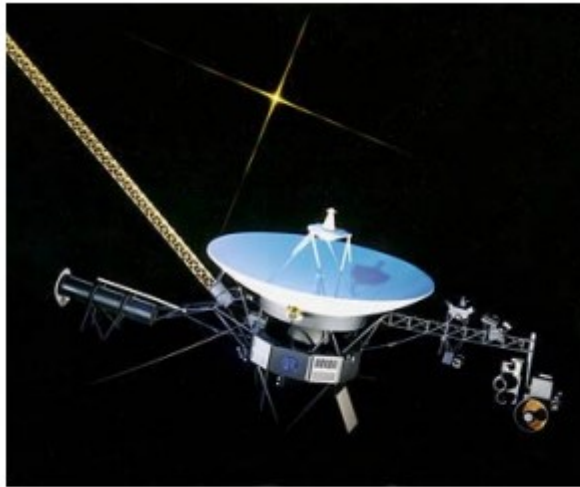


VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: January 29, 2020

For the Period: 01/30/20 to 02/16/20 (20/030 – 20/047)



Posted at <https://voyager.jpl.nasa.gov/mission/status/>

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

02/27/19

ISSUE DATE: 02/05/20 10:54

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																												
JANUARY 30, 2020																												
030-031																												
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 41h 12m 20s											0000 RTLT 41h 12m 18s															
RTLT: 41h 12m 20s																												
CCSL: A114																												
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)															
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS		1200 RTLT 34h 17m 10s											0000 RTLT 34h 17m 12s															
RTLT: 34h 17m 8s																												
CCSL: B186																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/10/25																												
GYROS: OFF																												
FDS MODE		EL-40											EL-40															
XB DATA RATE(MI)		40(30)											40(30)															
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:		JAN 30											JAN 31															

ISSUE DATE: 02/05/20 10:54

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FRIDAY JANUARY 31, 2020 031-032																													
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 41h 12m 18s														0000 RTLT 41h 12m 16s													
RTLT: 41h 12m 18s																↓ 1503 GYROS BC ON ↓ 1503 BAY 1 HTR OFF ↓ 1503 GYRO INIT ↓ 1513 GYRO FAULT TEST ↓ 1533 AAI 1536 - - 1609 1-REV MAGROL ↓ 1615 RAI ↓ 1621 GYROS OFF ↓ 1630 BAY 1 HTR ON ↓ 1506 EL-40 1507													
CCSL: A114																													
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)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS		1200 RTLT 34h 17m 14s														0000 RTLT 34h 17m 16s													
RTLT: 34h 17m 12s																													
CCSL: B186																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE		EL-40																											
XB DATA RATE(MI)		40(30)																											
VGR COVERAGE		ON CALL							VGR							ON CALL													
NOTES		HP DRV OFF <= 09:10																											
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:		JAN 31														FEB 01													

