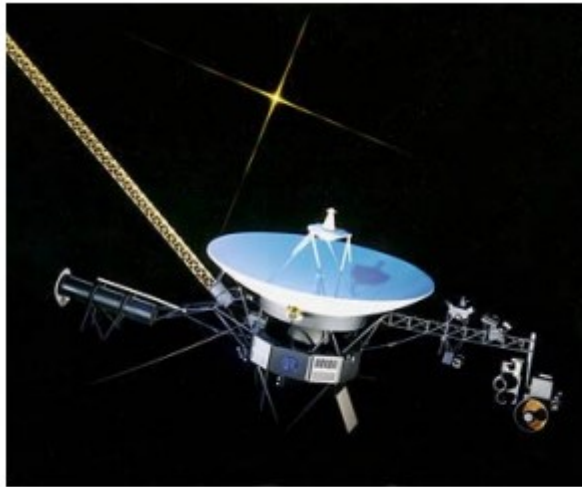


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: February 19, 2020

For the Period: 02/20/20 to 03/08/20 (20/051 – 20/068)



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

**LEGEND:**

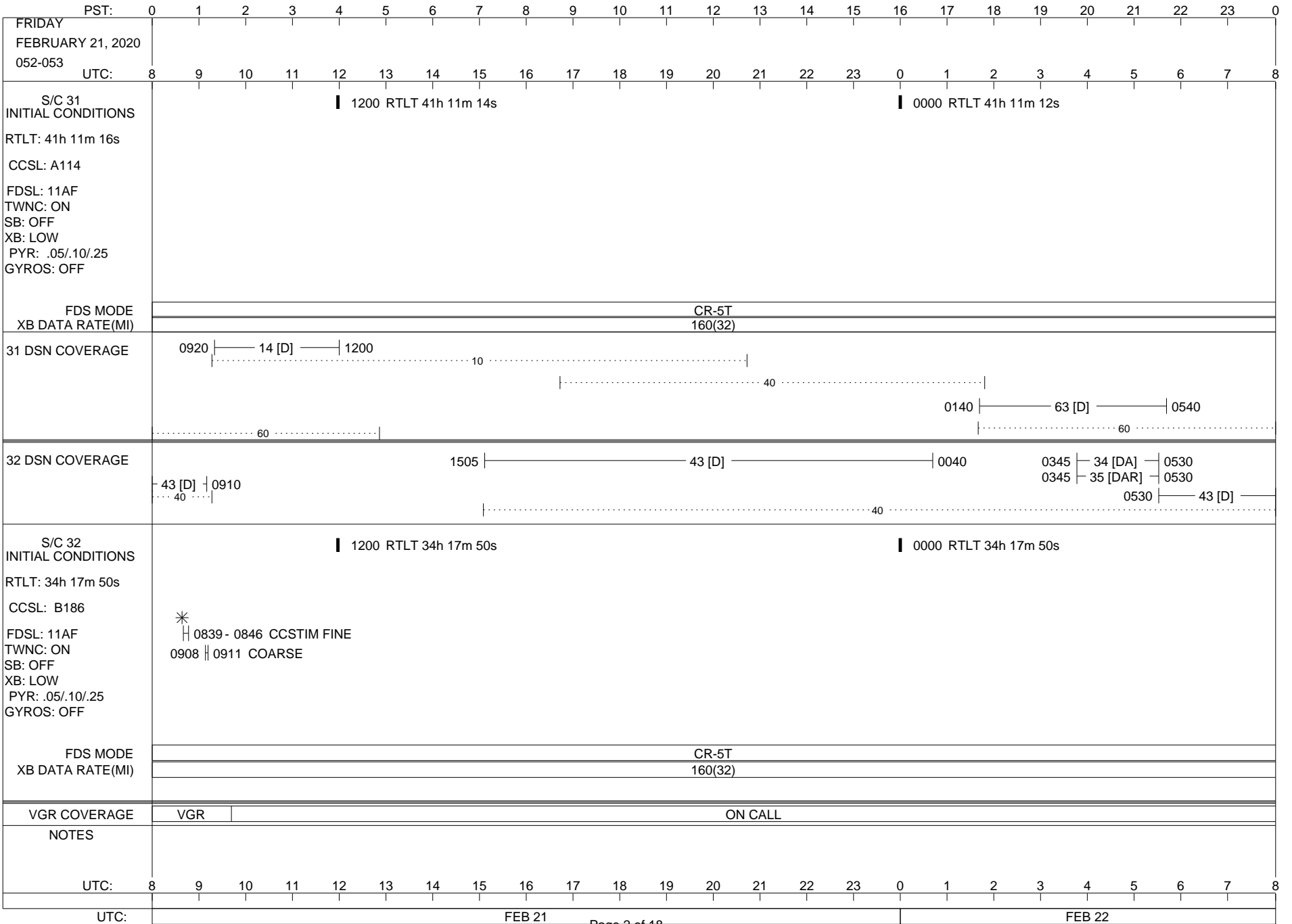
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

02/27/19

ISSUE DATE: 02/19/20 10:33

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 20, 2020 051-052																														
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 11m 20s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 11m 18s												0000 RTLT 41h 11m 16s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
31 DSN COVERAGE	0920  ----- 14 [D] -----  1230 ..... 10 ..... ..... 40 ..... ..... 60 ..... 0145  ----- 63 [D] -----  0435 ..... 60 .....																													
32 DSN COVERAGE	43 [D]   0920 ..... 40 ..... 1510  ----- 43 [D] -----  0040 ..... 40 ..... 0535  ----- 43 [D] -----																													
S/C 32 INITIAL CONDITIONS RTLTL: 34h 17m 50s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 17m 50s												0000 RTLT 34h 17m 50s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
VGR COVERAGE	ON CALL												VGR						ON CALL						VGR					
NOTES	* ↓ 1712 CRS CMD WORD 10 UPD * ↓ 1728 SSB UPD * CCS CLOCK RESET 0619 ↓																													
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 20												Page 1 of 18						FEB 21											

