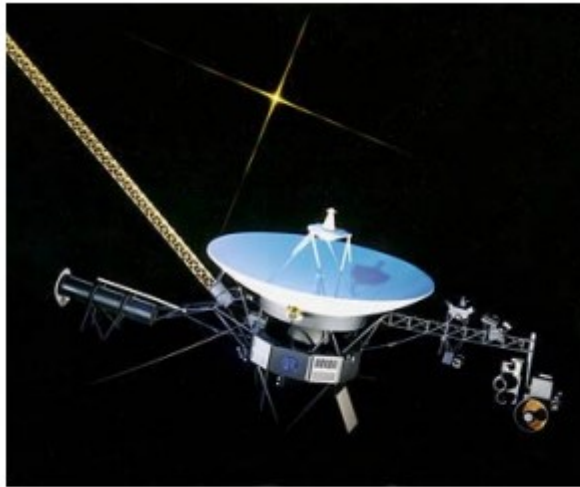


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: January 8, 2020

For the Period: 01/09/20 to 02/03/20 (20/009 – 20/034)



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

**LEGEND:**

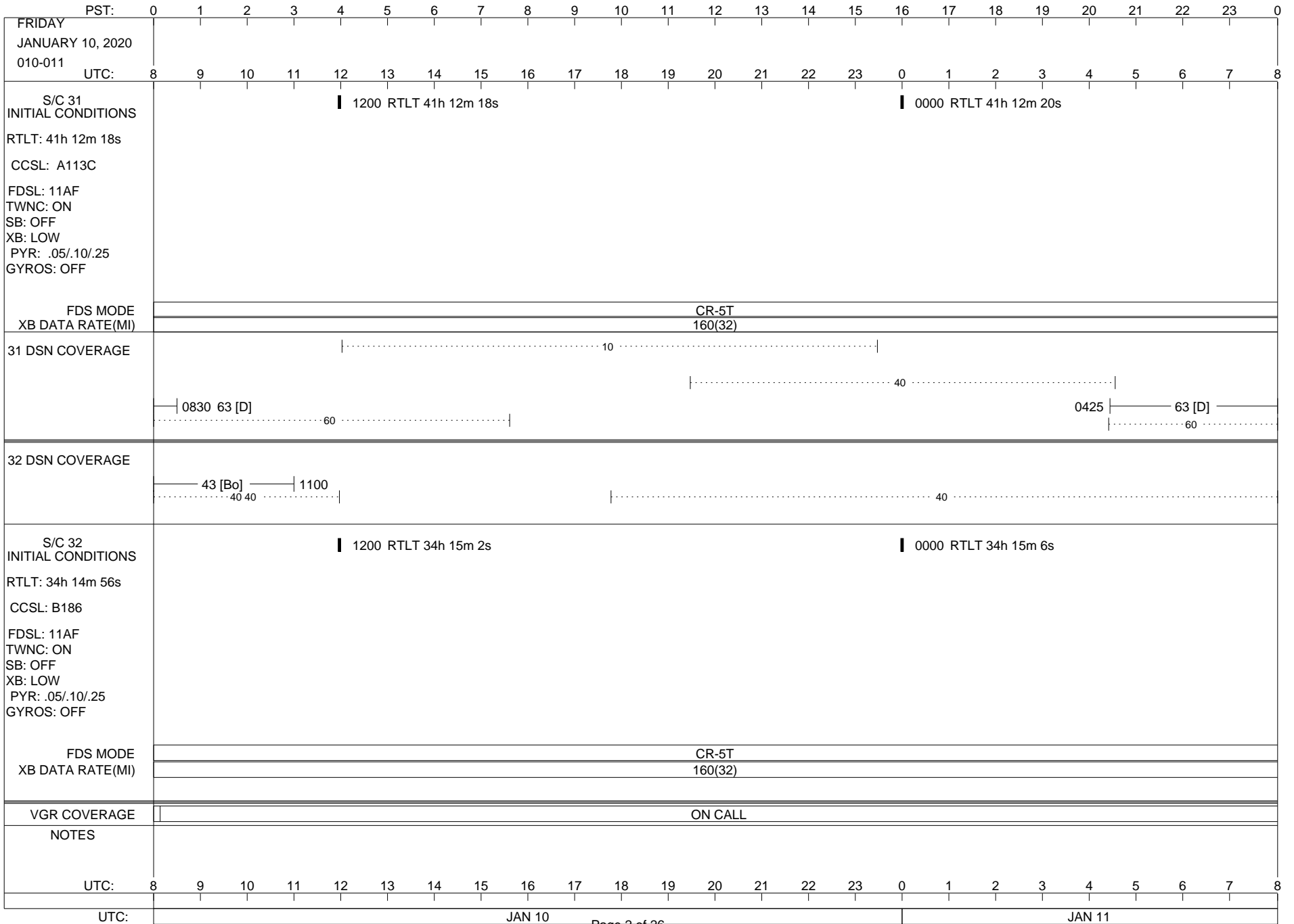
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

