

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: February 6, 2019

For the Period: 02/07/19 to 02/25/19 (19/038 – 19/056)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu Leonard.F.Burlaga@nasa.gov Donald-Gurnett@uiowa.edu	Dodd, S. Hall, J. Howard, S. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

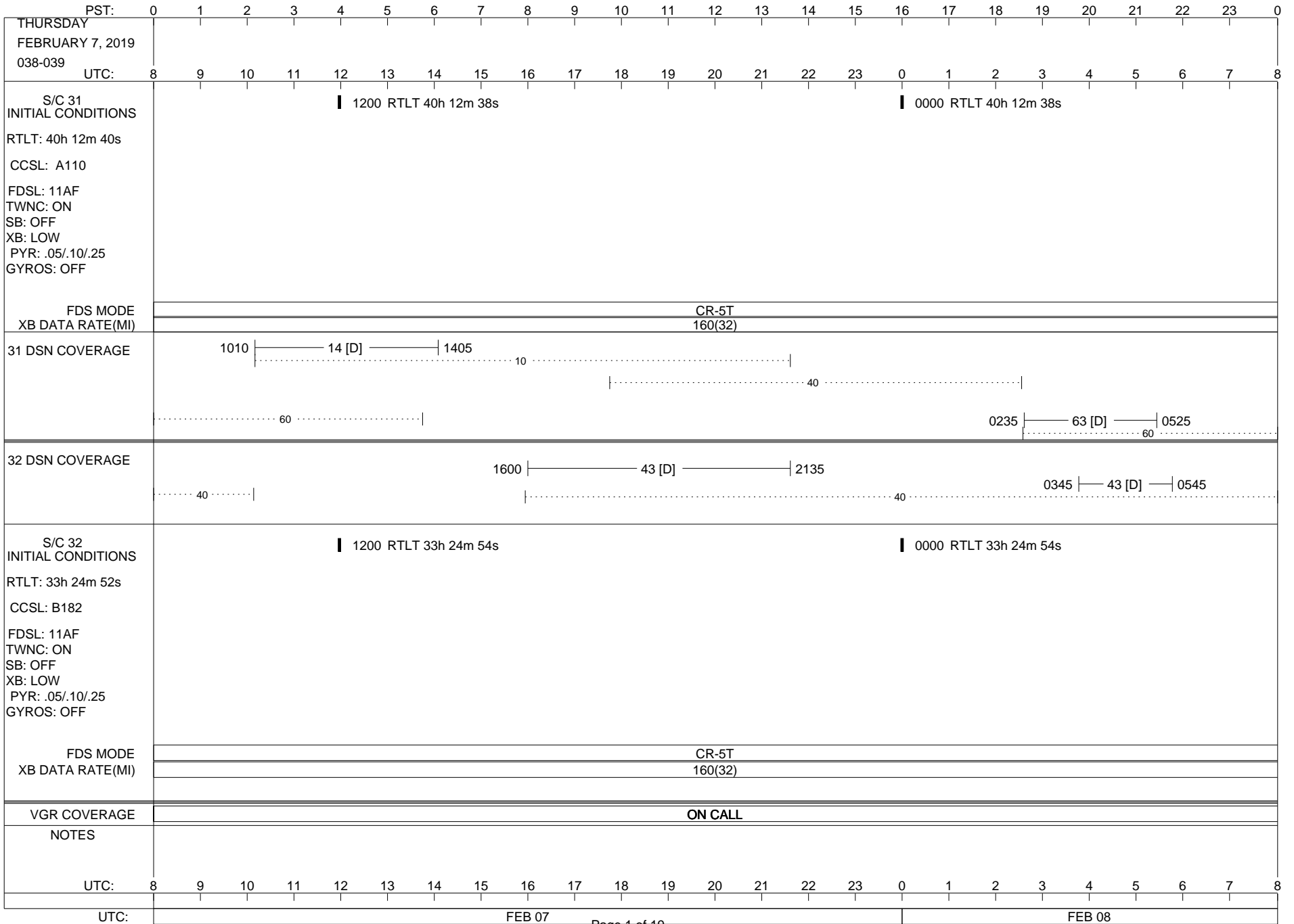
**LEGEND:**

- ▽ = 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

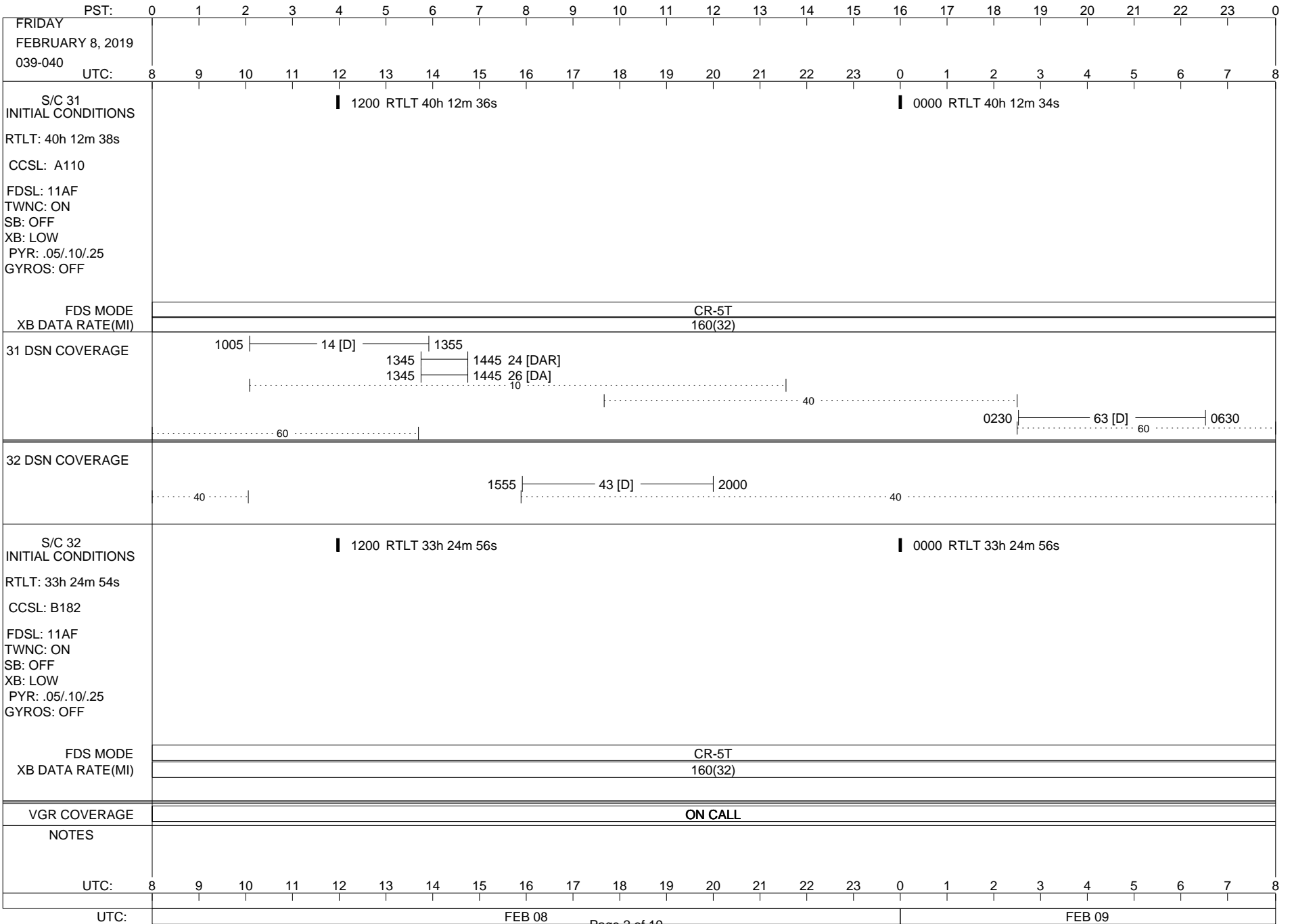
Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