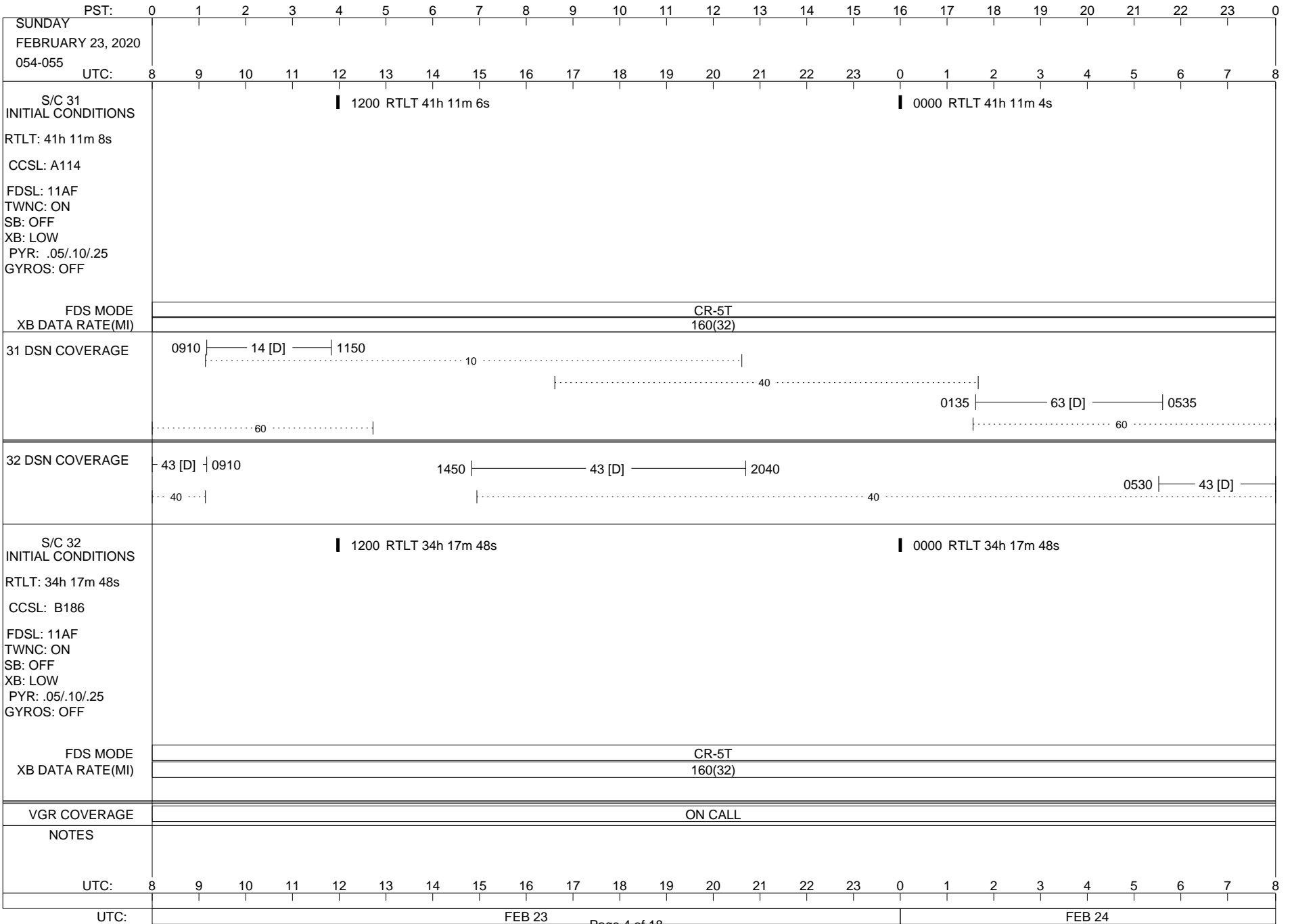
ISSUE DATE: 02/19/20 10:33



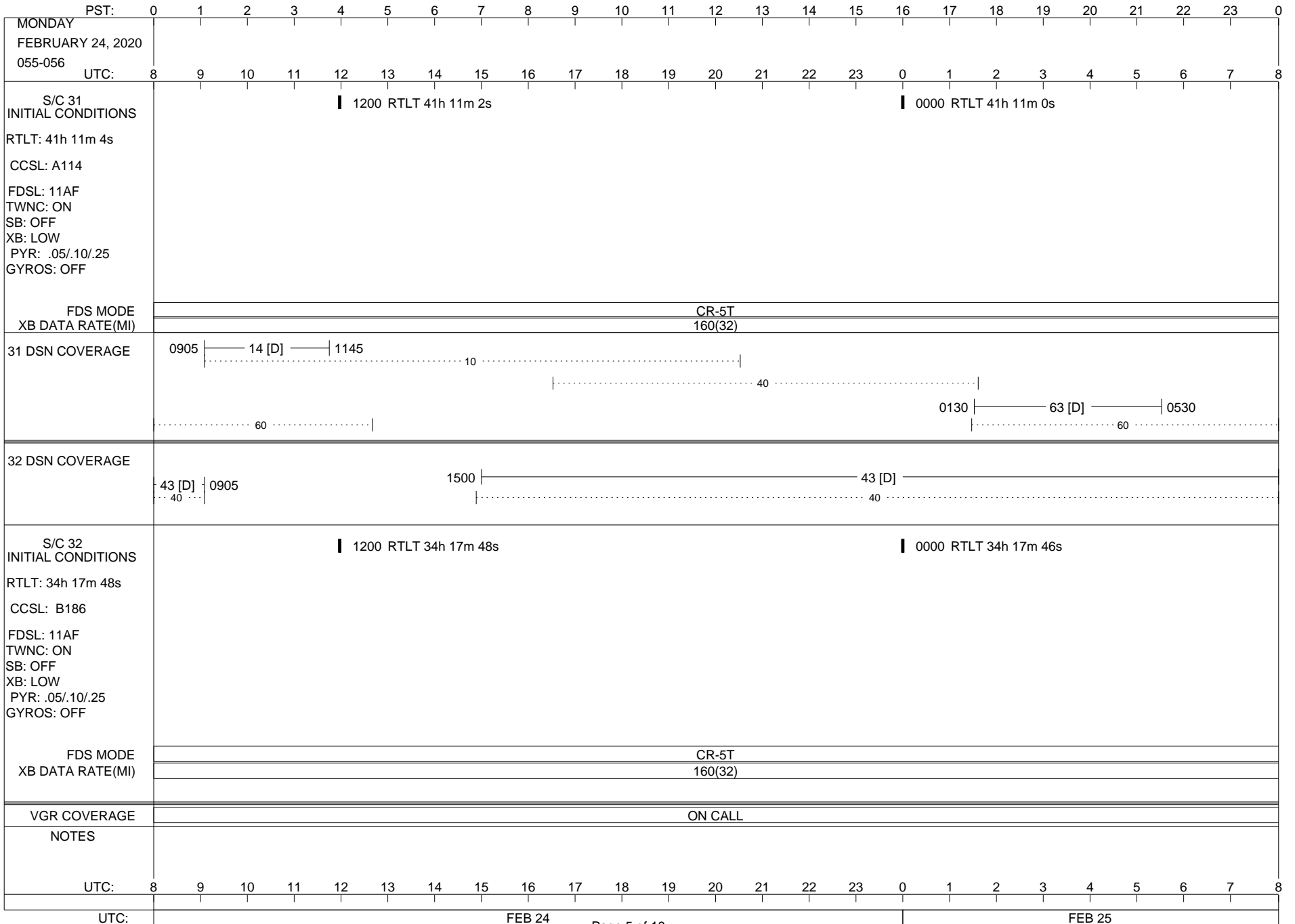
ISSUE DATE: 02/19/20 10:33

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 22, 2020 053-054																									
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 12s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 41h 11m 10s												█ 0000 RTLT 41h 11m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0915  -----  14 [D]  -----  1140  -----  10  -----   -----  40  -----   -----  60  -----												0135  -----  63 [D]  -----  0430  -----  60  -----												
32 DSN COVERAGE	43 [D]  -----  0910  -----  40  -----												2200  -----  43 [D]  -----   -----  40  -----												
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 50s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 34h 17m 48s												█ 0000 RTLT 34h 17m 48s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												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												