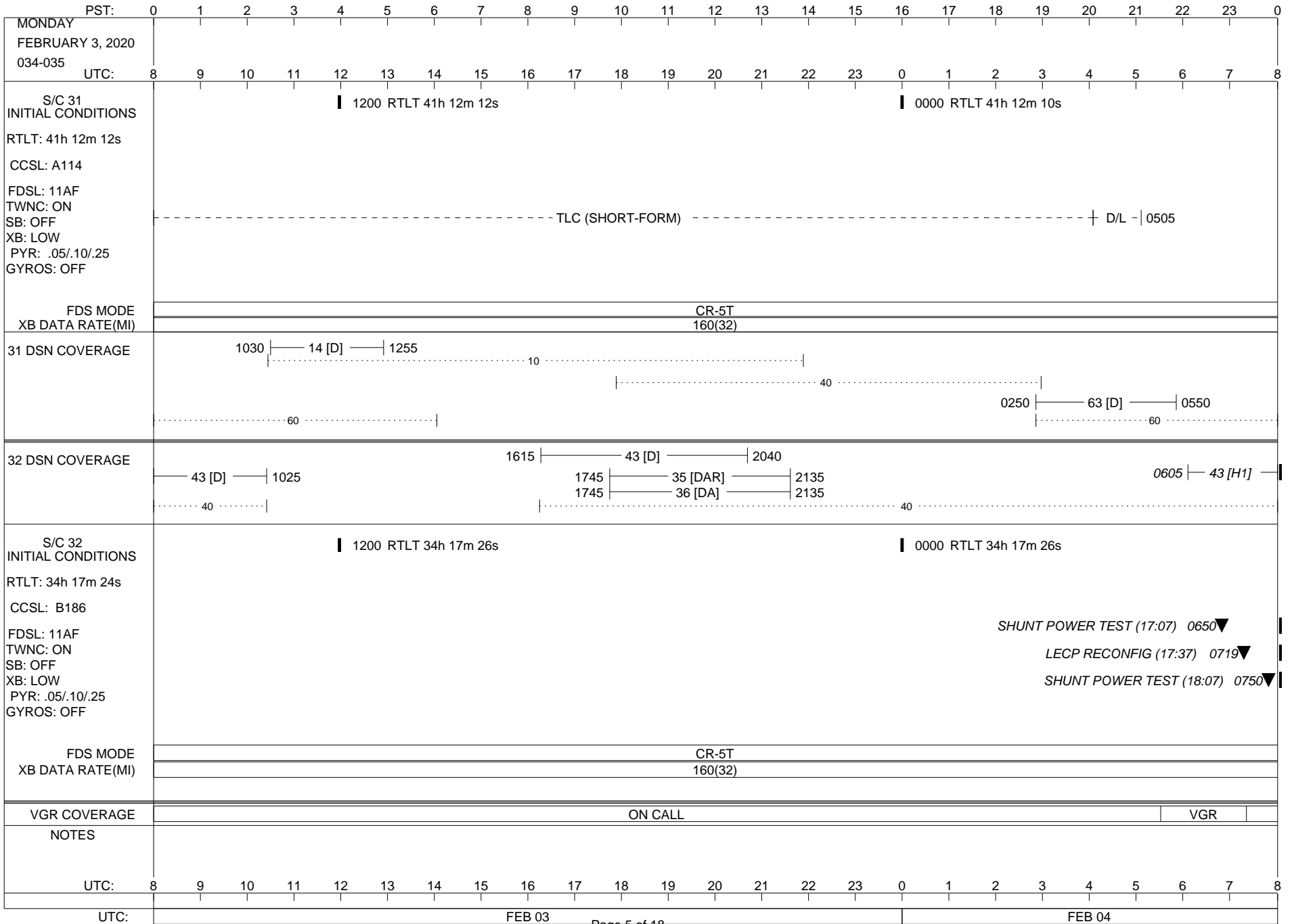
ISSUE DATE: 02/05/20 10:54

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SATURDAY FEBRUARY 1, 2020 032-033																													
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S/C 31 INITIAL CONDITIONS RTLT: 41h 12m 16s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 41h 12m 16s												0000 RTLT 41h 12m 14s															
FDS MODE		CR-5T												CR-5T															
XB DATA RATE(MI)		160(32)												160(32)															
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 16s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 34h 17m 18s												0000 RTLT 34h 17m 20s															
FDS MODE		EL-40												EL-40															
XB DATA RATE(MI)		40(30)												40(30)															
VGR COVERAGE		VGR ON CALL																											
NOTES		[1] DSS-43 HP DRV OFF <= 09:10																											
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 01												FEB 02															

ISSUE DATE: 02/05/20 10:54

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	
SUNDAY FEBRUARY 2, 2020 033-034	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: 41h 12m 14s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 41h 12m 14s		0000 RTLTL 41h 12m 12s																							
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
31 DSN COVERAGE	<p>0935 -----63 [T]----- 1320</p> <p>0255 -----63 [D]----- 0655</p>																									
32 DSN COVERAGE	<p>1640 -----43 [D]----- </p>																									
S/C 32 INITIAL CONDITIONS RTLTL: 34h 17m 20s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 34h 17m 22s		0000 RTLTL 34h 17m 24s																							
FDS MODE XB DATA RATE(MI)	EL-40 40(30)							EL-40 40(30)							CR-5T 160(32)											
VGR COVERAGE	VGR	ON CALL											VGR	ON CALL												
NOTES	[1] S/C 32=CR-5T @ 0142 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: 02/05/20 10:54



