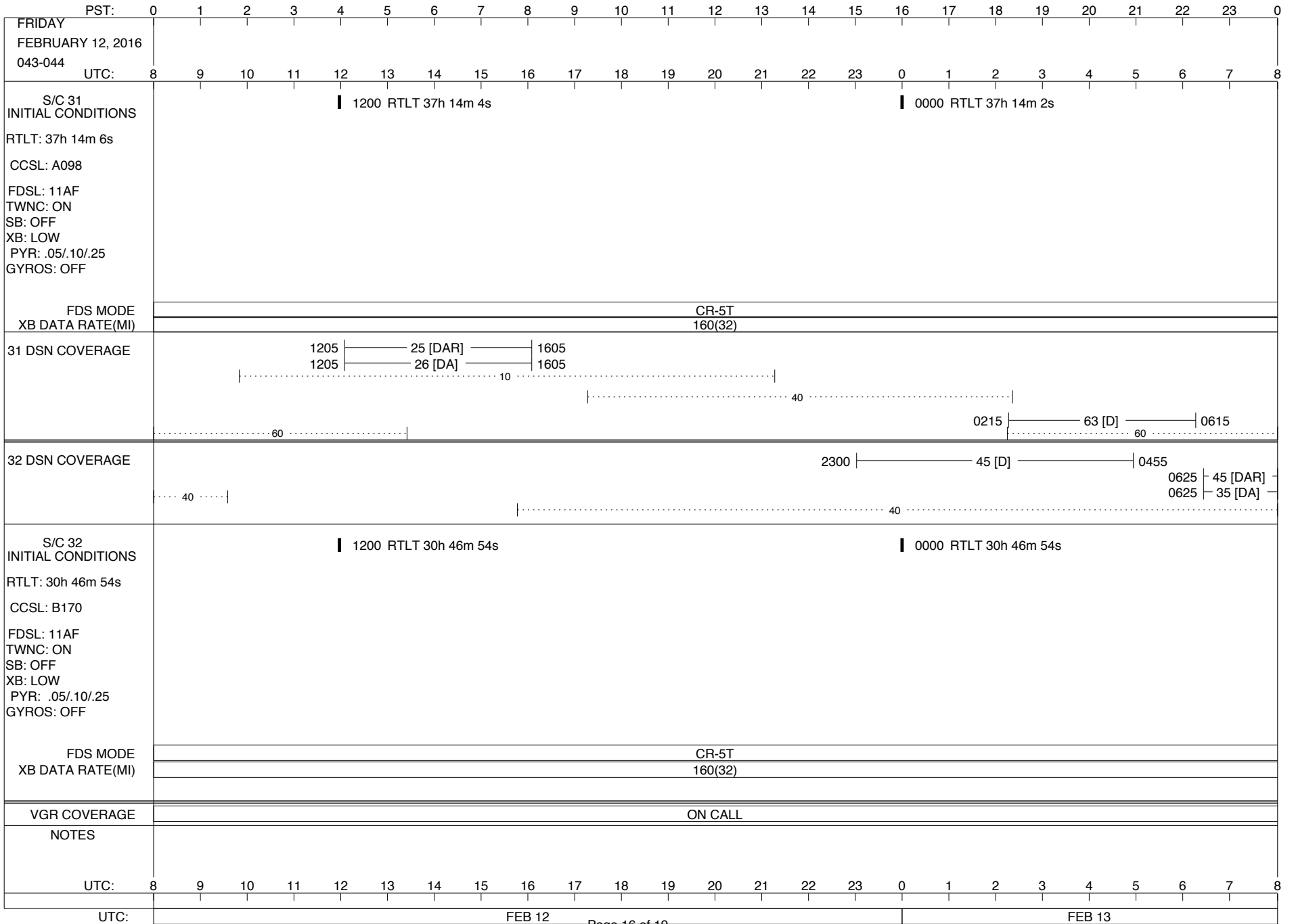
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WEDNESDAY																													
FEBRUARY 10, 2016																													
041-042																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		1200 RTLT 37h 14m 10s														0000 RTLT 37h 14m 10s													
RTLT: 37h 14m 12s		↓ 1308 AAI																											
CCSL: A098		1318 ----- LECP OBS ----- 1800														↓ 0531 YAW=.05													
FDSL: 11AF		↓ 1812 RAI														0541 ----- PLAYBACK -----													
TWNC: ON		----- TLC (LONG-FORM) -----														+ D/L - 1842													
SB: OFF		↓ 1828 GYRO FAULT TEST																											
XB: HI		1837 ----- 1947 TAPPOS																											
PYR: .05/10/25		↓ 1843 GYROS OFF														↓ 0541													
GYROS: BC ON																													
FDS MODE		CR-5T														PB-14													
XB DATA RATE(MI)		160(32)														1.4K(39)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS		1200 RTLT 30h 46m 52s														0000 RTLT 30h 46m 52s													
RTLT: 30h 46m 50s																													
CCSL: B170																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/10/25																													
GYROS: OFF																													
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
VGR COVERAGE		ON CALL							VGR							ON CALL							VGR						
NOTES																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
UTC:		FEB 10														FEB 11													