02/27/17

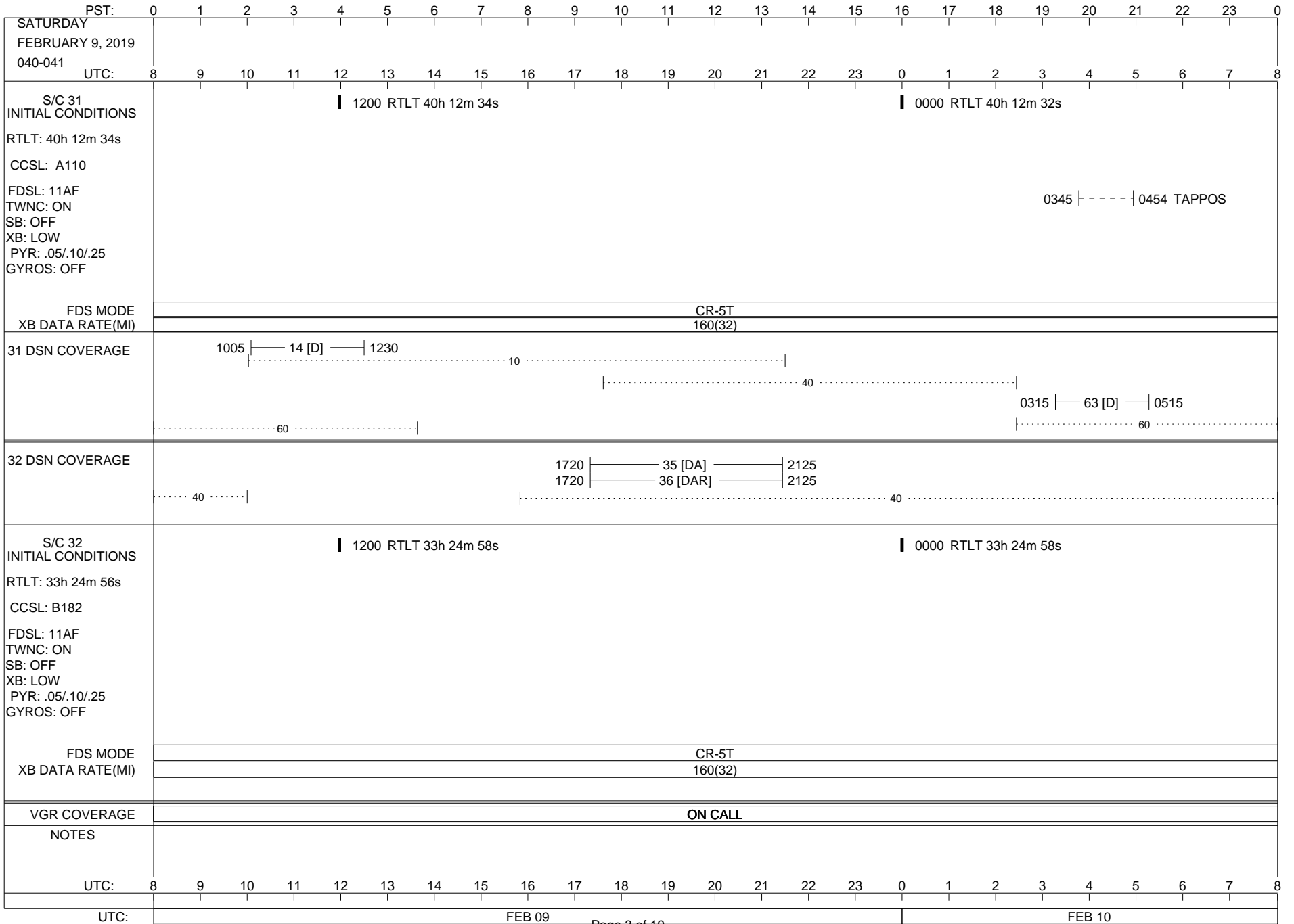
ISSUE DATE: 02/06/19 07:26



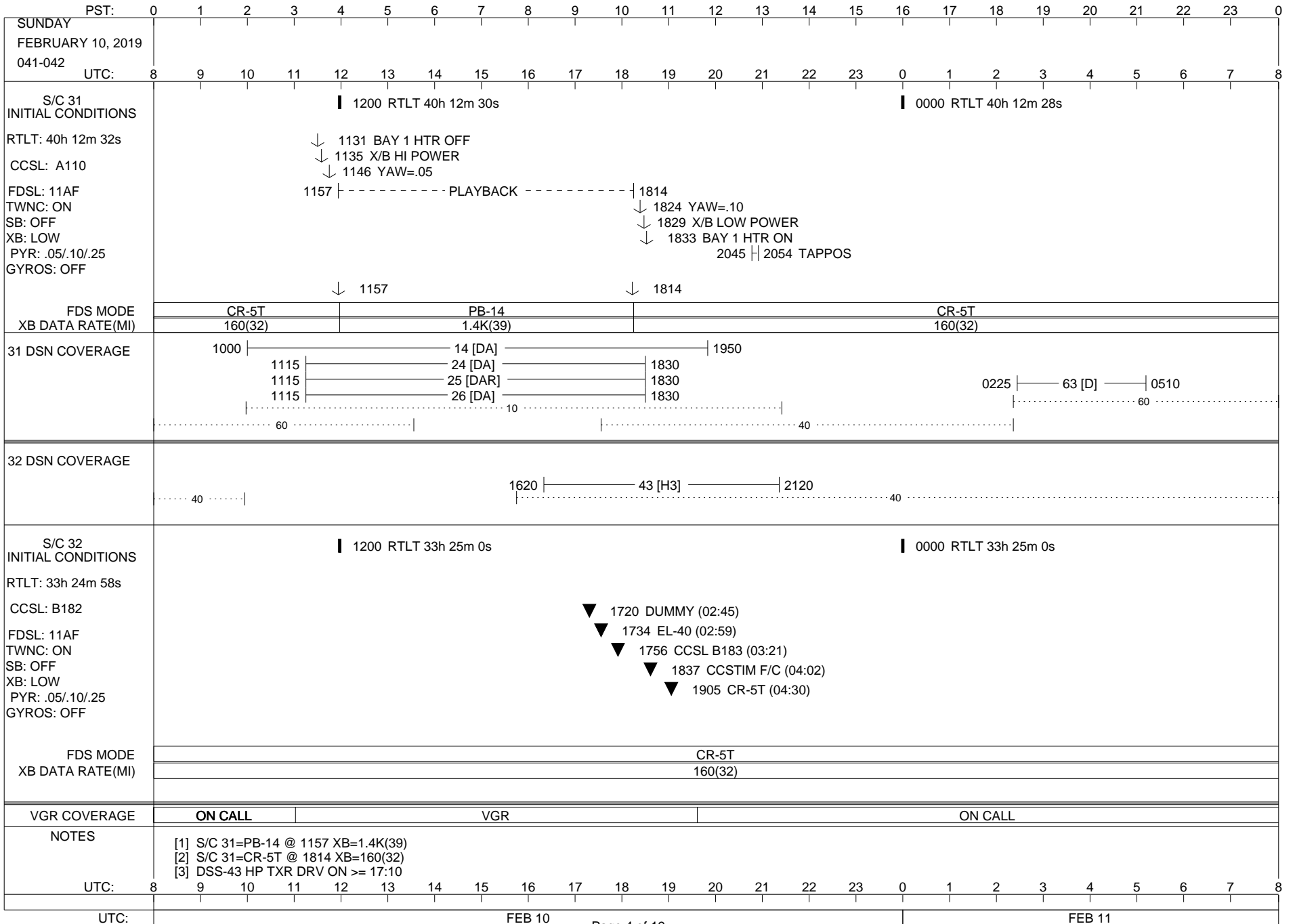
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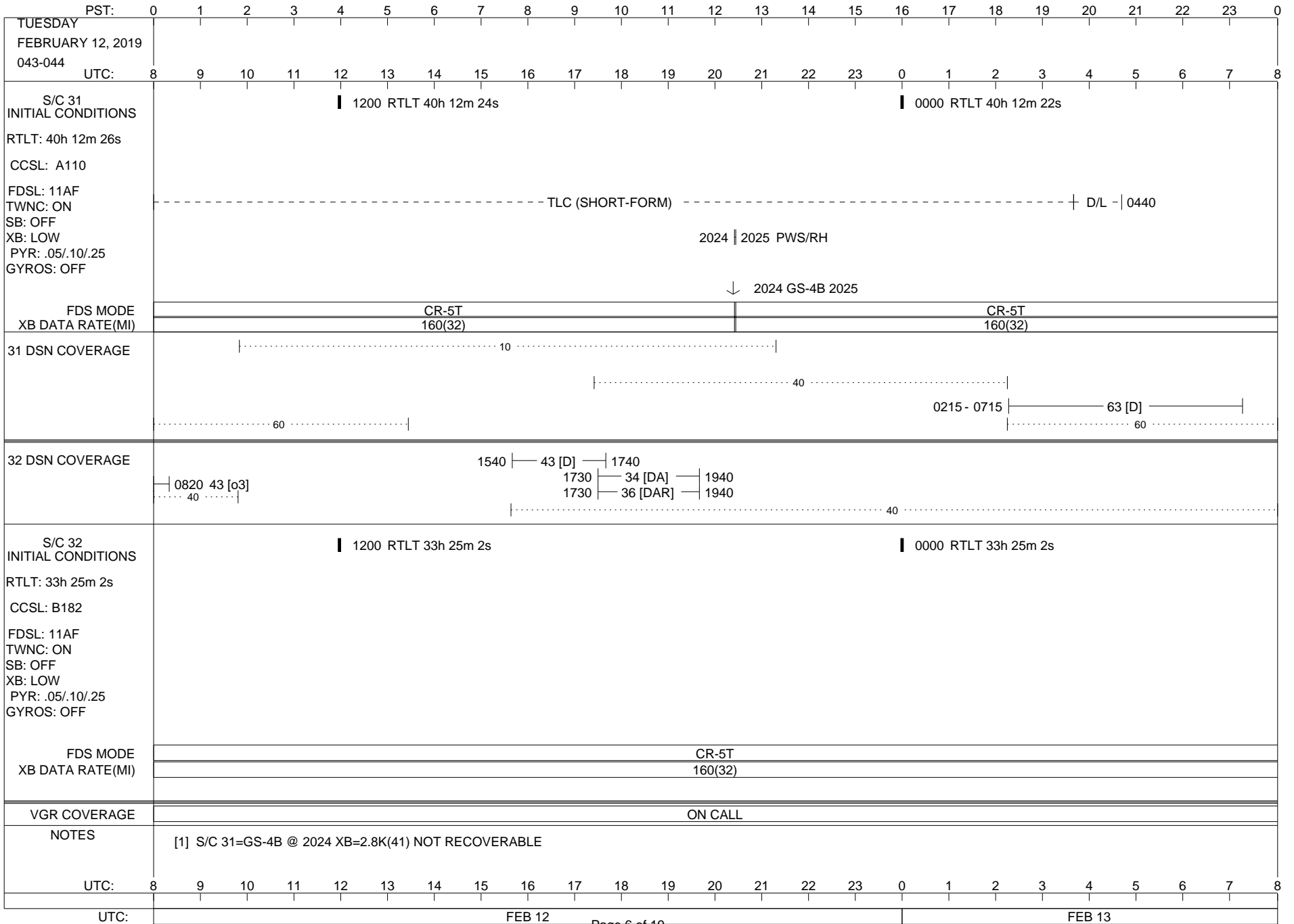
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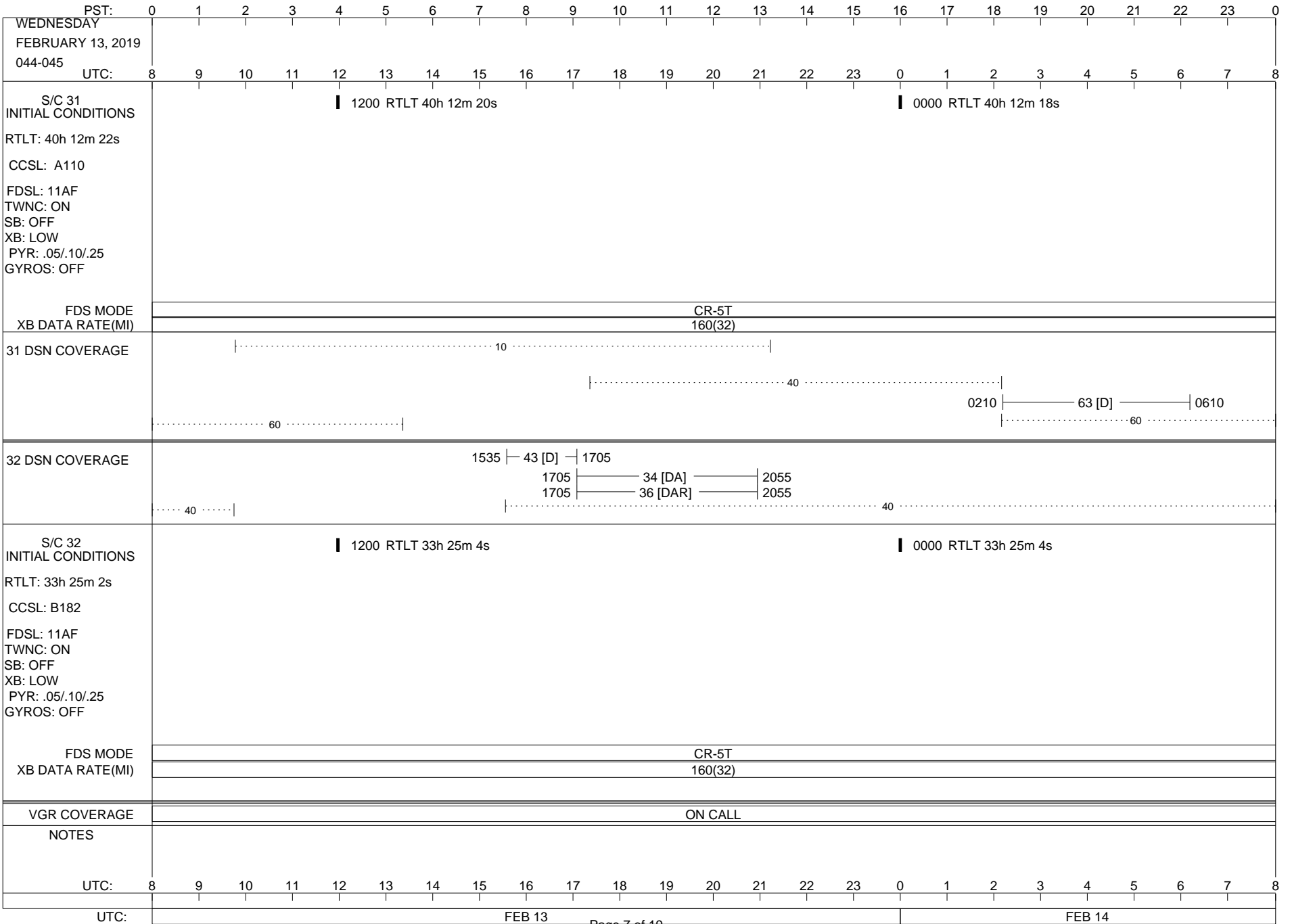
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S/C 31 INITIAL CONDITIONS RTL: 40h 12m 28s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 12m 26s														0000 RTLT 40h 12m 26s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	0955  -----  14 [T]  -----  1355 ..... -----  10 ..... -----  40 ..... -----  ..... -----  60 ..... -----  0220  -----  63 [D]  -----  0620 ..... -----  60 ..... -----																											
32 DSN COVERAGE	..... -----  40 ..... -----  1705  -----  43 [D]  -----  1930 ..... -----  40 ..... -----  0235  -----  43 [o3]  -----																											
S/C 32 INITIAL CONDITIONS RTL: 33h 25m 0s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 2s														0000 RTLT 33h 25m 2s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														EL-40 40(30)				CR-5T 160(32)									
0327 *    0331 B183 CHKSUM 0402 *    0409 CCSTIM FINE 0421    0424 COARSE 0259 * ↓ 0430 * ↓																												
VGR COVERAGE	ON CALL	VGR	ON CALL	VGR	ON CALL														VGR	ON CALL								
NOTES	[1] S/C 32=EL-40 @ 0259 XB=40(30) [2] S/C 32=CR-5T @ 0430 XB=160(32) [3] S/C 32 B183 BACKUP U/L TRACK																											
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: 02/06/19 07:26