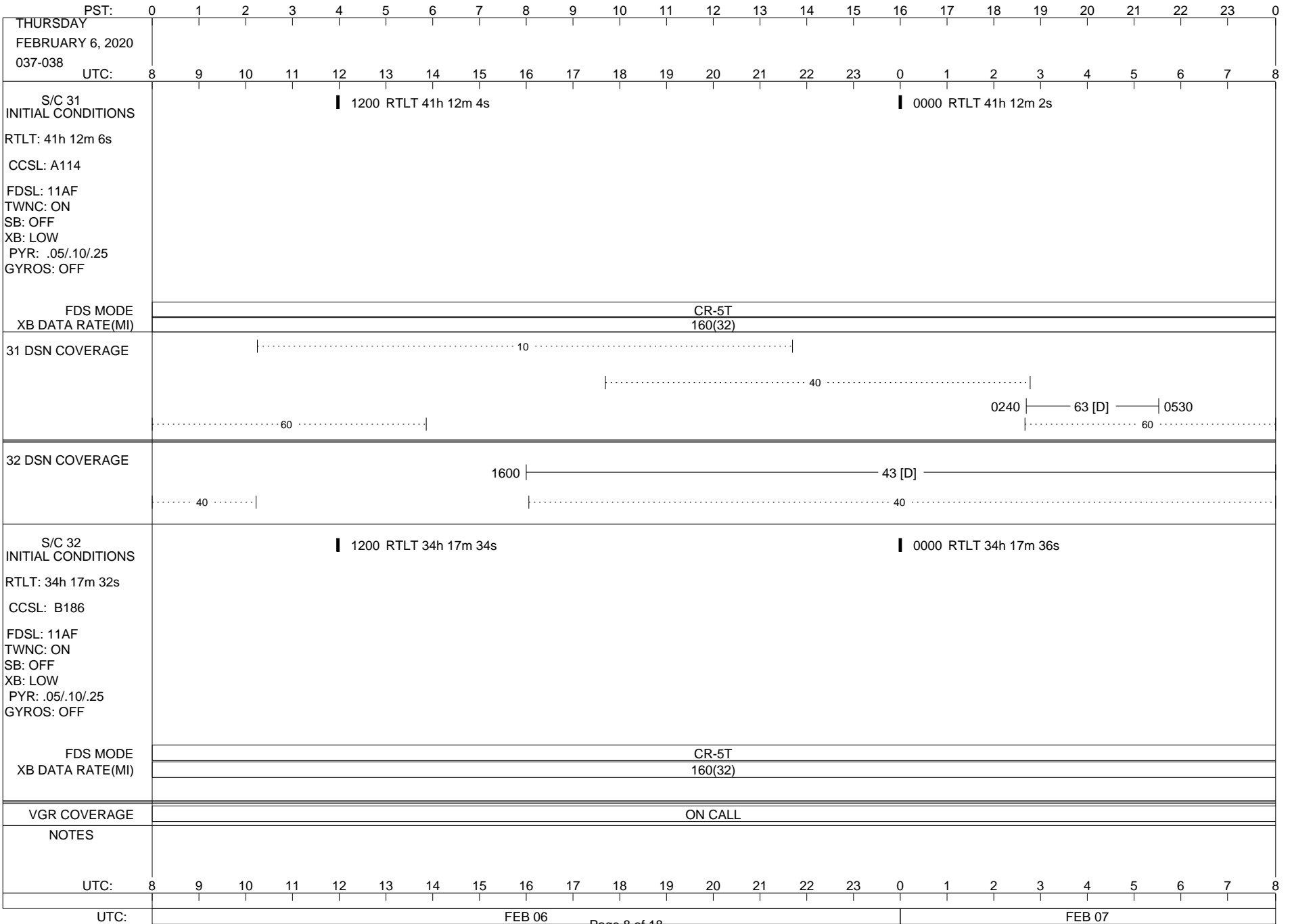
ISSUE DATE: 02/05/20 10:54

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 4, 2020																													
035-036																													
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 41h 12m 8s													█ 0000 RTLT 41h 12m 8s														
RTLT: 41h 12m 10s																													
CCSL: A114																													
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)														
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS		█ 1200 RTLT 34h 17m 28s													█ 0000 RTLT 34h 17m 30s														
RTLT: 34h 17m 26s																													
CCSL: B186																													
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		ON CALL																											
NOTES		[1] DSS-43 DRV OFF <= 08:55																											
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 04													FEB 05														