02/27/19

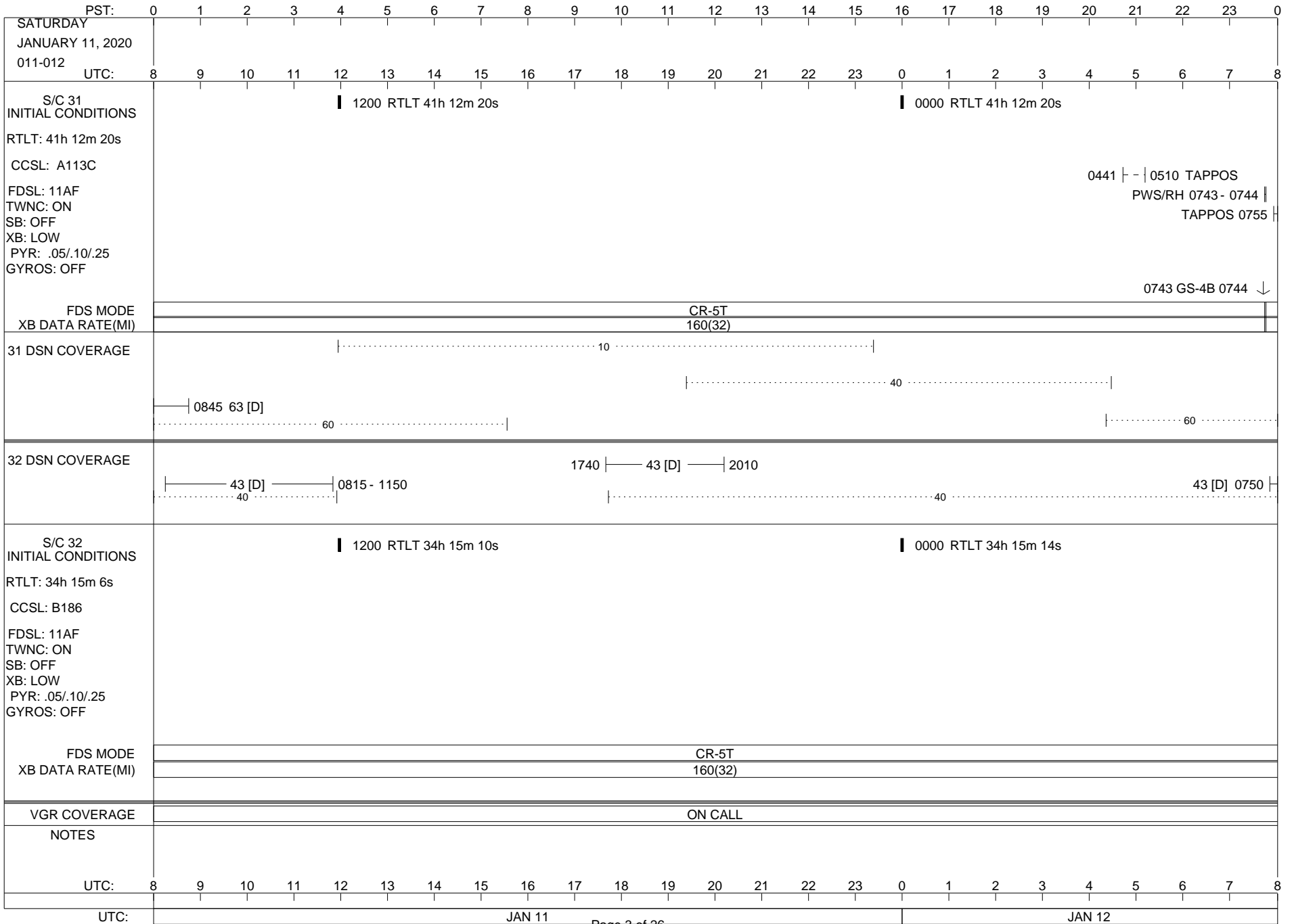
ISSUE DATE: 01/08/20 10:25

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 9, 2020 009-010	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 12m 14s CCSL: A113C FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 12m 16s												0000 RTLT 41h 12m 18s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	-----  10												-----  40												
	-----  60												0430  -----  63 [D]  -----  60												
32 DSN COVERAGE	-----  40 40												0545  -----  43 [Bo]  -----												
S/C 32 INITIAL CONDITIONS RTLT: 34h 14m 48s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 14m 52s												0000 RTLT 34h 14m 56s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												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:	JAN 09												JAN 10												