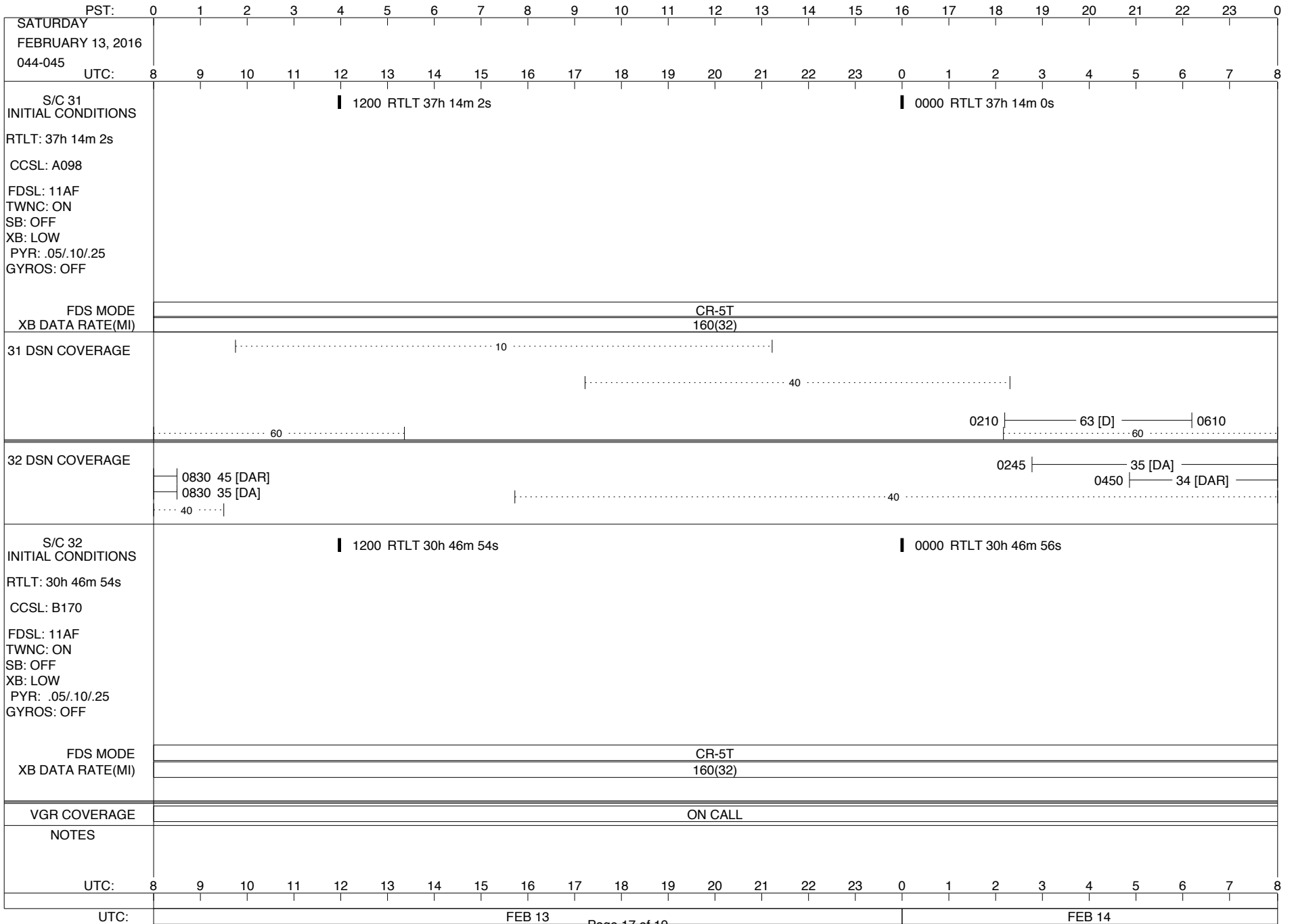
ISSUE DATE: 01/27/16 12:41

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THURSDAY FEBRUARY 11, 2016 042-043																									
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 37h 14m 10s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.05/.25 GYROS: OFF	█ 1200 RTLTL 37h 14m 8s												█ 0000 RTLTL 37h 14m 6s												
PLAYBACK	----- 1159												0226 0235 TAPPOS												
↓ 1203 X/B LOW POWER																									
↓ 1207 BAY 1 HTR ON																									
↓ 1208 YAW=.10																									
↓ 1159																									
FDS MODE	PB-14												CR-5T												
XB DATA RATE(MI)	1.4K(39)												160(32)												
31 DSN COVERAGE 10																								
63 [DA]	1215											 40												
65 [DAR]	1215																								
54 [DA]	1215																								
60												0215 63 [D] 0500 60												
32 DSN COVERAGE 40																								
1715 43 [2Ho] 2115												0055 34 [D] 0455 40												
S/C 32 INITIAL CONDITIONS RTLTL: 30h 46m 52s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 30h 46m 52s												█ 0000 RTLTL 30h 46m 54s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31=PB-14 @ 0541 XB=1.4K(39) [2] B171 BACKUP U/L TRACK, HP TXR ON >= 17:15																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	FEB 11												FEB 12												