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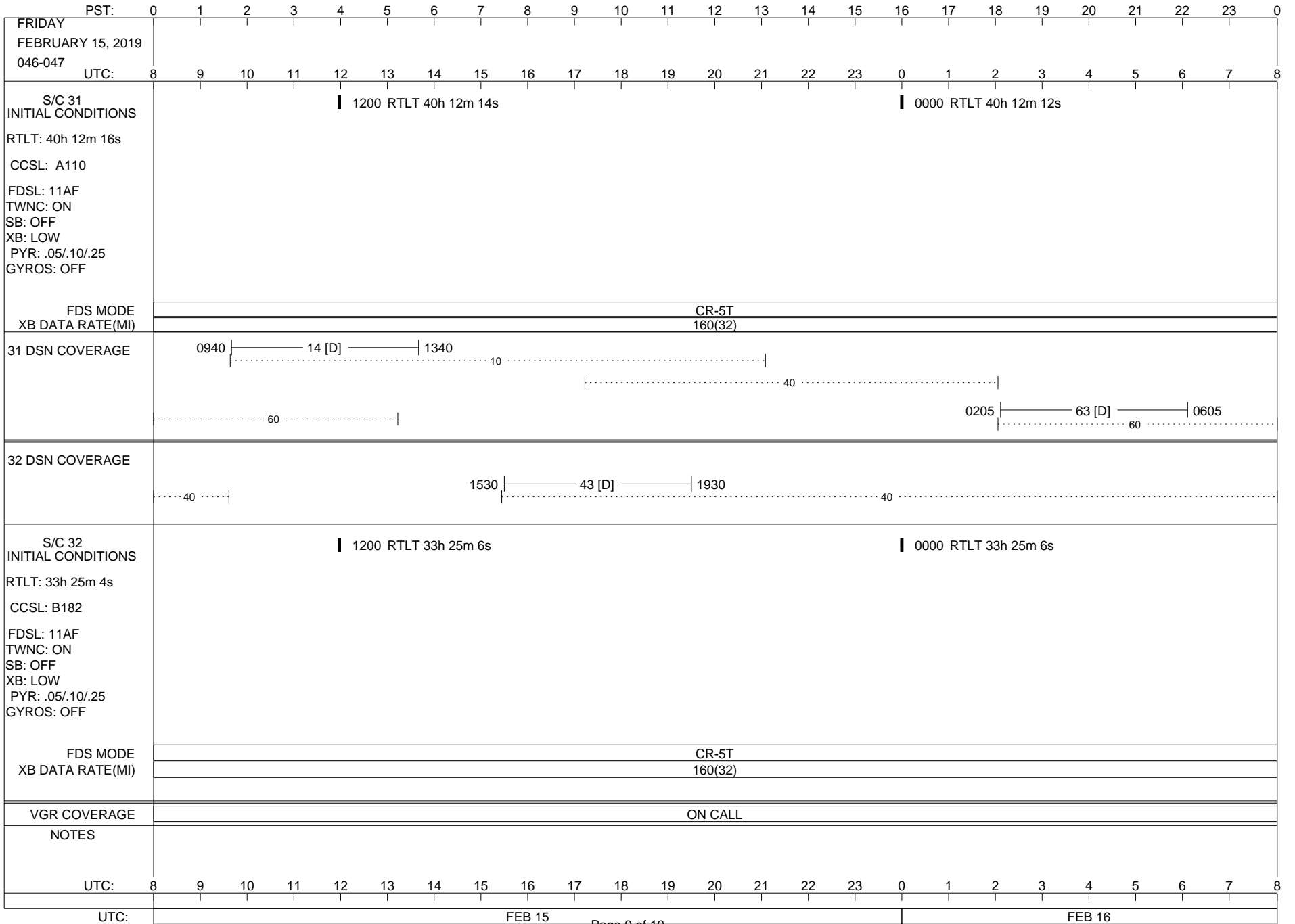