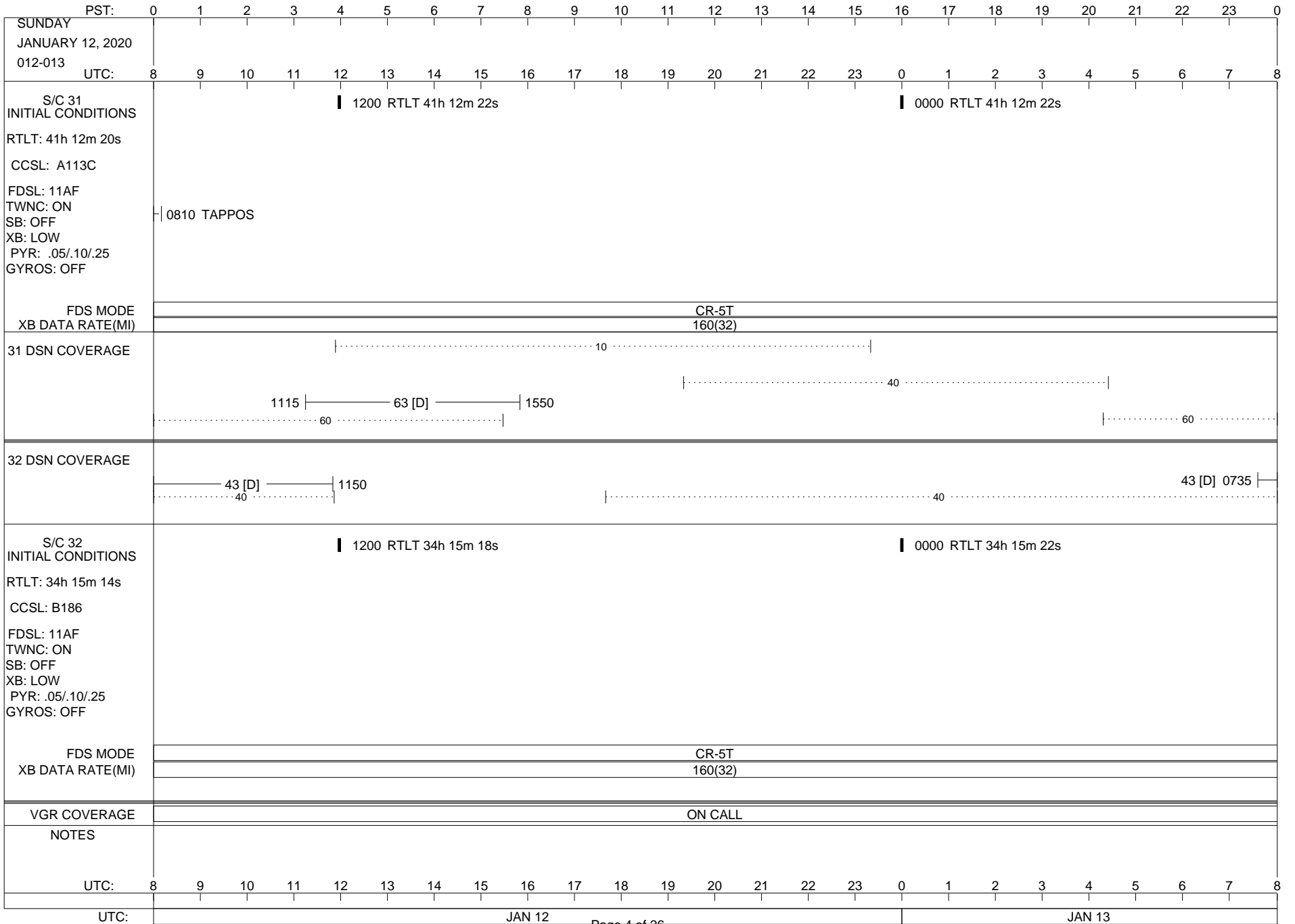
ISSUE DATE: 01/08/20 10:25



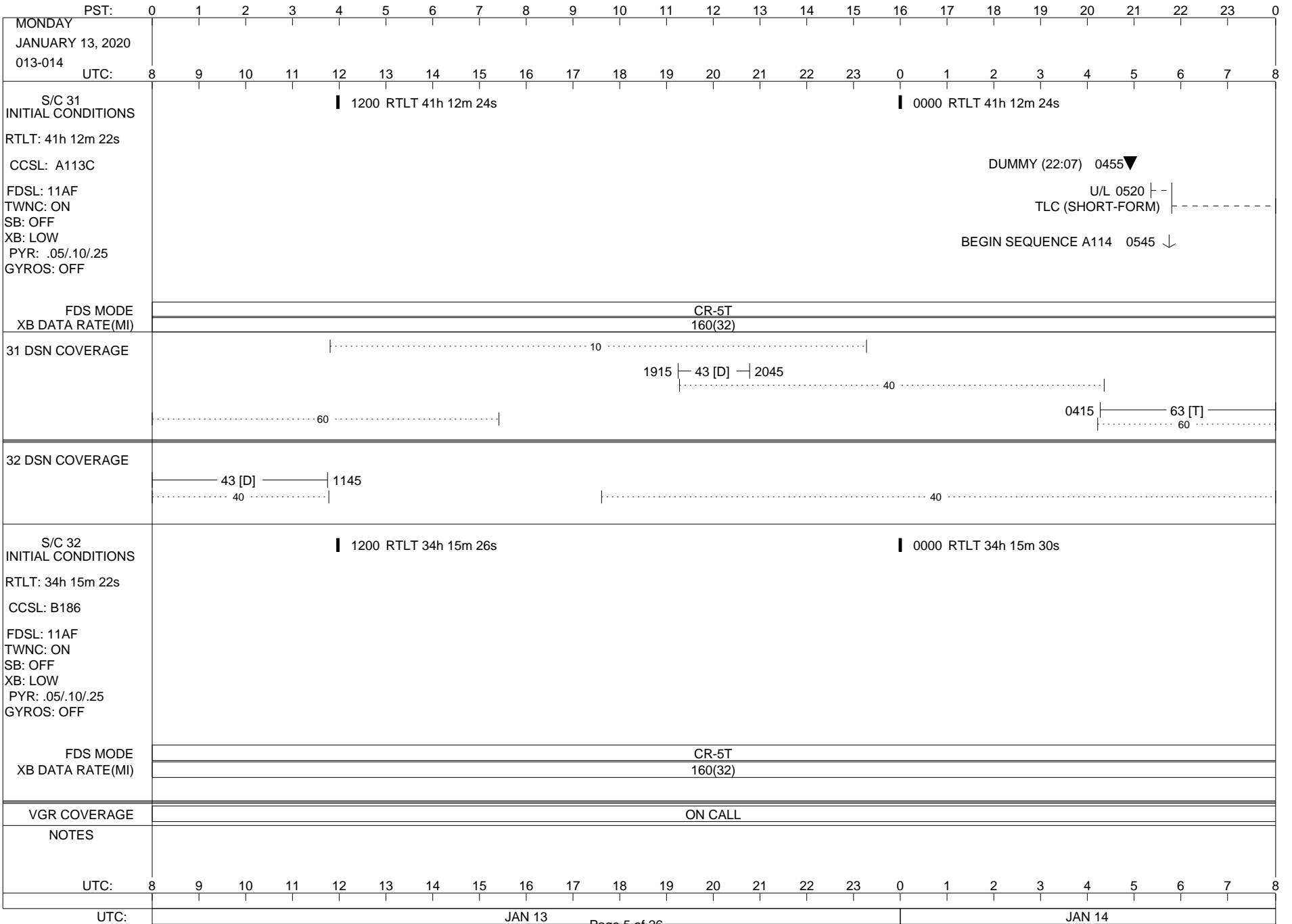
ISSUE DATE: 01/08/20 10:25