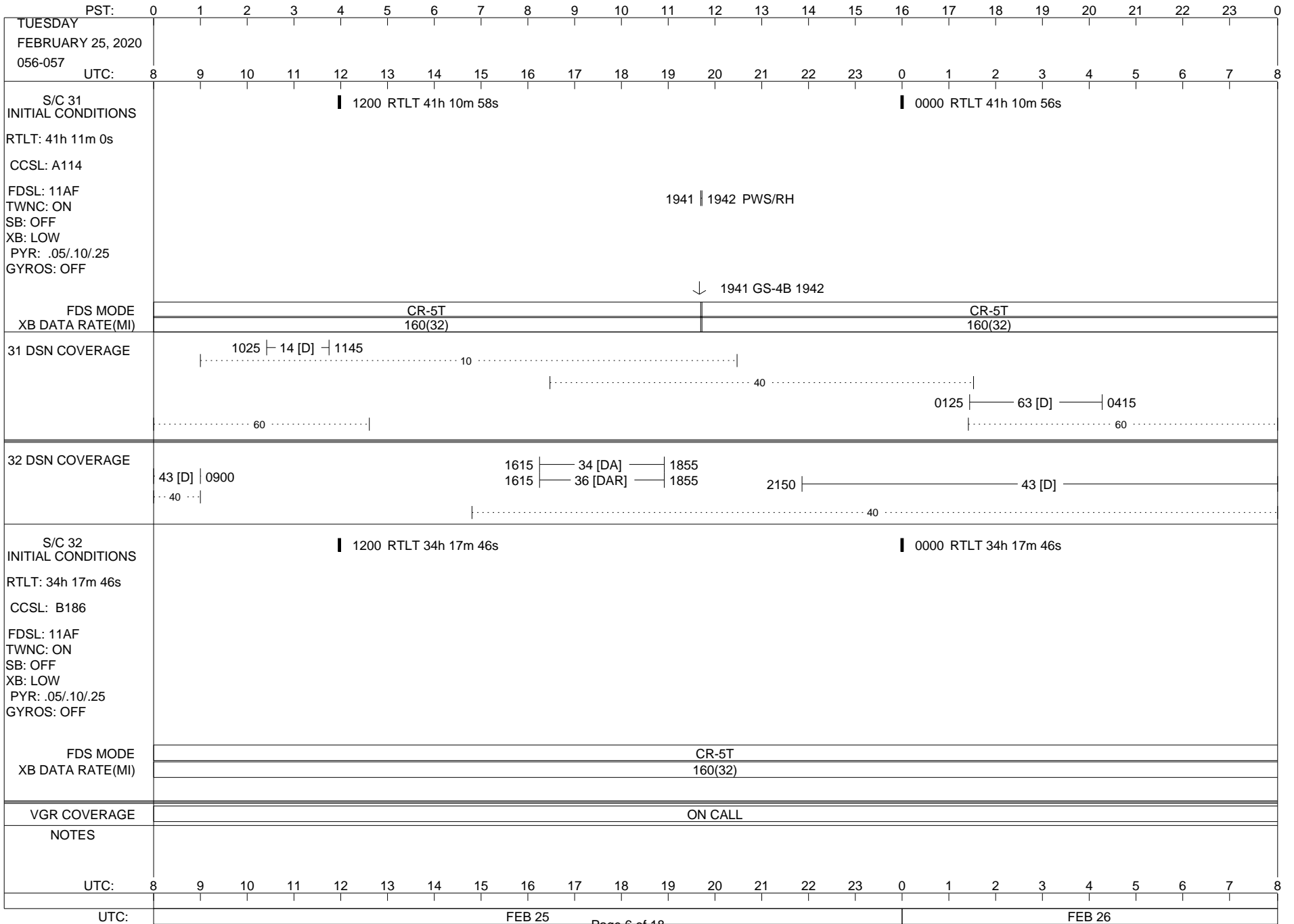
ISSUE DATE: 02/19/20 10:33



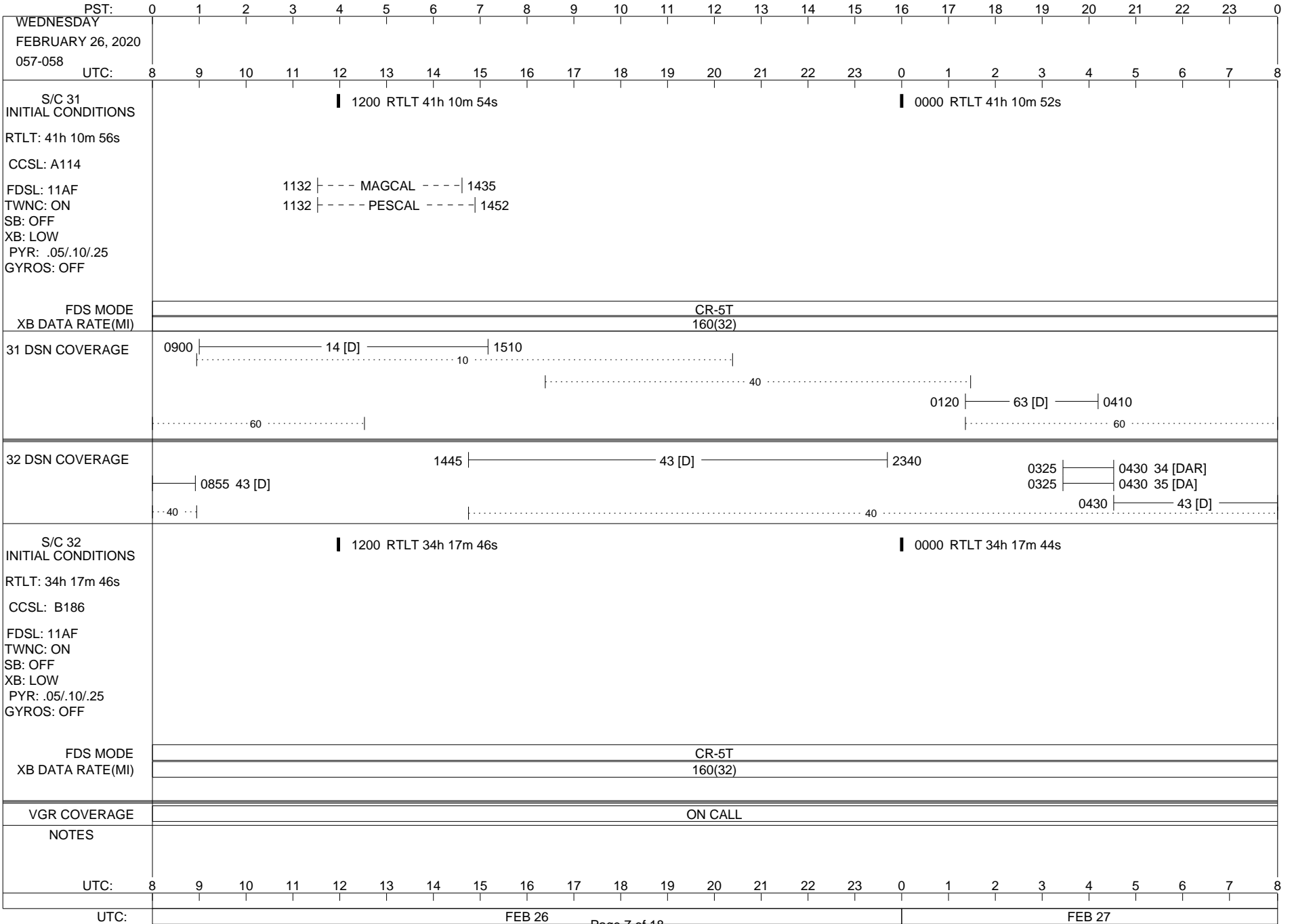
ISSUE DATE: 02/19/20 10:33



ISSUE DATE: 02/19/20 10:33

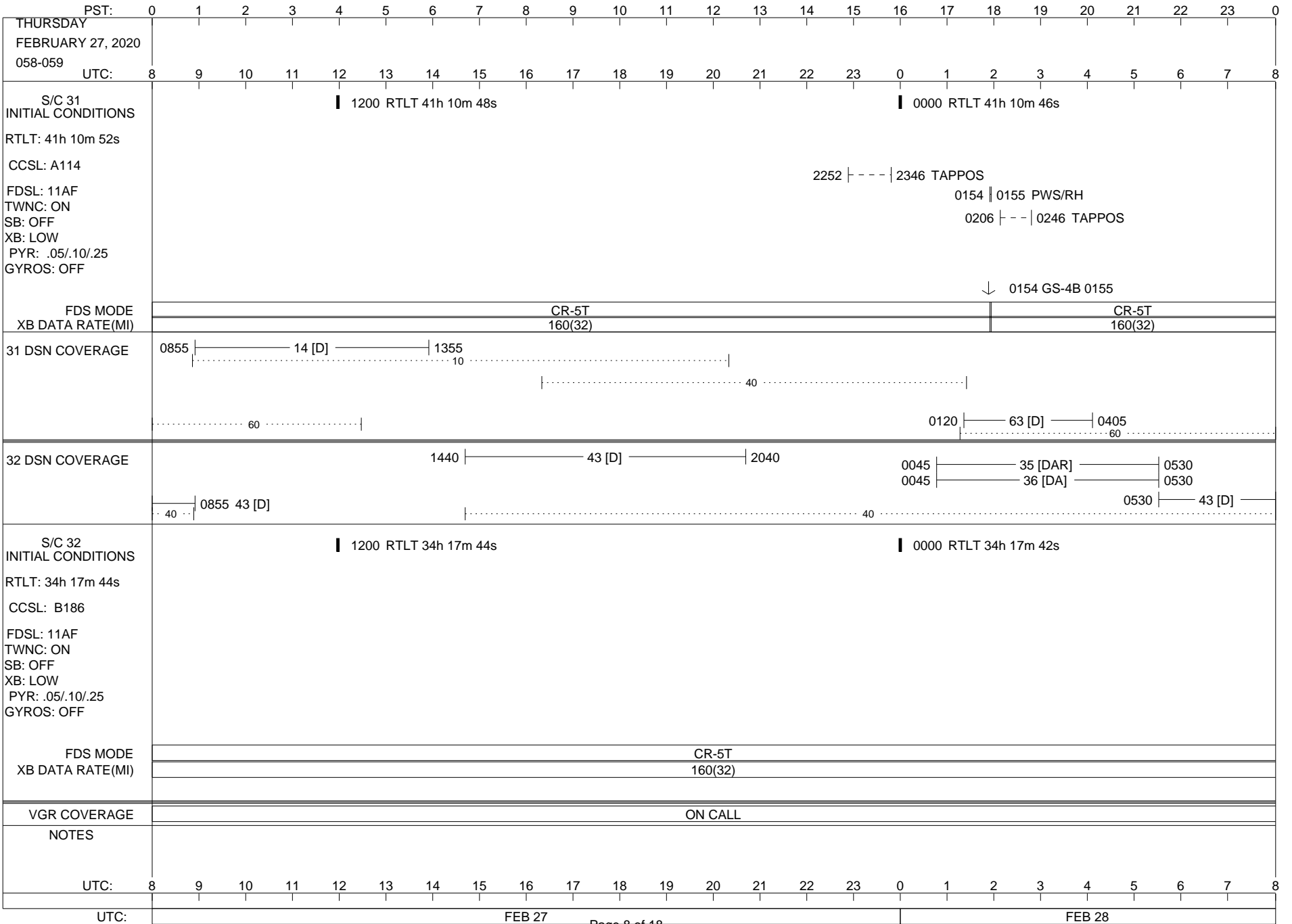


ISSUE DATE: 02/19/20 10:33





ISSUE DATE: 02/19/20 10:33



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

FRIDAY  
FEBRUARY 28, 2020  
059-060

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 10m 46s  
CCSL: A114  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