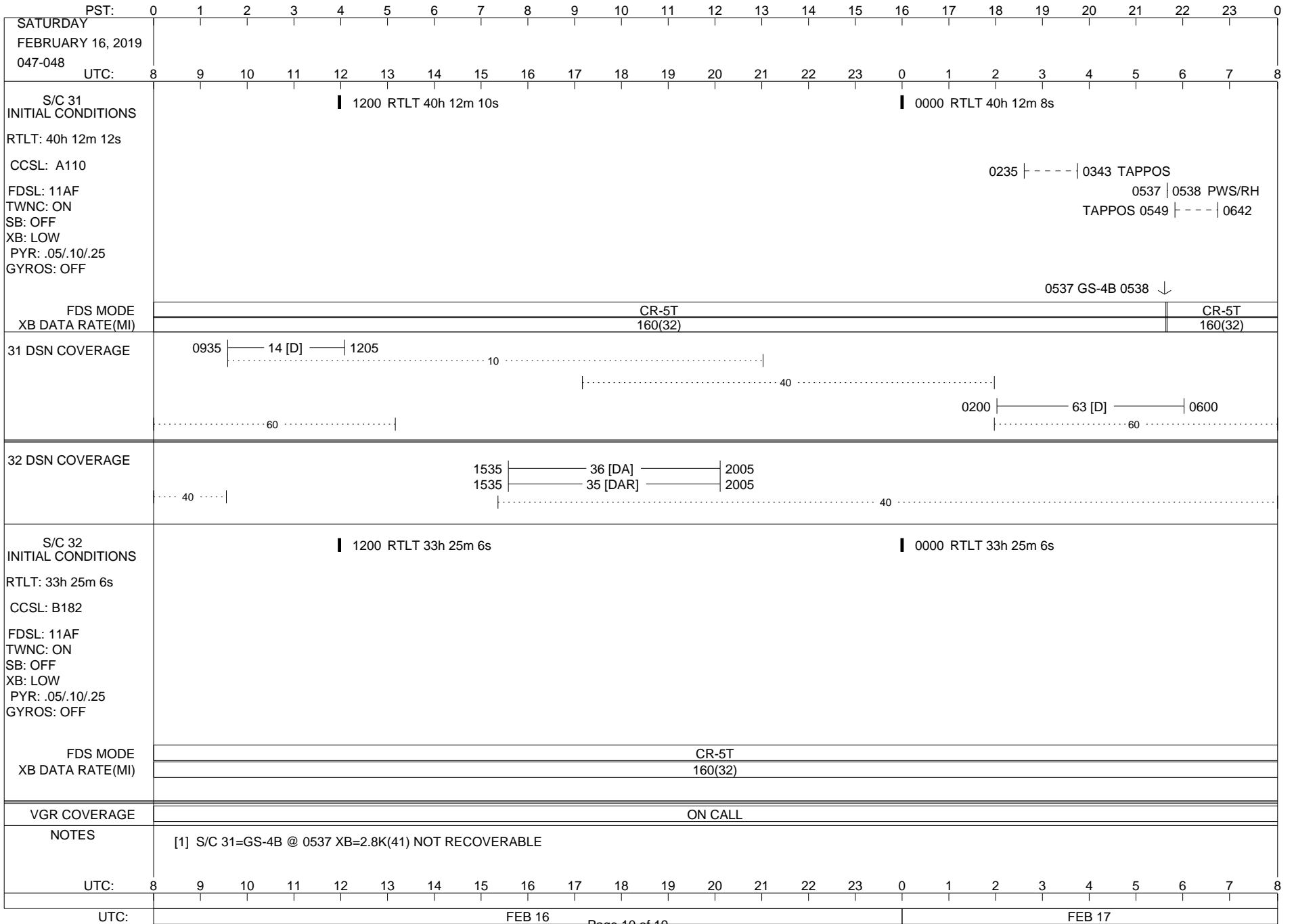
ISSUE DATE: 02/06/19 07:26

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THURSDAY FEBRUARY 14, 2019 045-046					
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: 40h 12m 18s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 40h 12m 16s</p> <p>0000 RTLTL 40h 12m 16s</p> <p>2335   TAPPOS   0057</p> <p>0237    0238 PWS/RH</p> <p>0249   - - - -   0356 TAPPOS</p> <p>1227   - -   1259 SHUNT POWER TEST</p> <p>↓ 0237 GS-4B 0238</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> <td>160(32)</td> </tr> </table>	CR-5T	CR-5T	160(32)	160(32)
CR-5T	CR-5T				
160(32)	160(32)				
31 DSN COVERAGE	<p>1150   25 [DA]   1315</p> <p>1150   26 [DAR]   1315</p> <p>..... 10 .....</p> <p>..... 40 .....</p> <p>..... 60 .....</p>				
32 DSN COVERAGE	<p>1530   43 [D]   1930</p> <p>..... 40 .....</p> <p>..... 40 .....</p>				
S/C 32 INITIAL CONDITIONS RTLTL: 33h 25m 4s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 33h 25m 4s</p> <p>0000 RTLTL 33h 25m 4s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>CR-5T</td> </tr> <tr> <td>160(32)</td> </tr> </table>	CR-5T	160(32)		
CR-5T					
160(32)					
VGR COVERAGE	ON CALL				
NOTES	[1] S/C 31=GS-4B @ 0237 XB=2.8K(41) NOT RECOVERABLE				
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UTC: FEB 14 FEB 15					