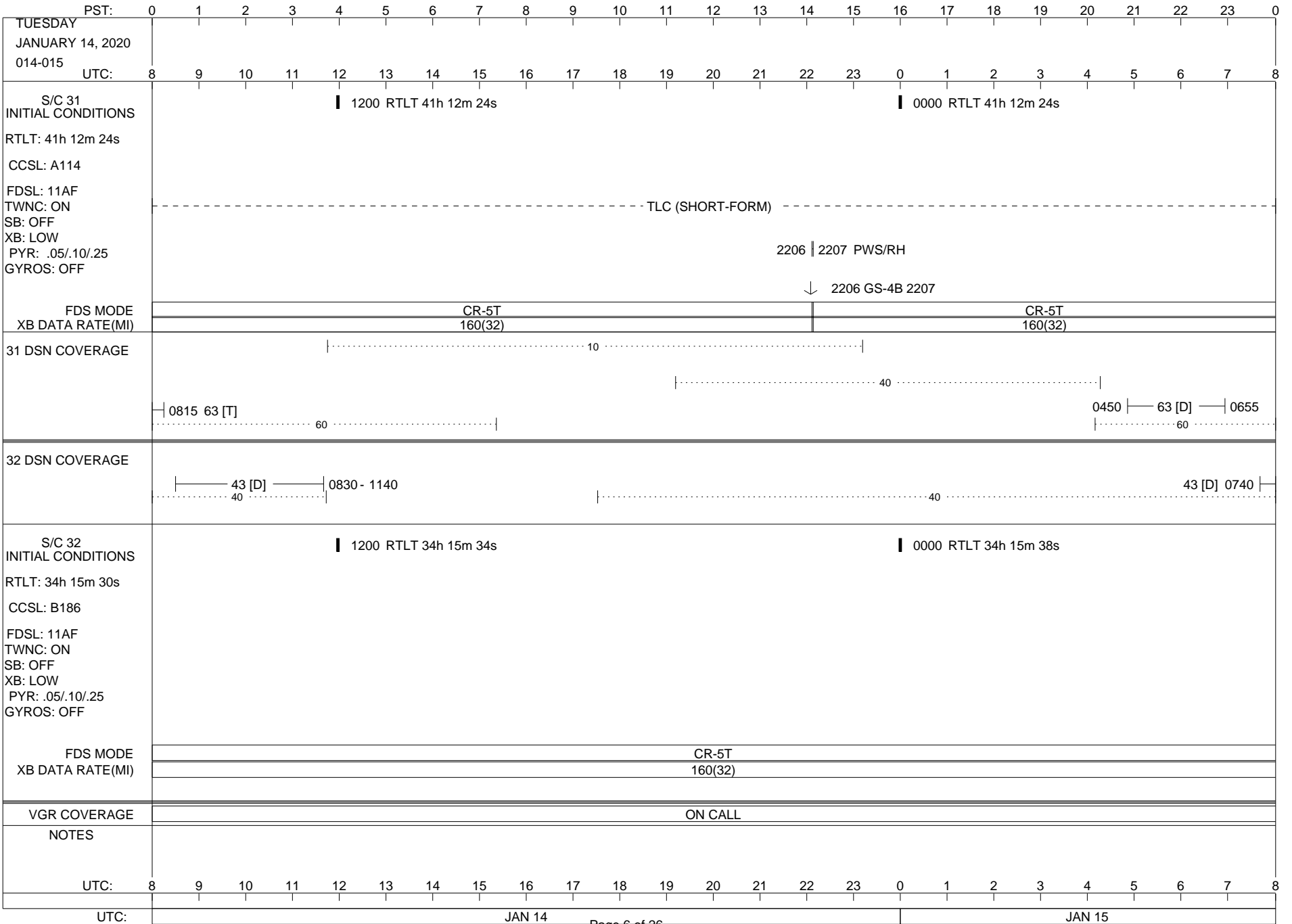
ISSUE DATE: 01/08/20 10:25



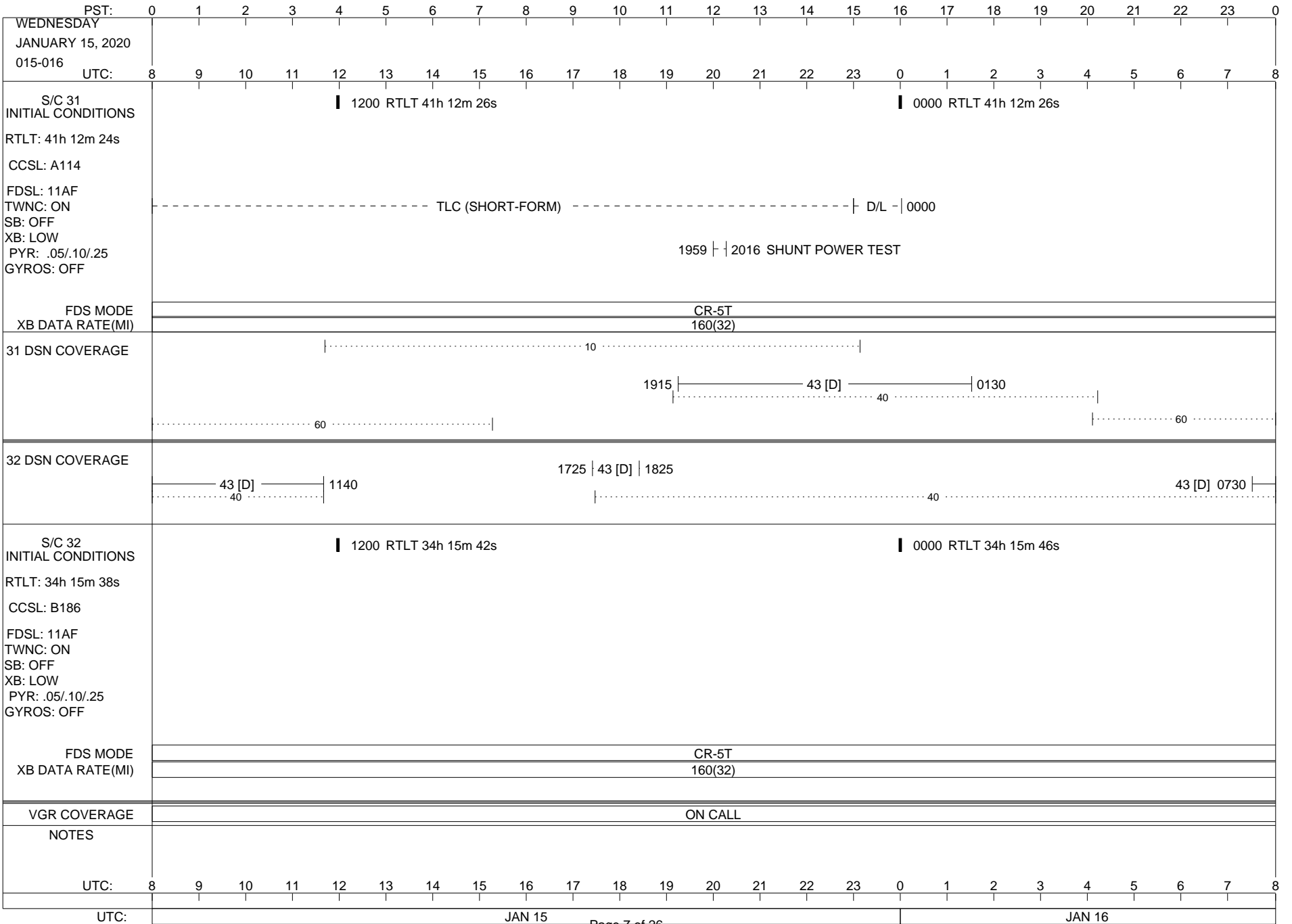
ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