█ 1200 RTLT 41h 10m 44s

█ 0000 RTLT 41h 10m 42s

▼ 0920 DUMMY (02:31)  
U/L 0945 | - | - - - - - TLC (SHORT-FORM) - - - - -

FDS MODE CR-5T  
XB DATA RATE(MI) 160(32)

31 DSN COVERAGE

32 DSN COVERAGE

S/C 32  
INITIAL CONDITIONS  
RTLT: 34h 17m 42s  
CCSL: B186  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

█ 1200 RTLT 34h 17m 42s

█ 0000 RTLT 34h 17m 42s

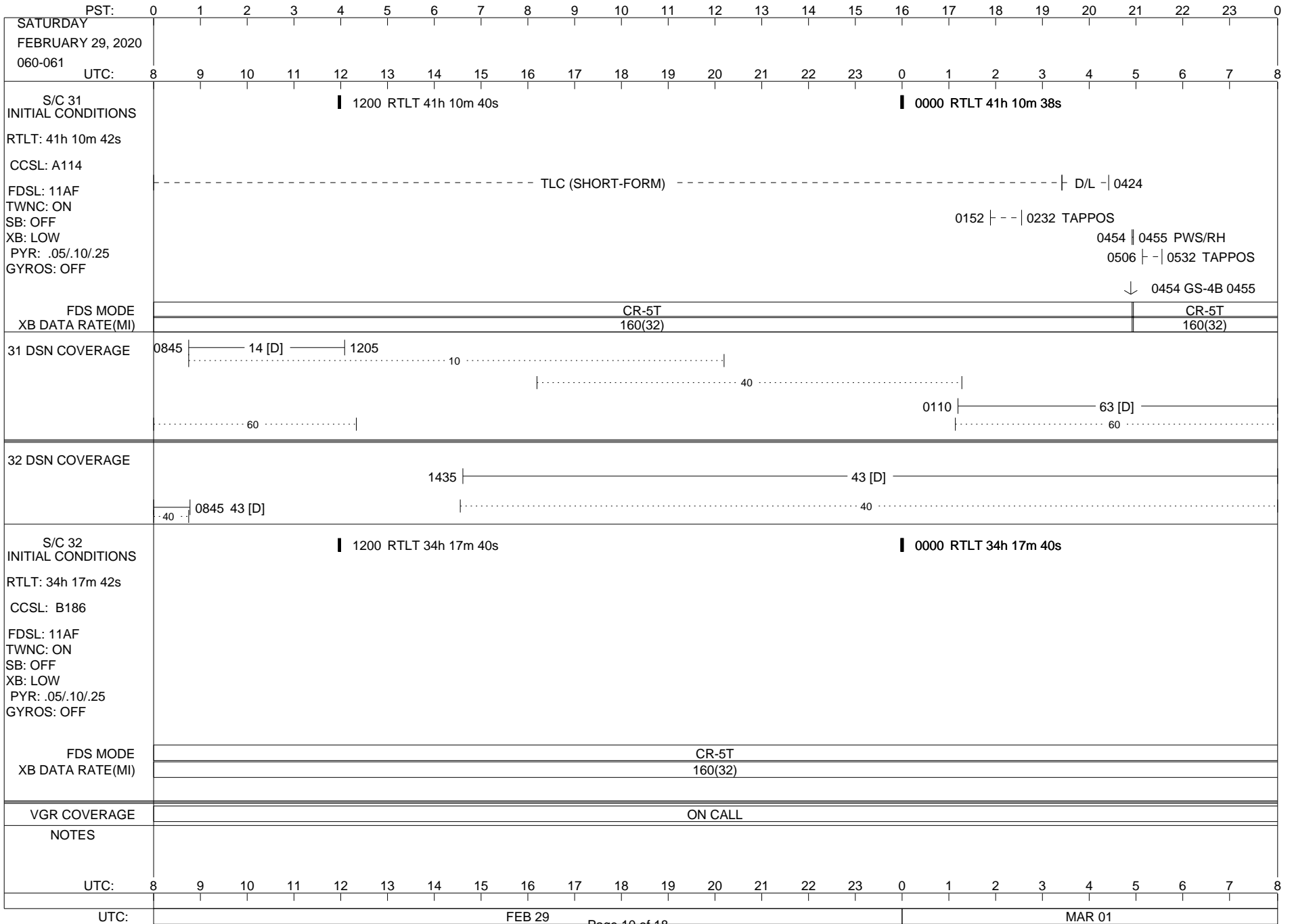
FDS MODE CR-5T  
XB DATA RATE(MI) 160(32)