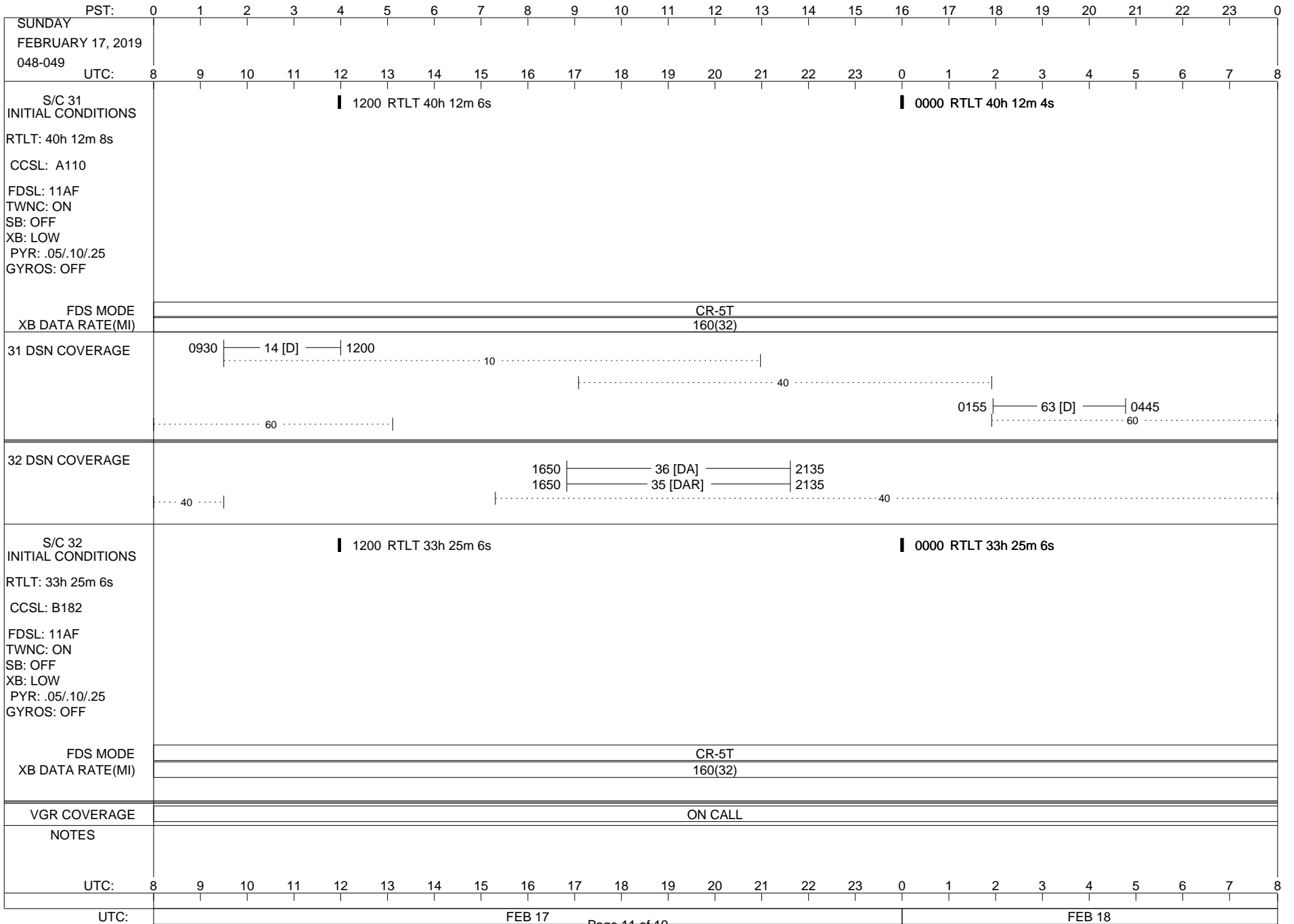
ISSUE DATE: 02/06/19 07:26



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ISSUE DATE: 02/06/19 07:26



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 18, 2019  
049-050  
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: 40h 12m 4s  
CCSL: A110  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 40h 12m 2s 0000 RTLTL 40h 12m 0s

▼ 1030 DUMMY (02:42)

U/L 1055 | - | - - - - - TLC (SHORT-FORM) - - - - -

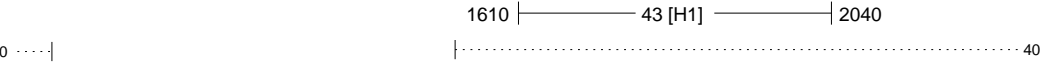
FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 33h 25m 6s  
CCSL: B182  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 33h 25m 6s 0000 RTLTL 33h 25m 6s

▼ 1710 DUMMY (02:35)

▼ 1722 FDS FULMRO (02:47)

↓ 0214 BEGIN SEQUENCE B183

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

ON CALL VGR ON CALL VGR ON CALL

NOTES

JPL HOLIDAY!

[1] DSS-43 HP TXR DRV ON >= 16:38

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:

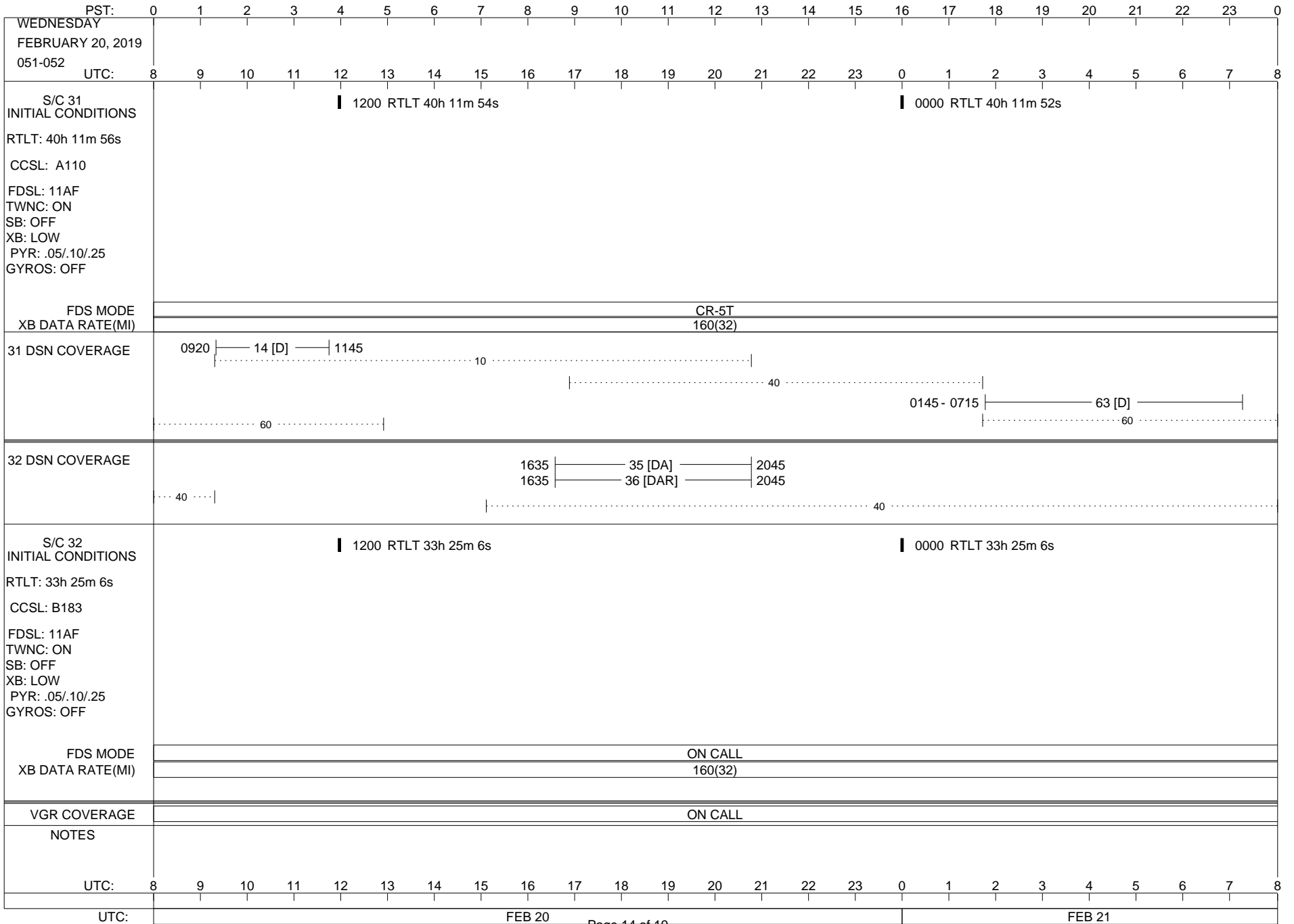
FEB 18

FEB 19

ISSUE DATE: 02/06/19 07:26

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S/C 31 INITIAL CONDITIONS RTLTL: 40h 12m 0s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 58s														0000 RTLT 40h 11m 56s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	0935  ----- 14 [D] -----  1150 ..... ----- 10 -----  ..... ----- 40 -----  ..... ----- 60 -----  0145 - 0715  ----- 63 [D] -----  ..... ----- 60 -----																											
32 DSN COVERAGE	..... 40 .....  1510  ----- 43 [D] -----  1940 ..... ----- 40 -----  0230  ----- 43 [D] -----  0525																											
S/C 32 INITIAL CONDITIONS RTLTL: 33h 25m 6s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 6s														0000 RTLT 33h 25m 6s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														EL-40 40(30)				ON CALL 160(32)									
VGR COVERAGE	ON CALL														VGR				ON CALL									
NOTES	[1] S/C 31=GS-4B @ 2000 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=EL-40 @ 0248 XB=40(30) [3] S/C 32=CR-5T @ 0516 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 19														FEB 20													

ISSUE DATE: 02/06/19 07:26



ISSUE DATE: 02/06/19 07:26

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
THURSDAY FEBRUARY 21, 2019 052-053																									
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: 40h 11m 52s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 50s												0000 RTLT 40h 11m 48s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0915  ----- 14 [D] -----  1335 ..... 10 ..... ..... 40 ..... ..... 60 ..... 0140  ----- 63 [D] -----  0545 ..... 60 .....																								
32 DSN COVERAGE	1630  ----- 34 [DA] -----  2045 1630  ----- 36 [DAR] -----  2045 .... 40 .... ..... 40 .....																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 6s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 6s												0000 RTLT 33h 25m 4s												
FDS MODE	ON CALL																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0212 XB=2.8K(41) NOT RECOVERABLE																								
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 21												FEB 22												



ISSUE DATE: 02/06/19 07:26

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
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S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 48s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 46s												█ 0000 RTLT 40h 11m 44s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	0910  ----- 14 [D] -----  1140 ..... 10 ..... ..... 40 ..... ..... 60 ..... ..... 60 .....												0355   65 [DA]   0540 0355   55 [DAR]   0540 ..... 60 .....												
32 DSN COVERAGE	..... 40 ...												1515  ----- 43 [o] -----  1915 ..... 40 .....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 4s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 25m 4s												█ 0000 RTLT 33h 25m 4s												
FDS MODE													ON CALL												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
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 22												FEB 23												

ISSUE DATE: 02/06/19 07:26

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
SATURDAY FEBRUARY 23, 2019 054-055	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: 40h 11m 44s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 42s												0000 RTLT 40h 11m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0910  ----- 14 [D] -----  1315  ----- 10 -----   ----- 40 -----   ----- 60 -----												0130  ----- 63 [D] -----  0420  ----- 60 -----												
32 DSN COVERAGE	1455  ----- 43 [D] -----  1855  ----- 40 -----												0205 - 0735  ----- 43 [D] -----   ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 4s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 25m 4s												0000 RTLT 33h 25m 4s												
FDS MODE	ON CALL												ON CALL												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0512 XB=2.8K(41) NOT RECOVERABLE																								
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 23												FEB 24												

ISSUE DATE: 02/06/19 07:26

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S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 40s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 38s												█ 0000 RTLT 40h 11m 36s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	0905  ----- 14 [D] -----  1305  ----- 10 -----   ----- 40 -----   ----- 60 -----												0130  ----- 63 [D] -----  0645  ----- 60 -----												
32 DSN COVERAGE	----- 40 -----												1455  ----- 43 [D] -----  1855  ----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 4s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 33h 25m 2s												█ 0000 RTLT 33h 25m 2s												
FDS MODE													ON CALL												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
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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ISSUE DATE: 02/06/19 07:26

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S/C 31 INITIAL CONDITIONS RTLT: 40h 11m 36s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 40h 11m 34s</p> </div>																								
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>0900   14 [D]   1130 .....10..... .....60.....</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>1450   43 [D]   1935 ...40... </p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 25m 2s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 33h 25m 2s</p> </div>																								
FDS MODE													ON CALL												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES																									
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UTC:	FEB 25												FEB 26												