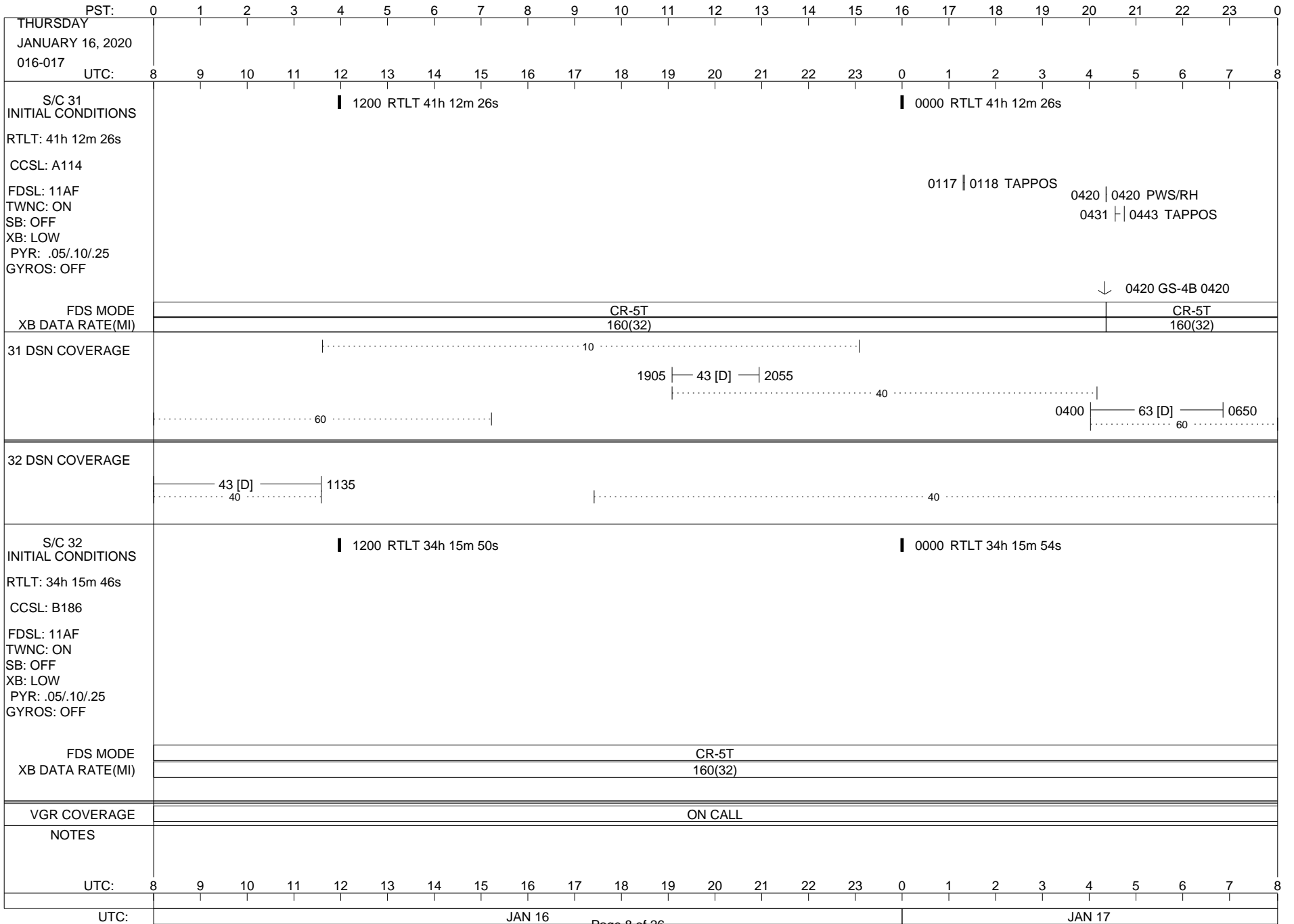


ISSUE DATE: 01/08/20 10:25

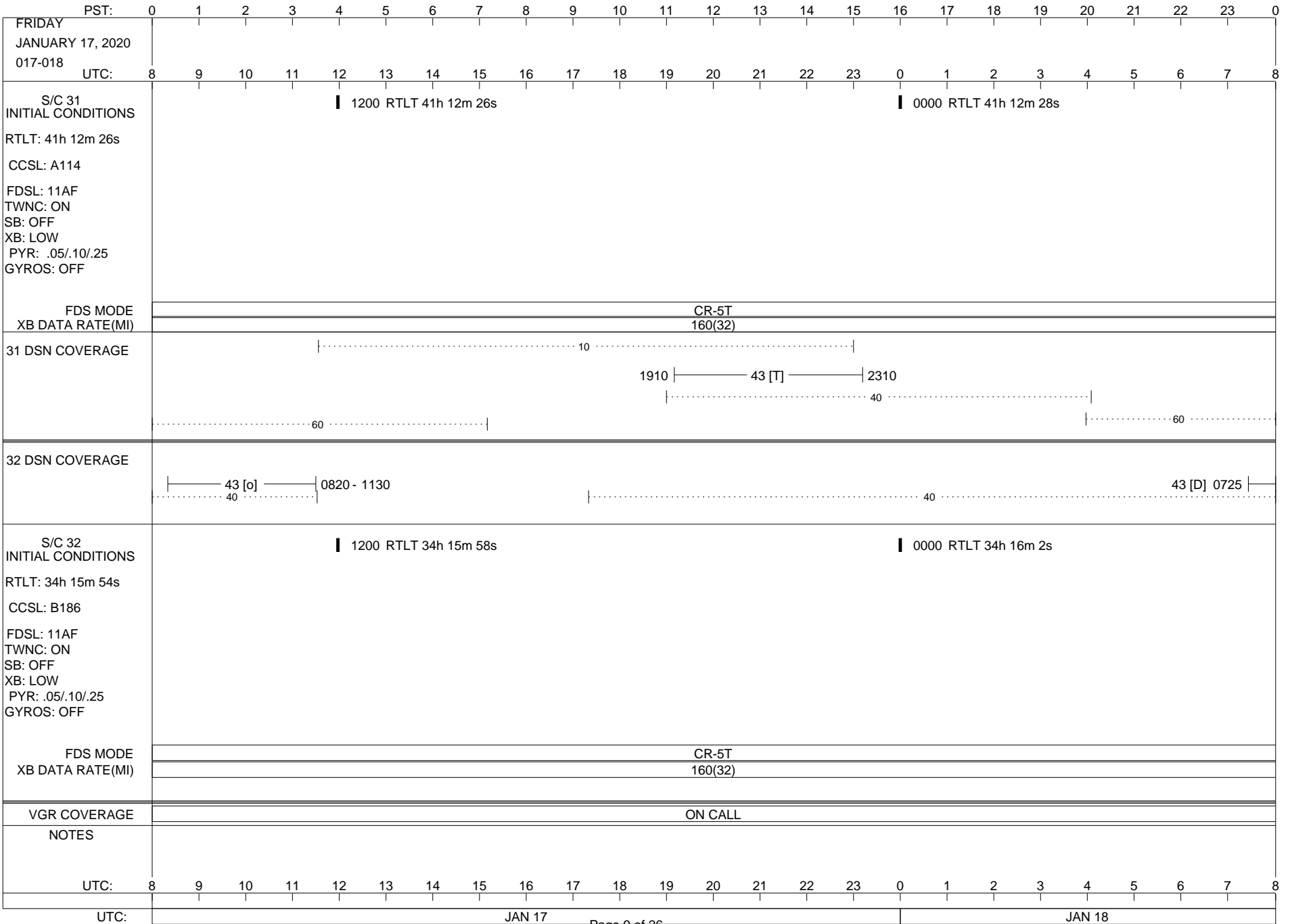




ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

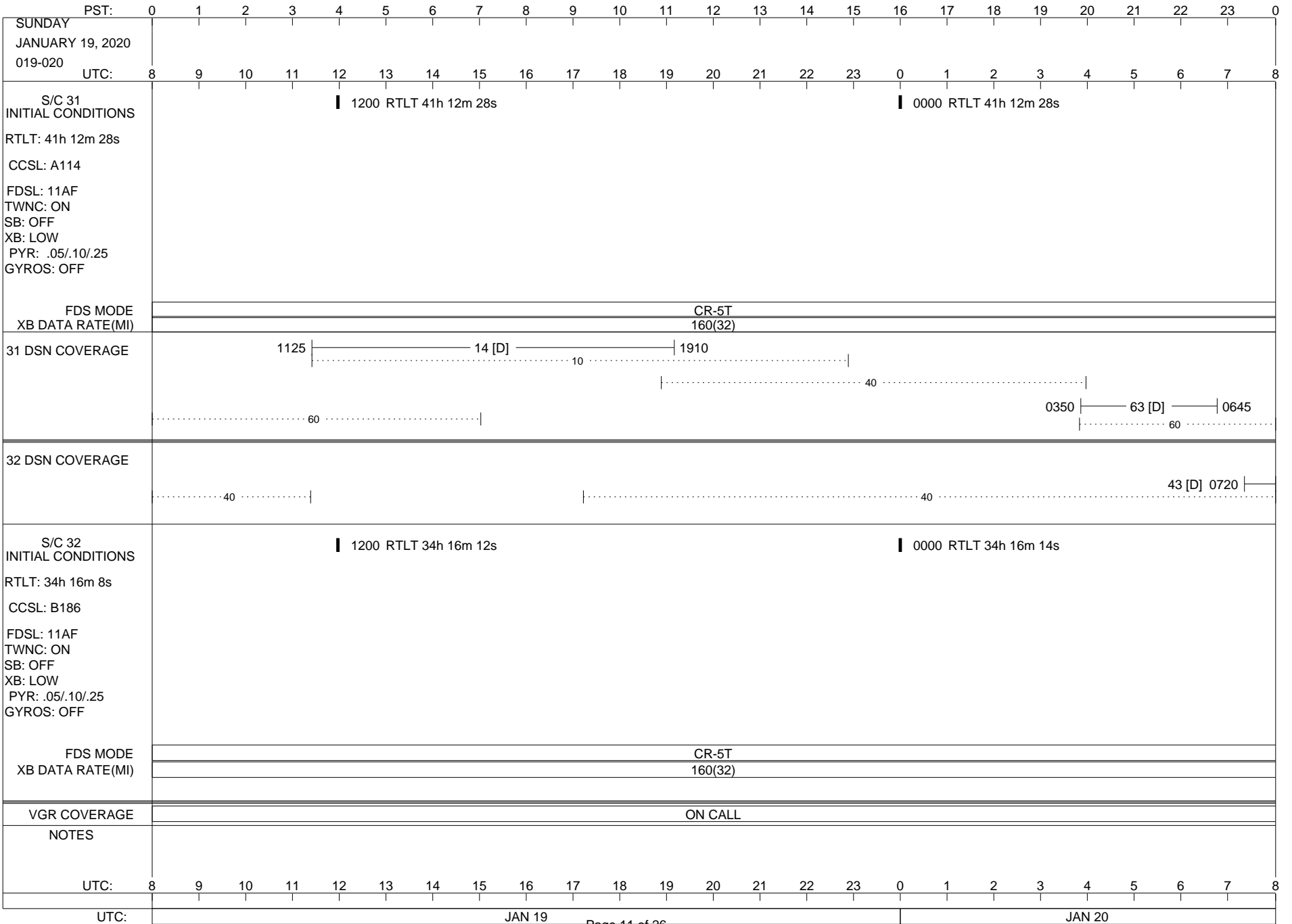


PST:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
SATURDAY JANUARY 18, 2020 018-019	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 41h 12m 28s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 41h 12m 28s												0000 RTLT 41h 12m 28s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
31 DSN COVERAGE	1130  ----- 14 [D] -----  1535												10 ..... ----- 40 -----												
	60 ..... ----- 60 -----																								
32 DSN COVERAGE	43 [D] -----  1125				1735  ----- 43 [H1] -----  2315				0505 - 0750  ----- 43 [D] -----																
S/C 32 INITIAL CONDITIONS RTLT: 34h 16m 2s CCSL: B186 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 34h 16m 4s												0000 RTLT 34h 16m 8s												
FDS MODE	CR-5T																								
XB DATA RATE(MI)	160(32)																								
VGR COVERAGE	ON CALL												VGR				ON CALL								
NOTES	[1] HP DRV ON >= 18:40																								
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 18												Page 10 of 26				JAN 19								