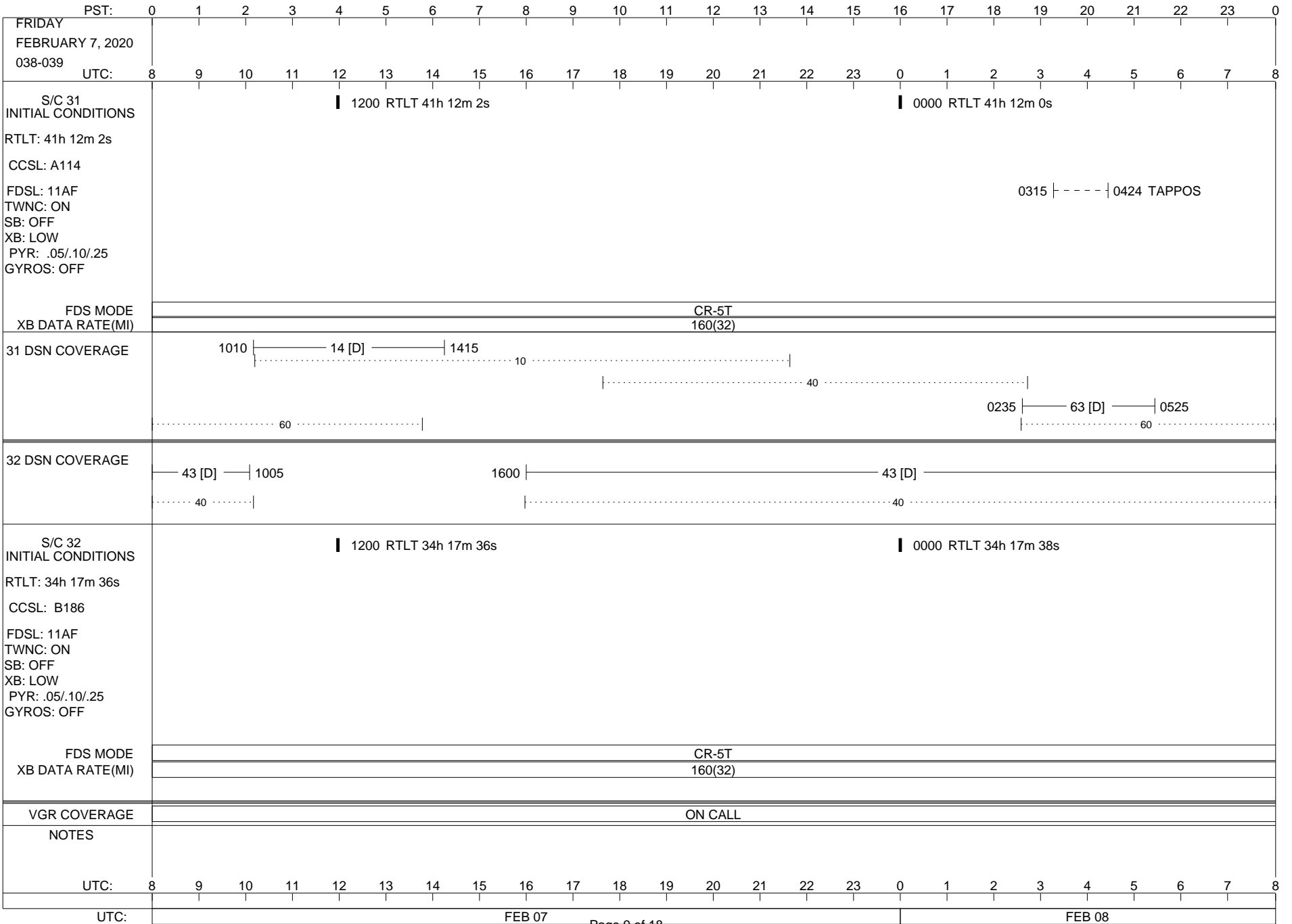
ISSUE DATE: 02/05/20 10:54

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			
WEDNESDAY																													
FEBRUARY 5, 2020																													
036-037																													
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 41h 12m 6s														0000 RTLT 41h 12m 6s													
RTLT: 41h 12m 8s																													
CCSL: A114																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE		CR-5T																											
XB DATA RATE(MI)		160(32)																											
31 DSN COVERAGE		<p>1020 14 [D] 1205</p> <p>60</p> <p>40</p> <p>0245 - 0715 63 [D] </p> <p>60</p>																											
32 DSN COVERAGE		<p>43 [Ho] 1020</p> <p>40</p> <p>1645 43 [o] 0625</p> <p>40</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 34h 17m 32s														0000 RTLT 34h 17m 32s													
RTLT: 34h 17m 30s																													
CCSL: B186																													
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						
NOTES		[1] S/C 32=CR-5T @ 1829 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 05														FEB 06													