VGR COVERAGE ON CALL

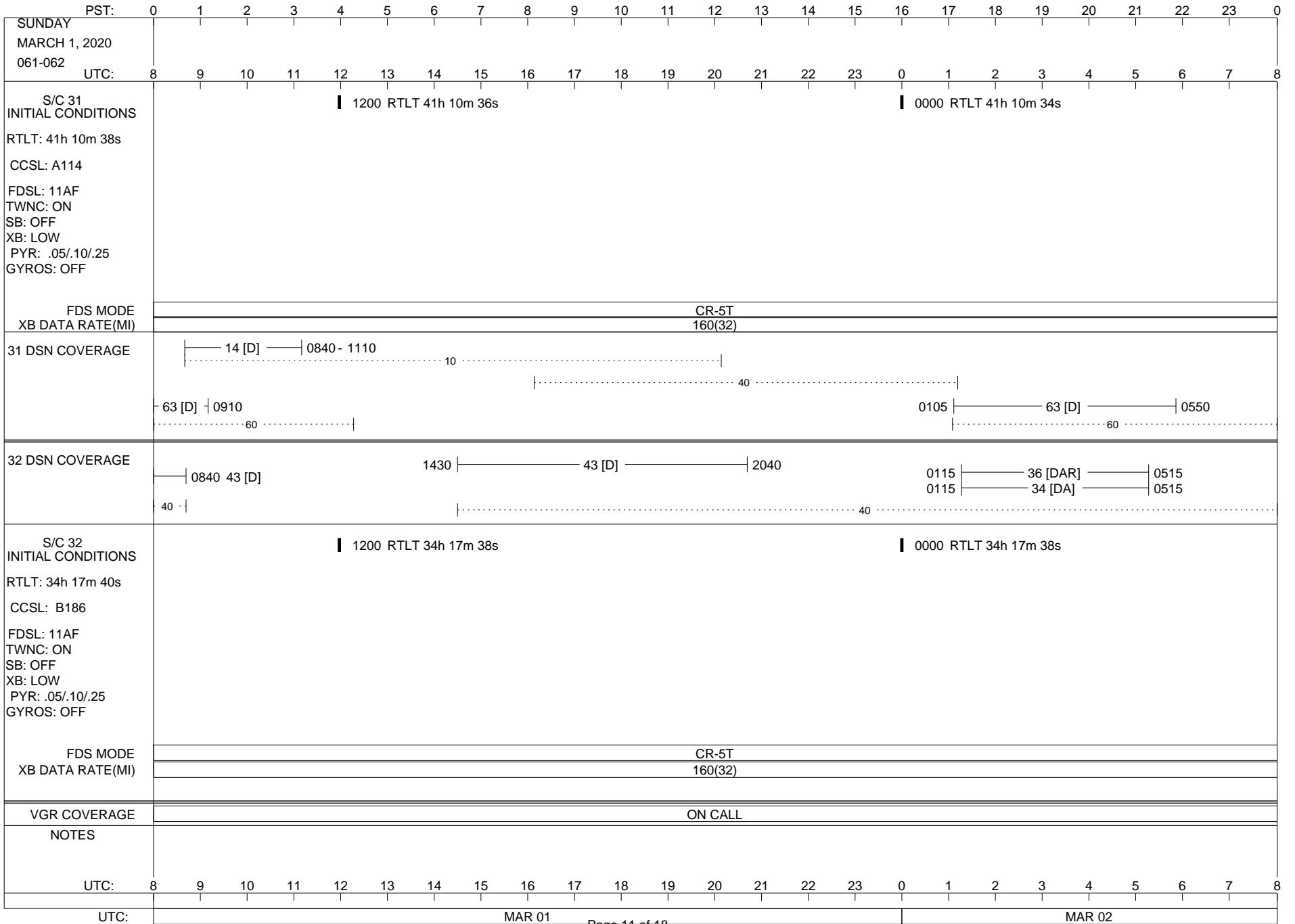
NOTES

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

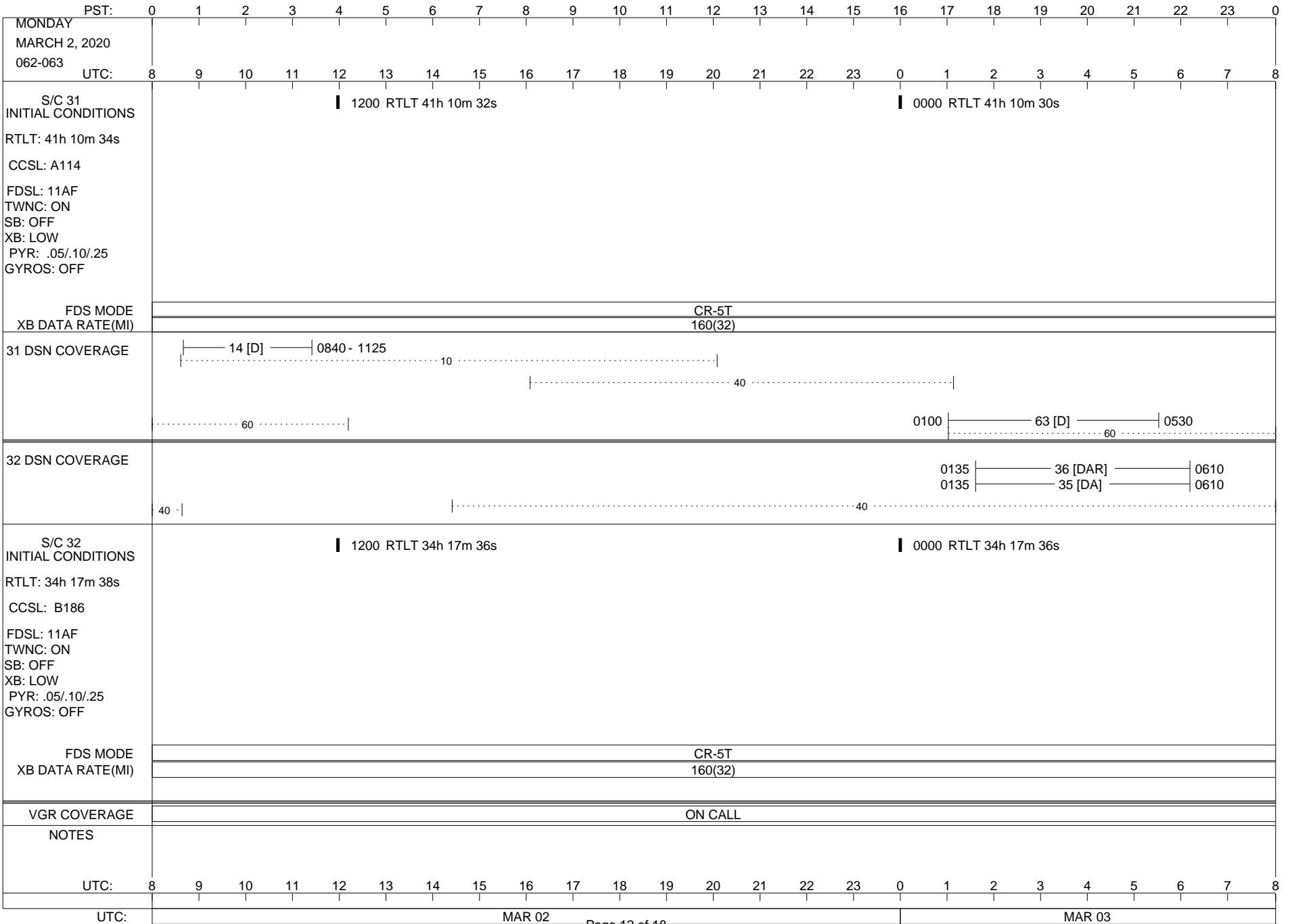
UTC: FEB 28 Page 9 of 18 FEB 29



ISSUE DATE: 02/19/20 10:33



ISSUE DATE: 02/19/20 10:33



ISSUE DATE: 02/19/20 10:33

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  
MARCH 3, 2020  
063-064

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 10m 30s  
CCSL: A114  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 41h 10m 28s 0000 RTLT 41h 10m 26s

1917 | 1918 PWS/RH

↓ 1917 GS-4B 1918

FDS MODE CR-5T CR-5T  
XB DATA RATE(MI) 160(32) 160(32)



S/C 32  
INITIAL CONDITIONS  
RTLT: 34h 17m 36s  
CCSL: B186  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 34h 17m 34s 0000 RTLT 34h 17m 34s

FDS MODE CR-5T  
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: MAR 03 Page 13 of 18 MAR 04

ISSUE DATE: 02/19/20 10:33

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  
MARCH 4, 2020  
064-065  
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 10m 26s  
CCSL: A114  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