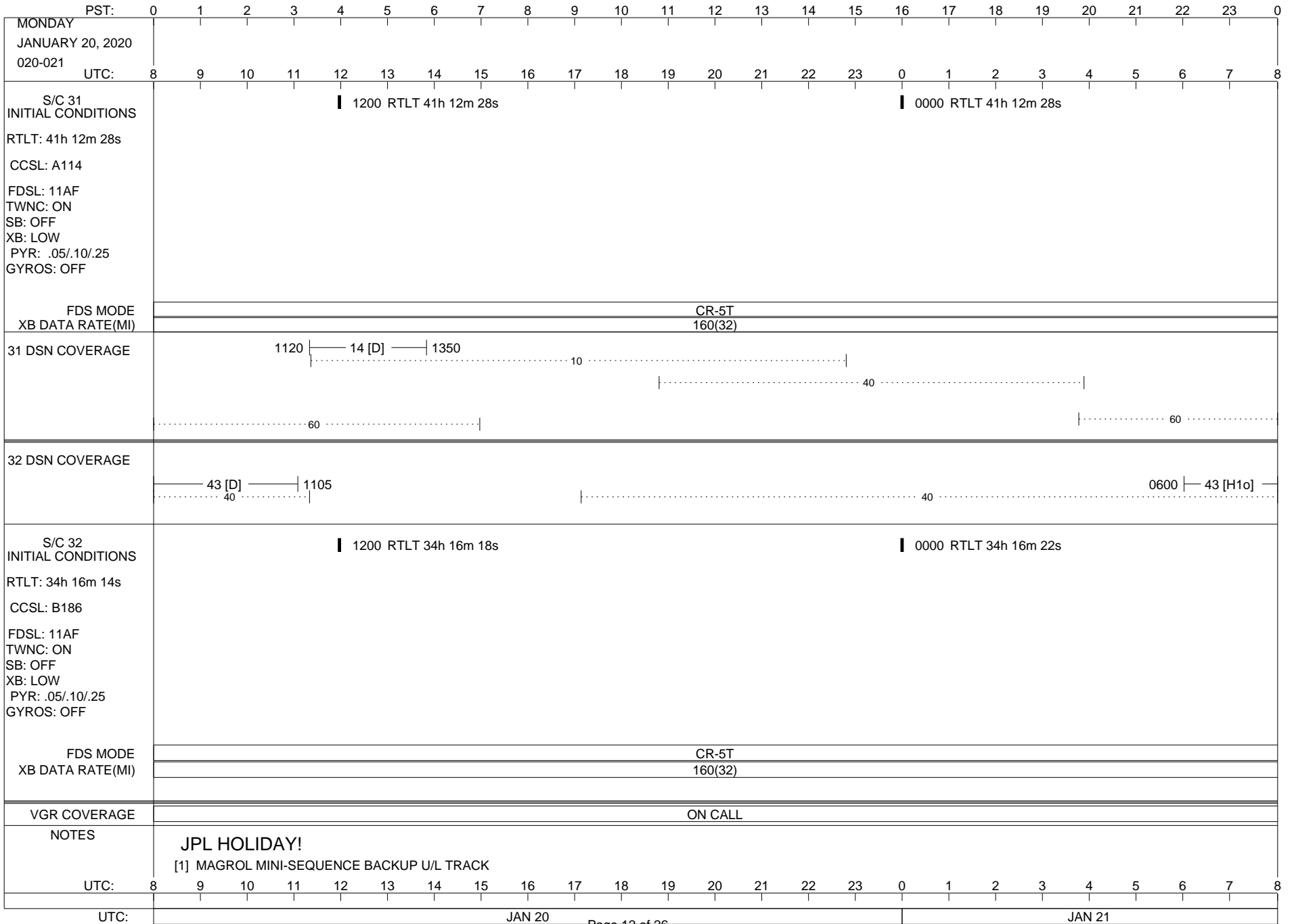
0417 | 0430 TAPPOS  
PWS/RH 0720 - 0720 |  
TAPPOS 0731 - 0757 | - |  
  
0720 GS-4B 0720 ↓

- ▼ 2105 DUMMY (07:21)
- ▼ 2117 EL-40 (07:33)
- ▼ 2139 CCSL B186C MINI-SEQUENCE (07:55)
- ▼ 2220 CCSTIM F/C (08:37)
- ▼ 2248 CR-5T (09:05)