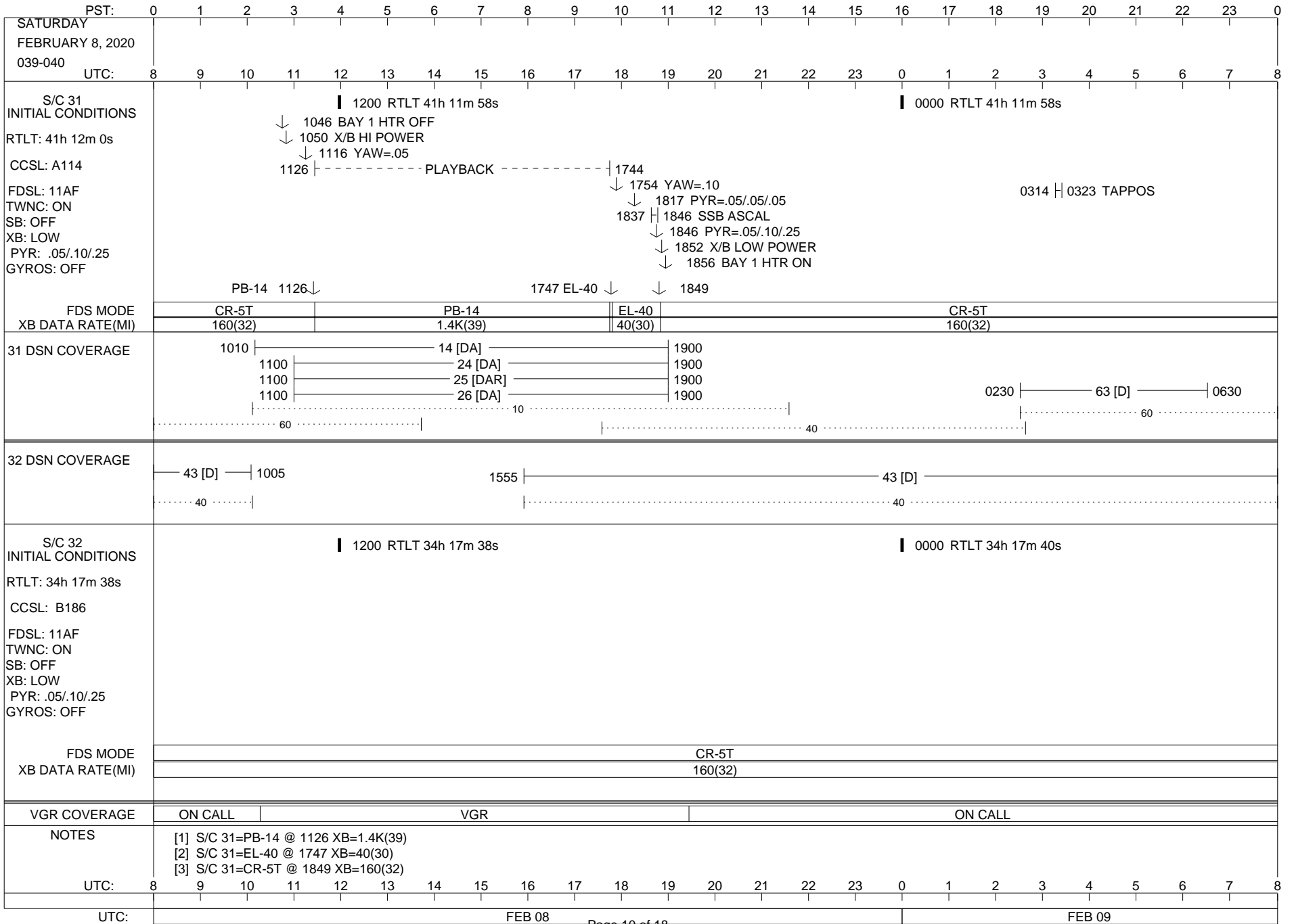
ISSUE DATE: 02/05/20 10:54



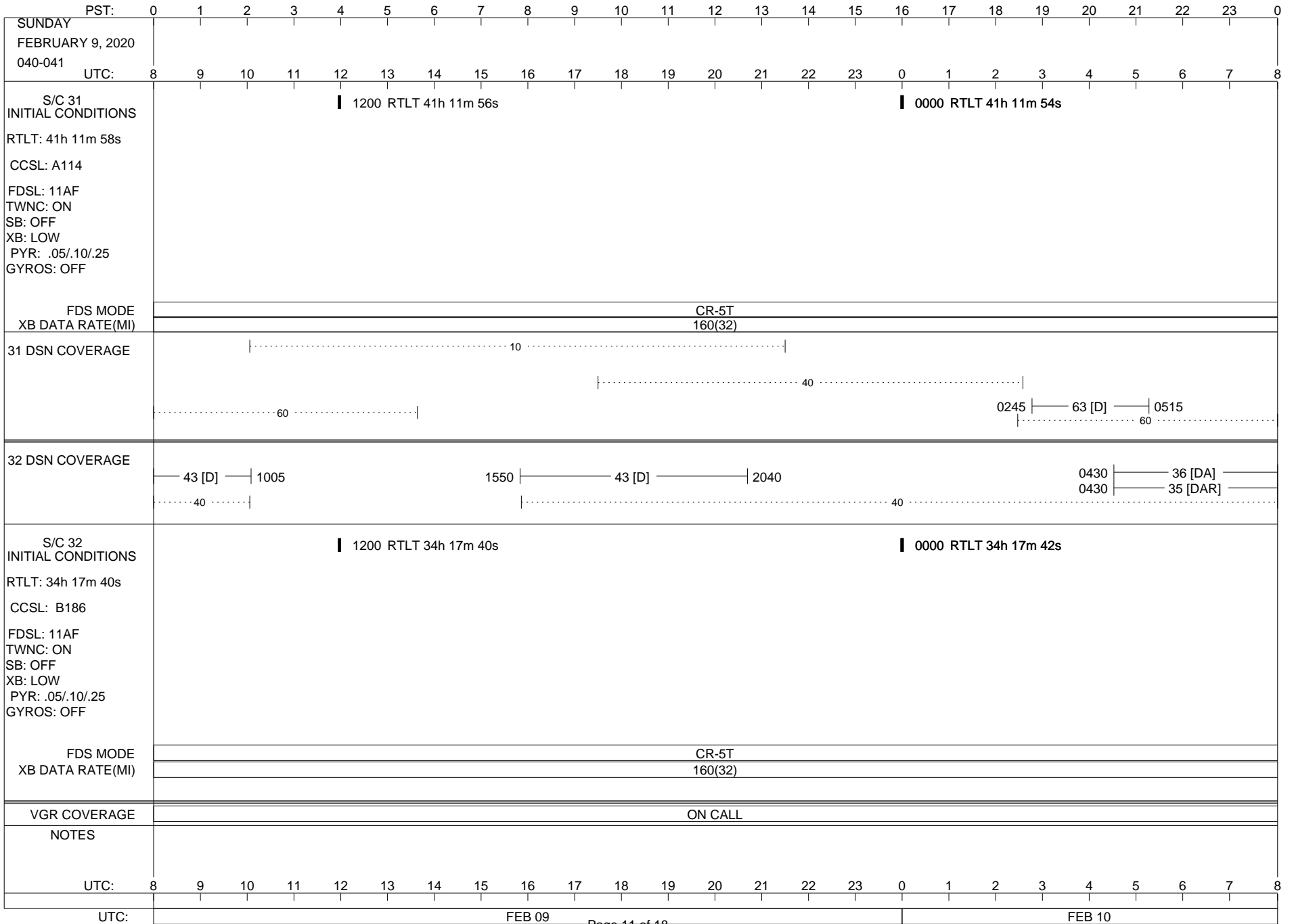
ISSUE DATE: 02/05/20 10:54



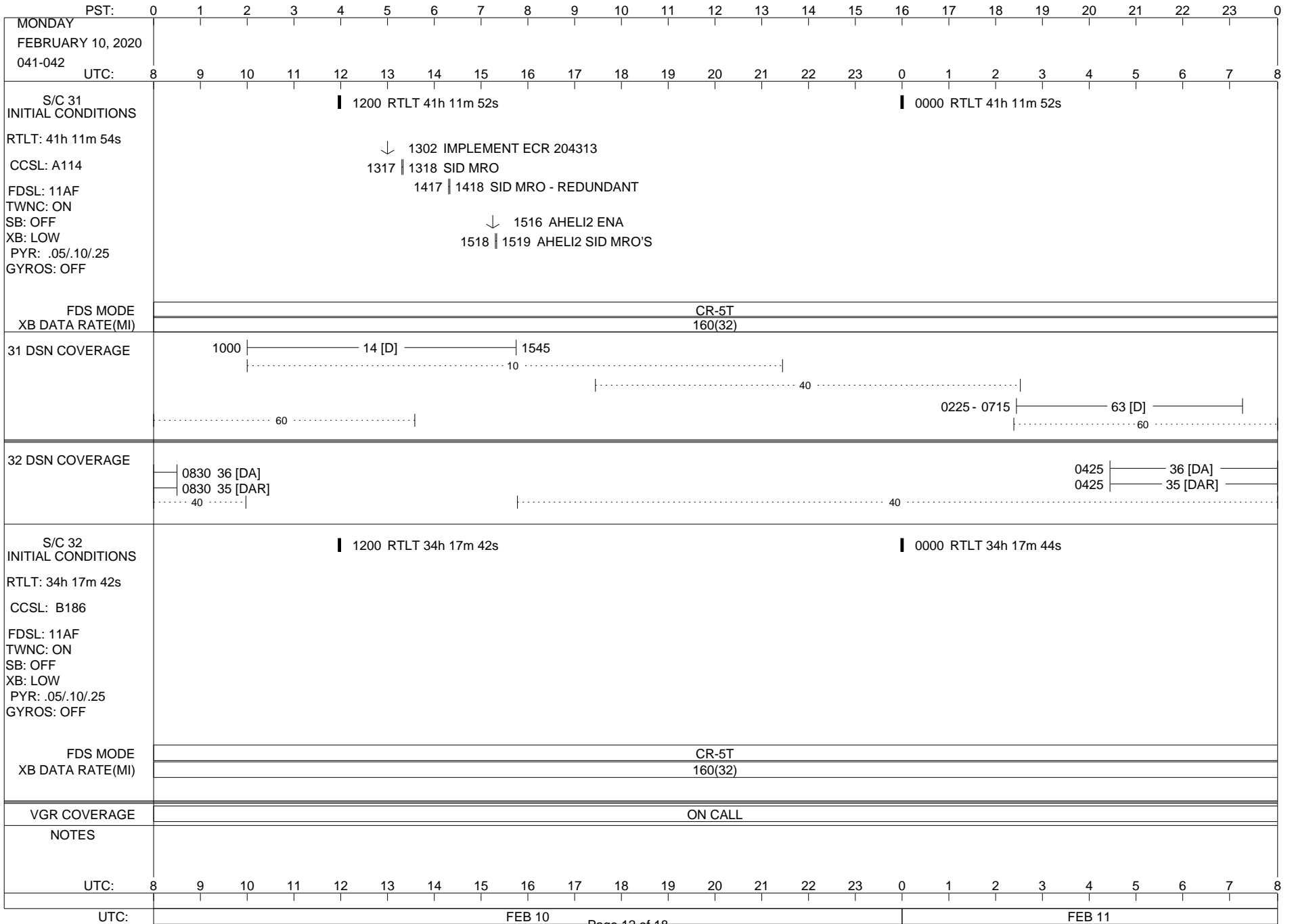
ISSUE DATE: 02/05/20 10:54



ISSUE DATE: 02/05/20 10:54



ISSUE DATE: 02/05/20 10:54



ISSUE DATE: 02/05/20 10:54

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 11, 2020 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 RTL: 41h 11m 52s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 41h 11m 50s █ 0000 RTLT 41h 11m 48s ▼ 1040 DUMMY (03:52) U/L 1105 - - - - - - TLC (SHORT-FORM) - - - - - 2030 2030 PWS/RH ↓ 2030 GS-4B 2030
FDS MODE XB DATA RATE(MI)	CR-5T 160(32) CR-5T 160(32)
31 DSN COVERAGE	1010 - 14 [T] - 1225 10 40 60 0220 - 0715 - 63 [D] - 60
32 DSN COVERAGE	0825 36 [DA] 0615 35 [DA] 0825 35 [DAR] 0615 34 [DAR] 40 40
S/C 32 INITIAL CONDITIONS RTL: 34h 17m 44s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 34h 17m 44s █ 0000 RTLT 34h 17m 44s
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	ON CALL VGR 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 11 FEB 12	