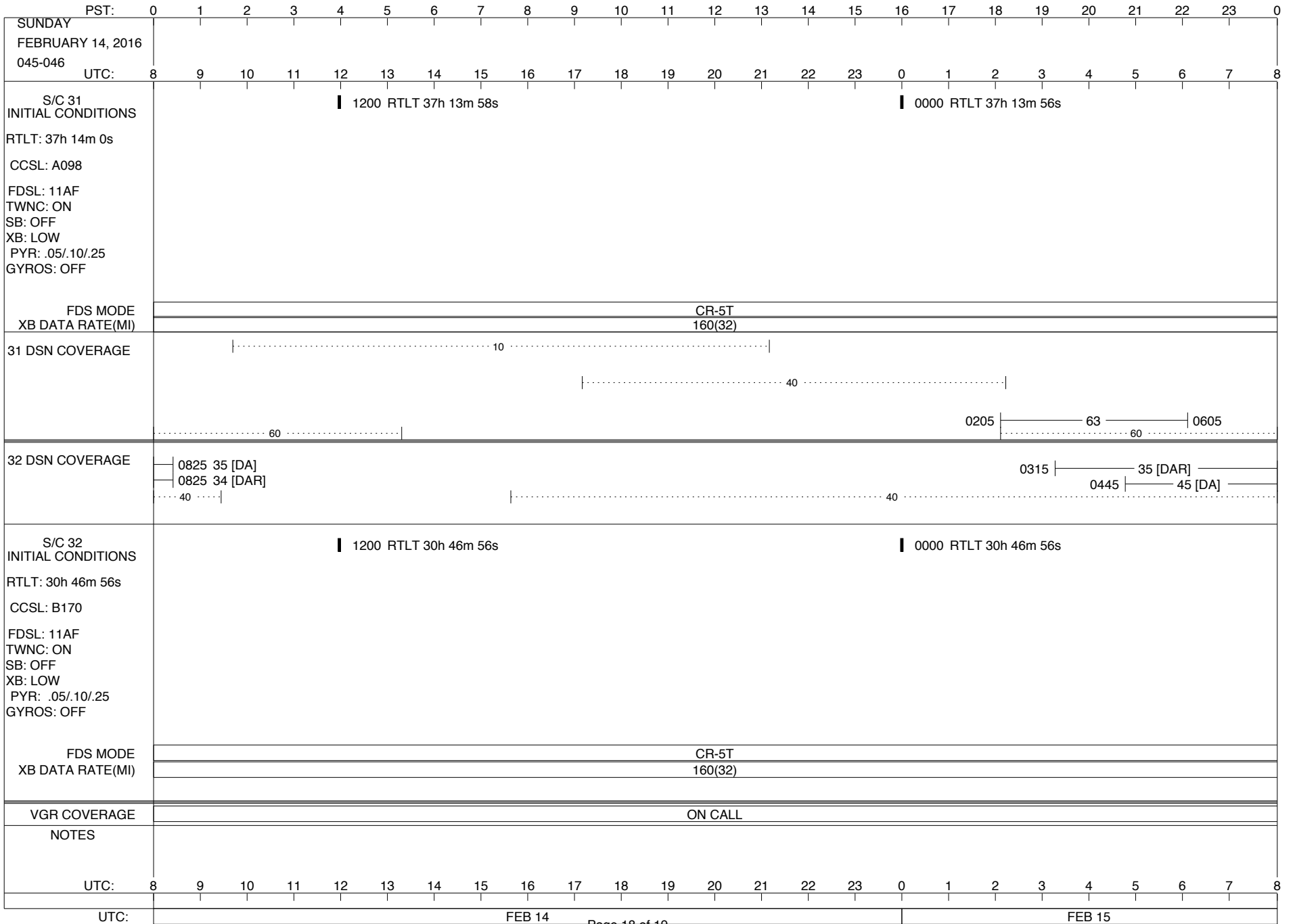
ISSUE DATE: 01/27/16 12:41



ISSUE DATE: 01/27/16 12:41



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ISSUE DATE: 01/27/16 12:41

PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
MONDAY FEBRUARY 15, 2016 046-047	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 37h 13m 56s CCSL: A098 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 37h 13m 54s</p> </div>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE10.....																								
60.....																								
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 2px;">0825 35 [DAR]</div> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 2px;">0825 45 [DA]</div> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 2px;">2040 -----43----- 2310</div> </div> <div style="margin-top: 5px;"> 40 </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 30h 46m 56s CCSL: B170 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 30h 46m 56s</p> </div>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	JPL HOLIDAY!																								
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	FEB 15												FEB 16												