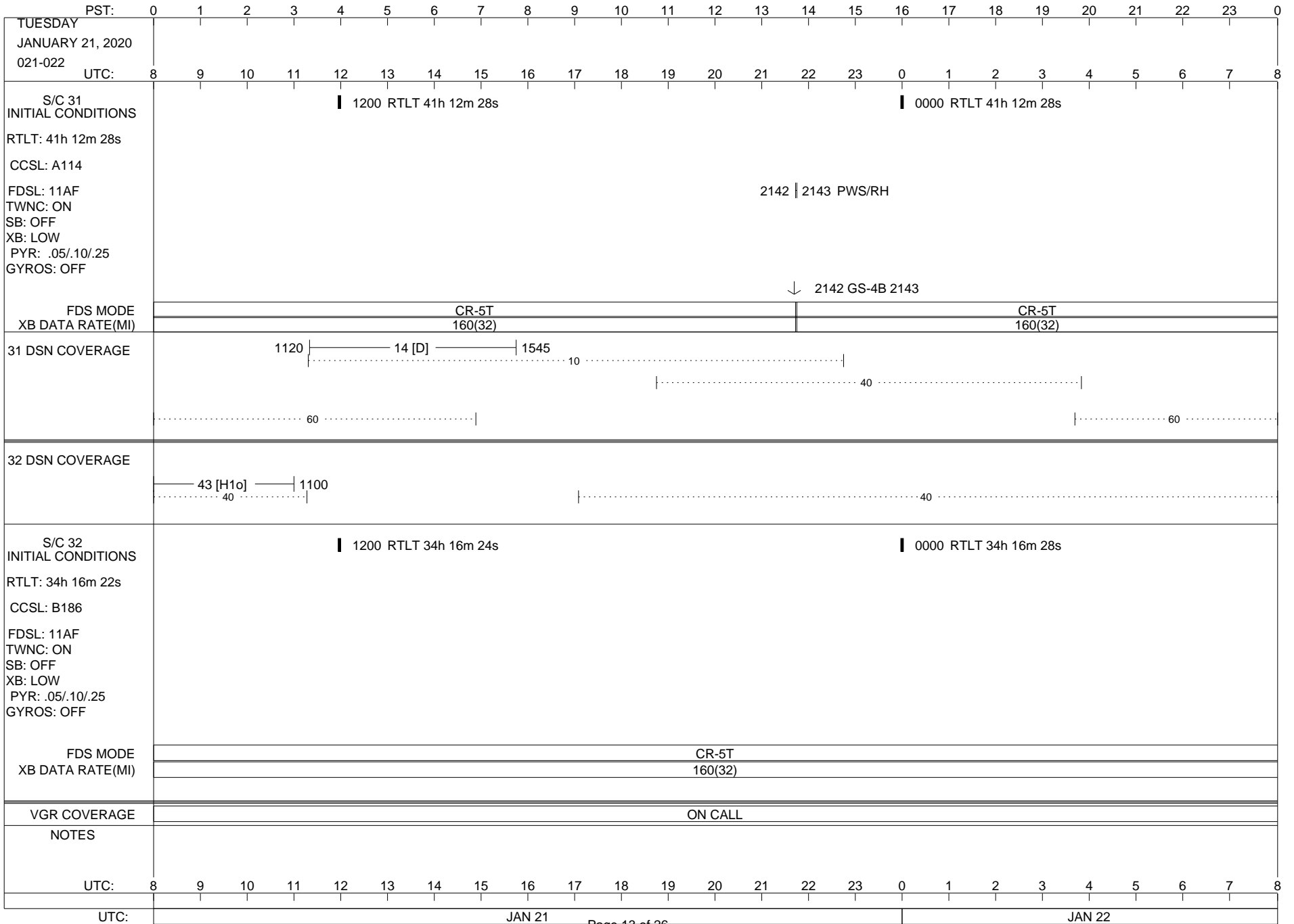
ISSUE DATE: 01/08/20 10:25



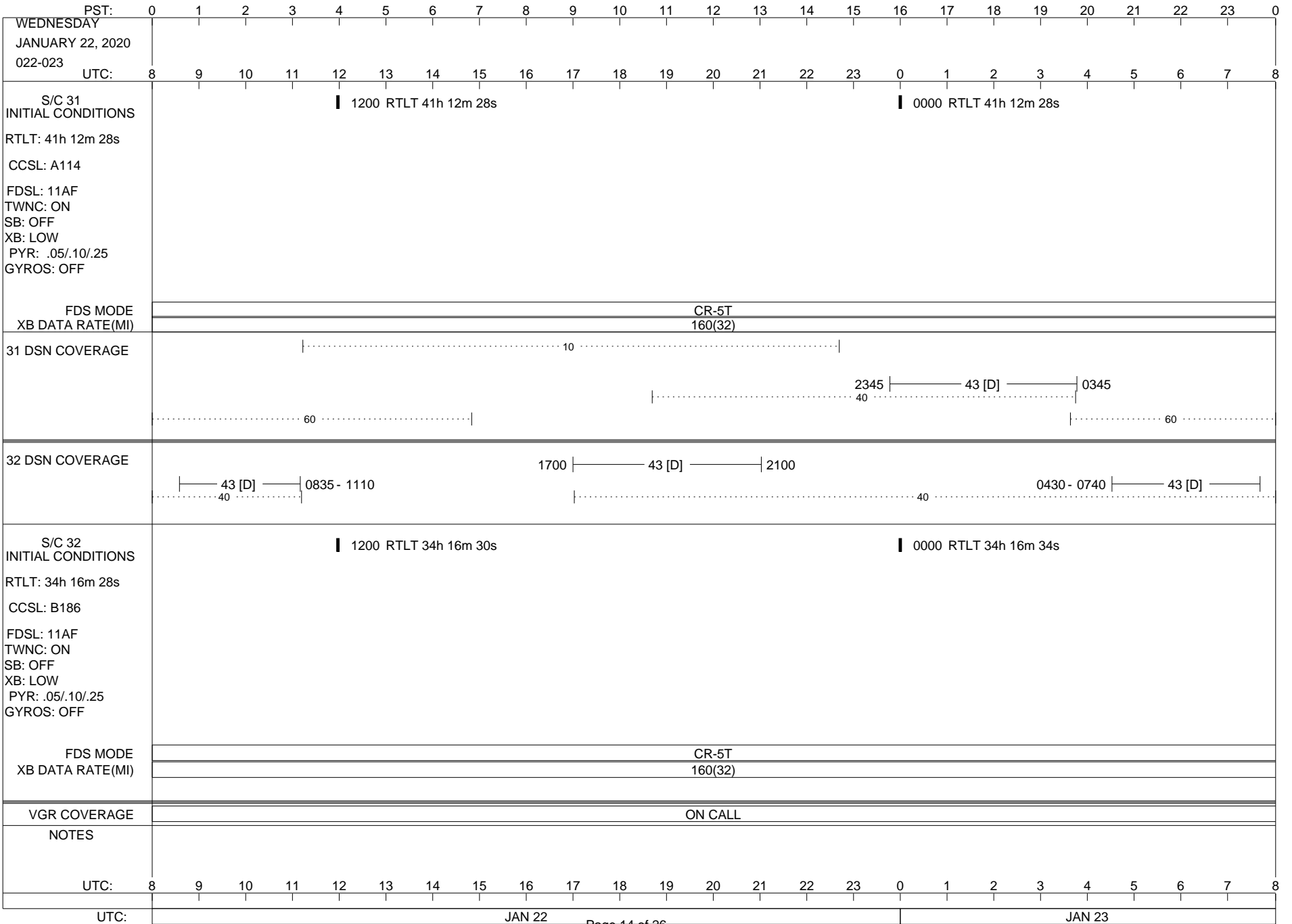
ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

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 23, 2020  
023-024

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 12m 28s  
CCSL: A114  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 41h 12m 26s

0000 RTLT 41h 12m 26s

0053 | - - | 0133 TAPPOS  
0355 | 0356 PWS/RH  
0407 | - | 0433 TAPPOS

↓ 0355 GS-4B 0356

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

CR-5T  
160(32)

31 DSN COVERAGE

.....| ..... 10 .....|

.....| ..... 40 .....|

.....| ..... 60 .....|

.....| ..... 60 .....|

32 DSN COVERAGE

.....| ..... 40 .....|

.....| ..... 40 .....|

S/C 32  
INITIAL CONDITIONS  
RTLT: 34h 16m 34s  
CCSL: B186  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 34h 16m 36s