ISSUE DATE: 02/05/20 10:54

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

WEDNESDAY
FEBRUARY 12, 2020
043-044

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
RTL: 41h 11m 48s
CCSL: A114
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

1200 RTLT 41h 11m 46s

0000 RTLT 41h 11m 44s

TLC (SHORT-FORM)

D/L - 0545

0257 - 0315 SHUNT POWER TEST

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE

0950 |----- 14 [D] -----| 1220

10

|----- 40 -----|

0215 - 0745

|----- 63 [D] -----|

60

60

32 DSN COVERAGE

| 0820 35 [DA]
| 0820 34 [DAR]

1710 |----- 35 [DAR] -----| 2310
1710 |----- 34 [DA] -----| 2310

40

40

S/C 32
INITIAL CONDITIONS

1200 RTLT 34h 17m 46s

0000 RTLT 34h 17m 46s

RTL: 34h 17m 44s
CCSL: B186
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)

CR-5T
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

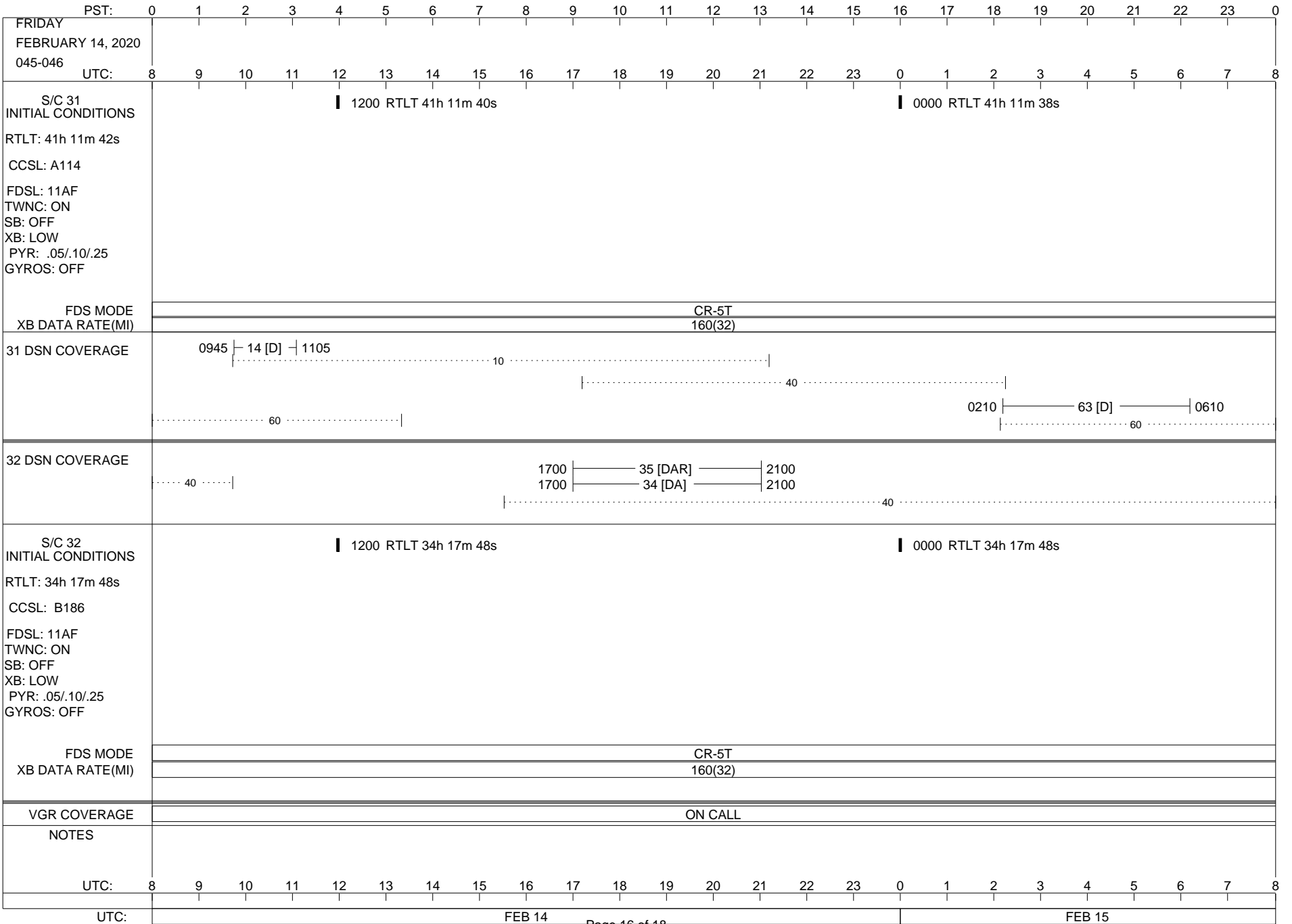
UTC:

FEB 12

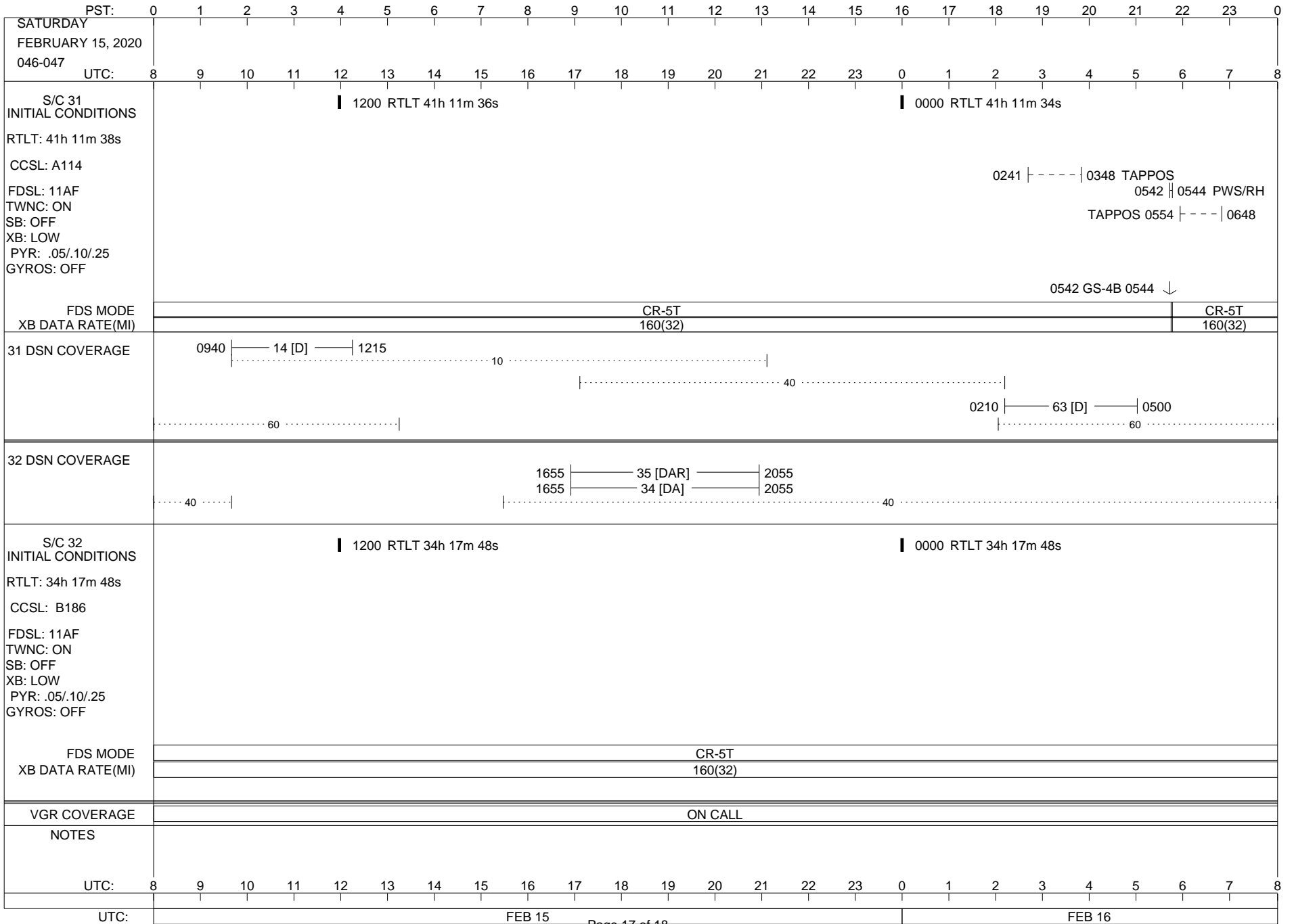
FEB 13

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 13, 2020 044-045																												
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: 41h 11m 44s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 41h 11m 44s														█ 0000 RTLT 41h 11m 42s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE																												
32 DSN COVERAGE																												
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 46s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 34h 17m 46s														█ 0000 RTLT 34h 17m 48s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														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 13														FEB 14													

ISSUE DATE: 02/05/20 10:54



ISSUE DATE: 02/05/20 10:54



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
SUNDAY FEBRUARY 16, 2020 047-048	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: 41h 11m 34s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 41h 11m 32s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>0950 ----- 14 [D] ----- 1235</p> <p>..... 10</p> <p>..... 60</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>..... 40</p> <p>1650 ----- 35 [DAR] ----- 2050</p> <p>1650 ----- 36 [DA] ----- 2050</p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 48s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 34h 17m 50s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 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 16												FEB 17												