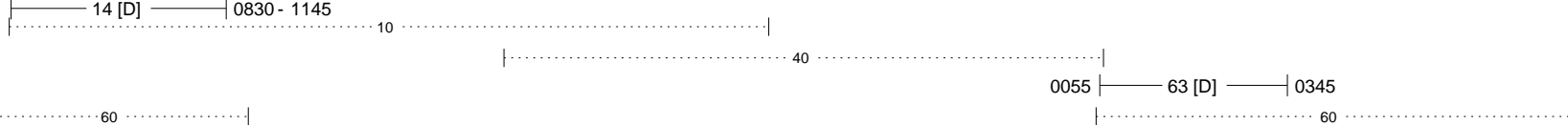
1200 RTLT 41h 10m 22s

0000 RTLT 41h 10m 20s

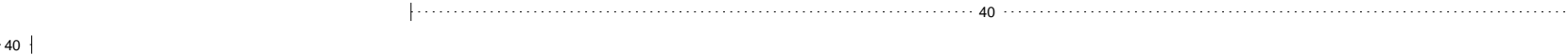
FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLT: 34h 17m 34s  
CCSL: B186  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 34h 17m 32s

0000 RTLT 34h 17m 32s

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

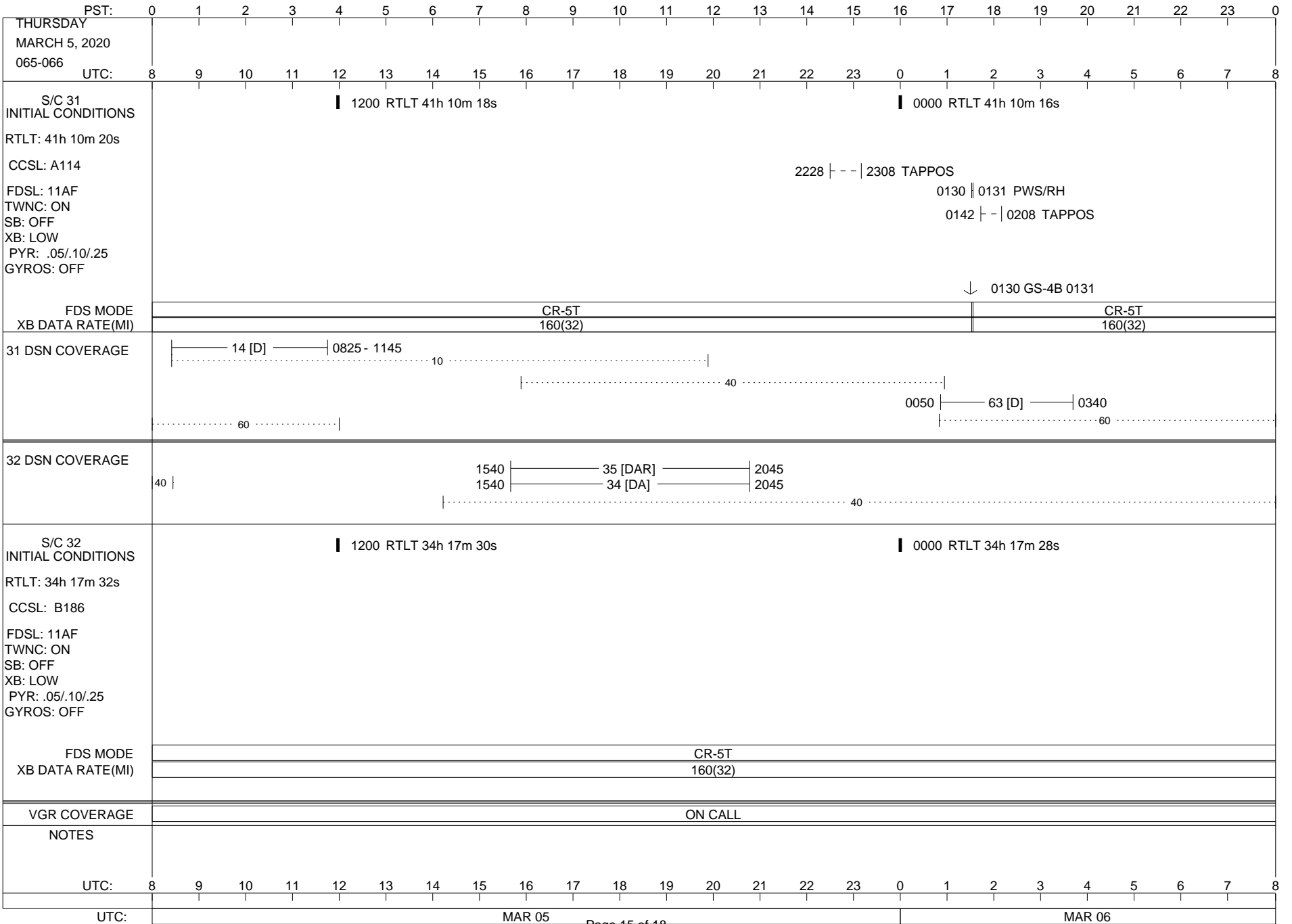
ON CALL

NOTES

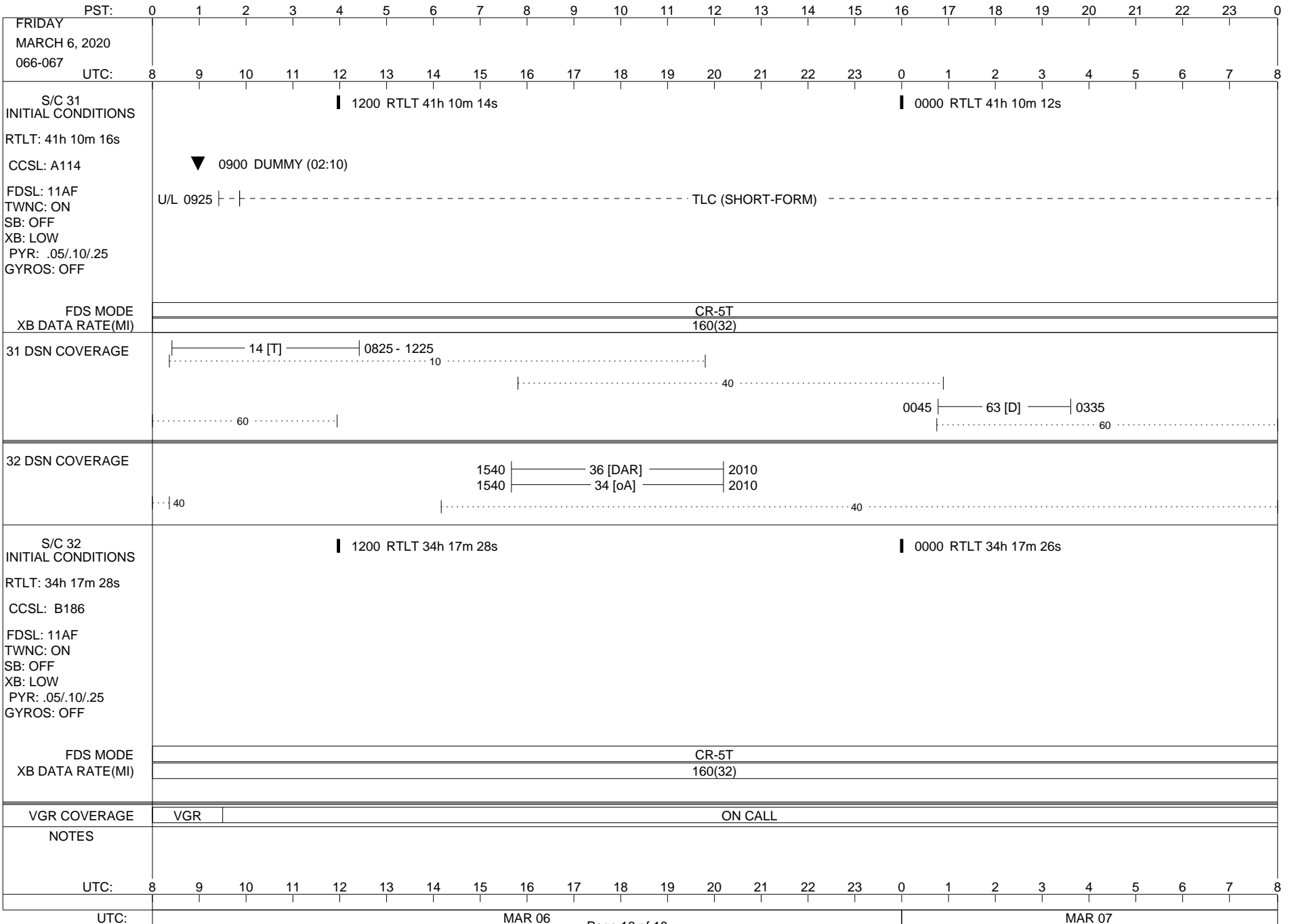
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UTC: MAR 04 Page 14 of 18 MAR 05

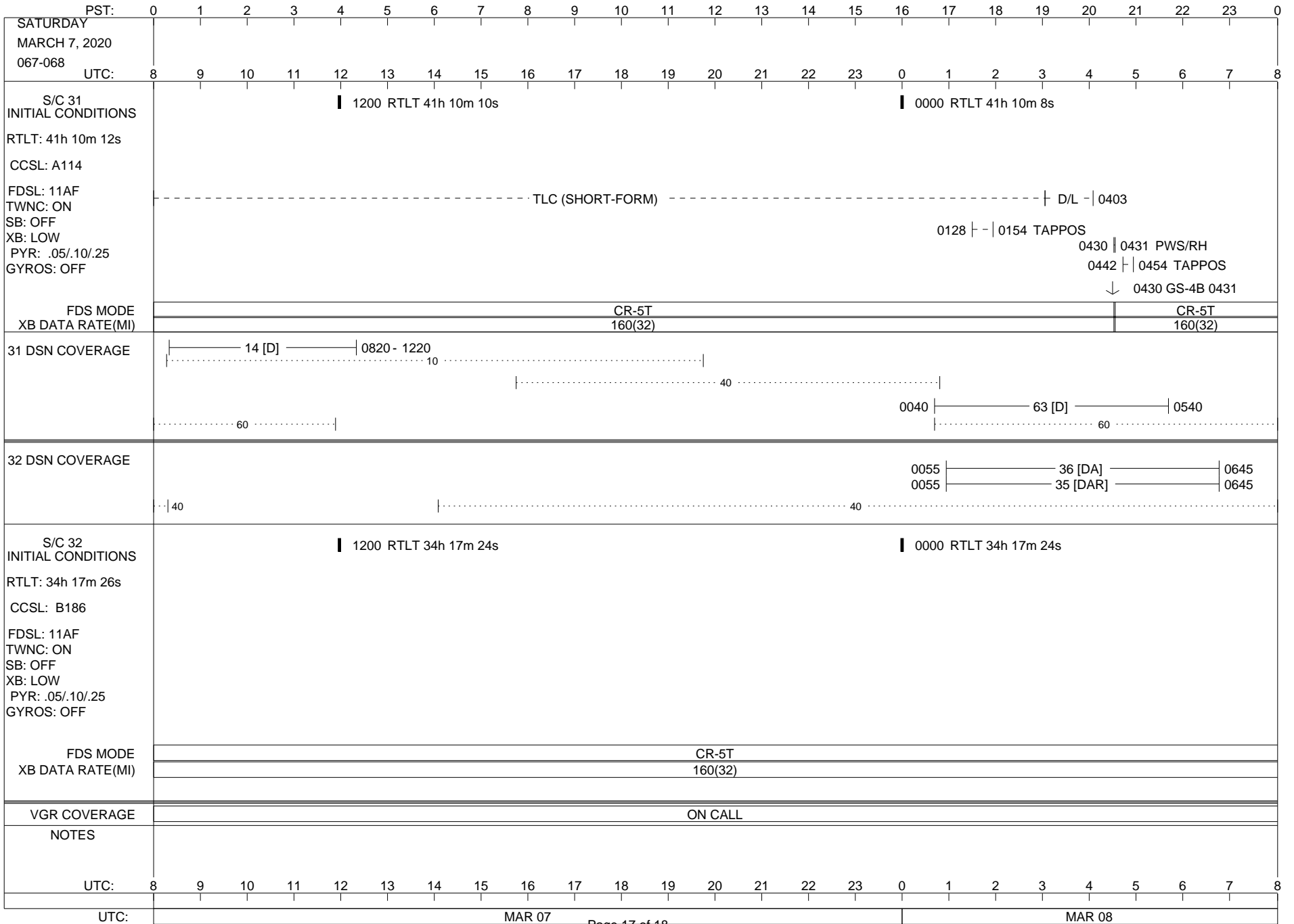
ISSUE DATE: 02/19/20 10:33







ISSUE DATE: 02/19/20 10:33



ISSUE DATE: 02/19/20 10:33

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SUNDAY MARCH 8, 2020 068-069	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 10m 8s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> </div>																								
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	<div style="text-align: center;"> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 34h 17m 24s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> </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:	MAR 08													MAR 09											