0000 RTLT 34h 16m 40s

1021 | - - - - - COMMAND MORATORIUM - - - - -

BEGIN B186C MINI-SEQUENCE 0249 ↓

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

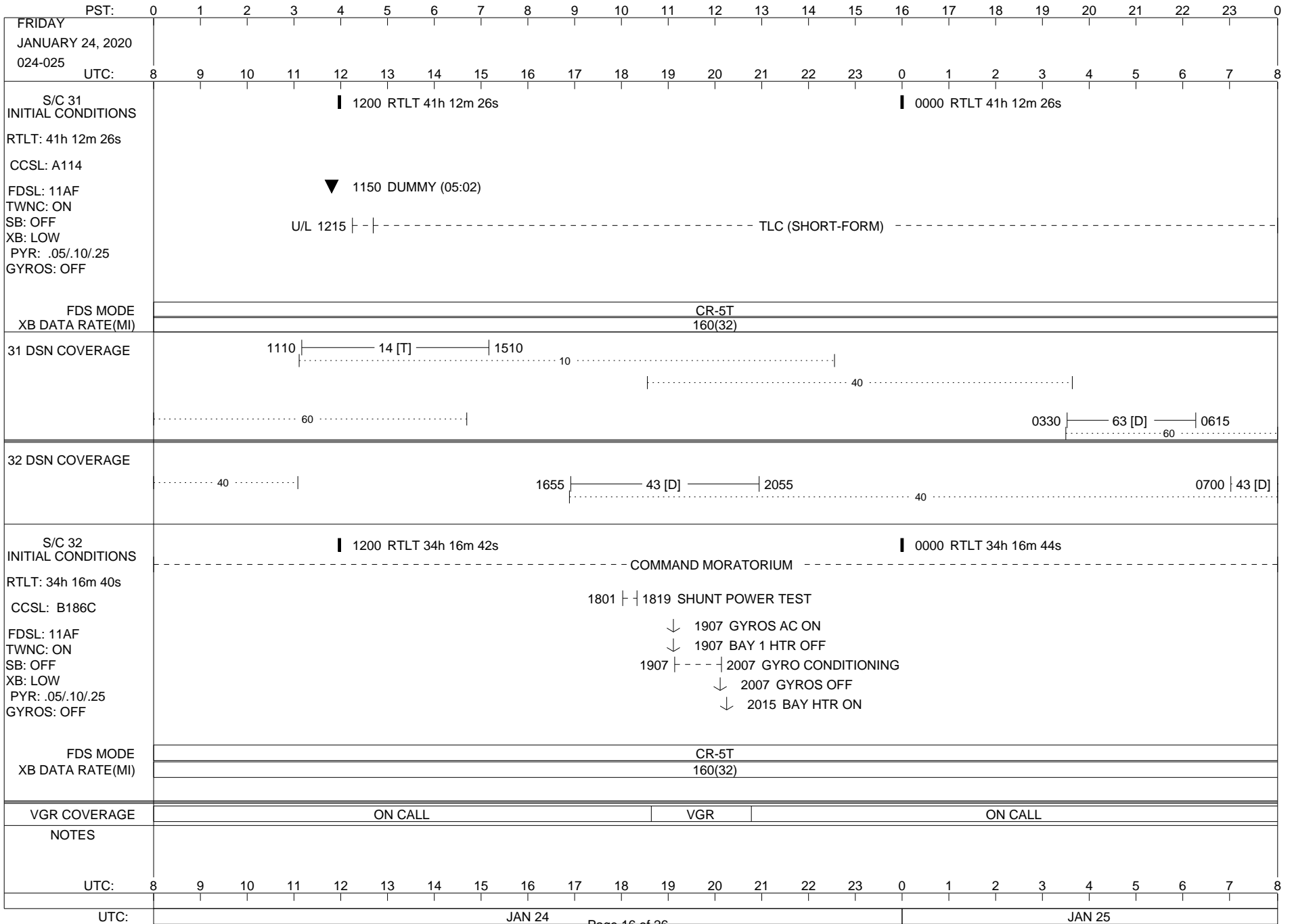
ON CALL

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: JAN 23 Page 15 of 26 JAN 24

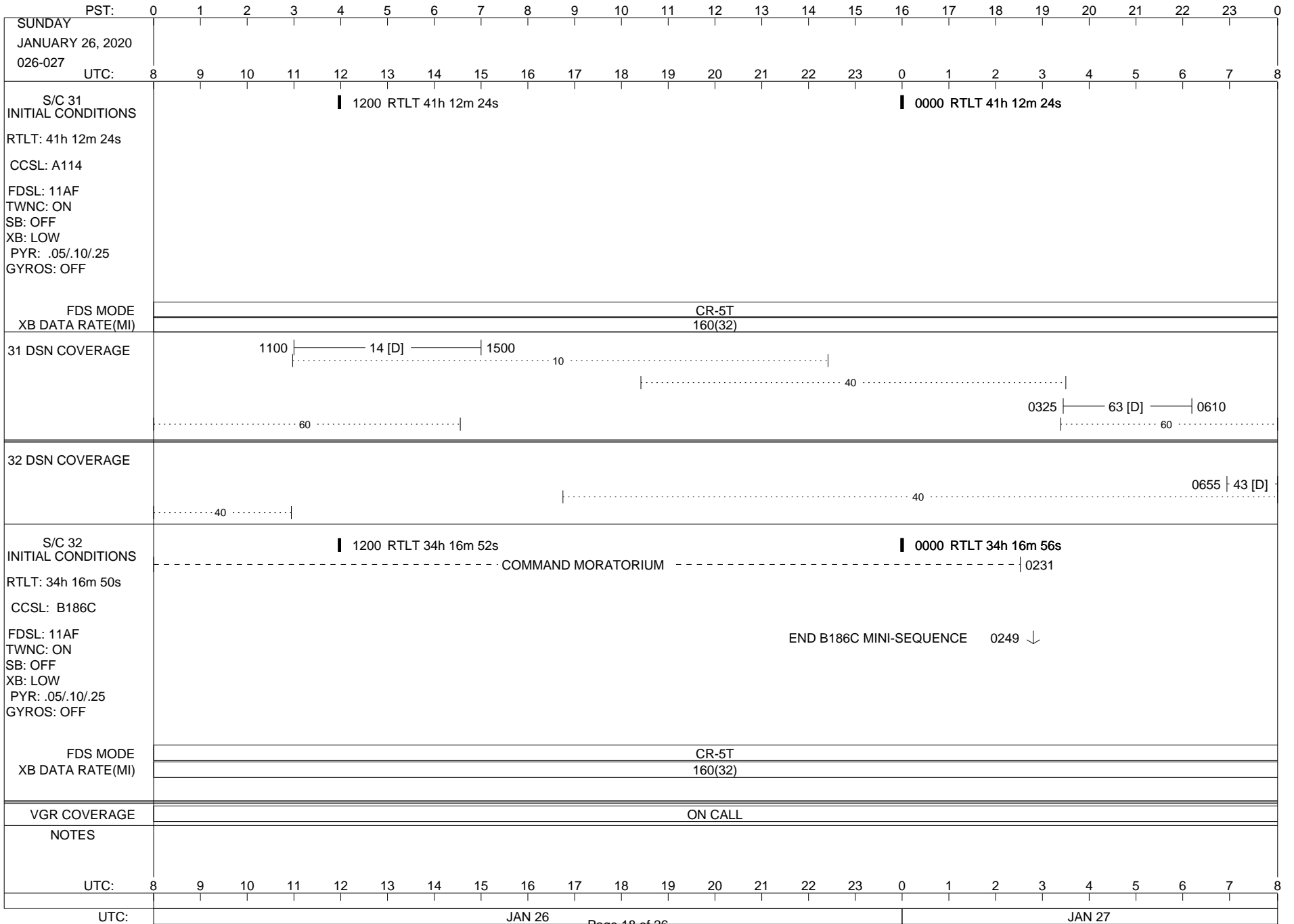




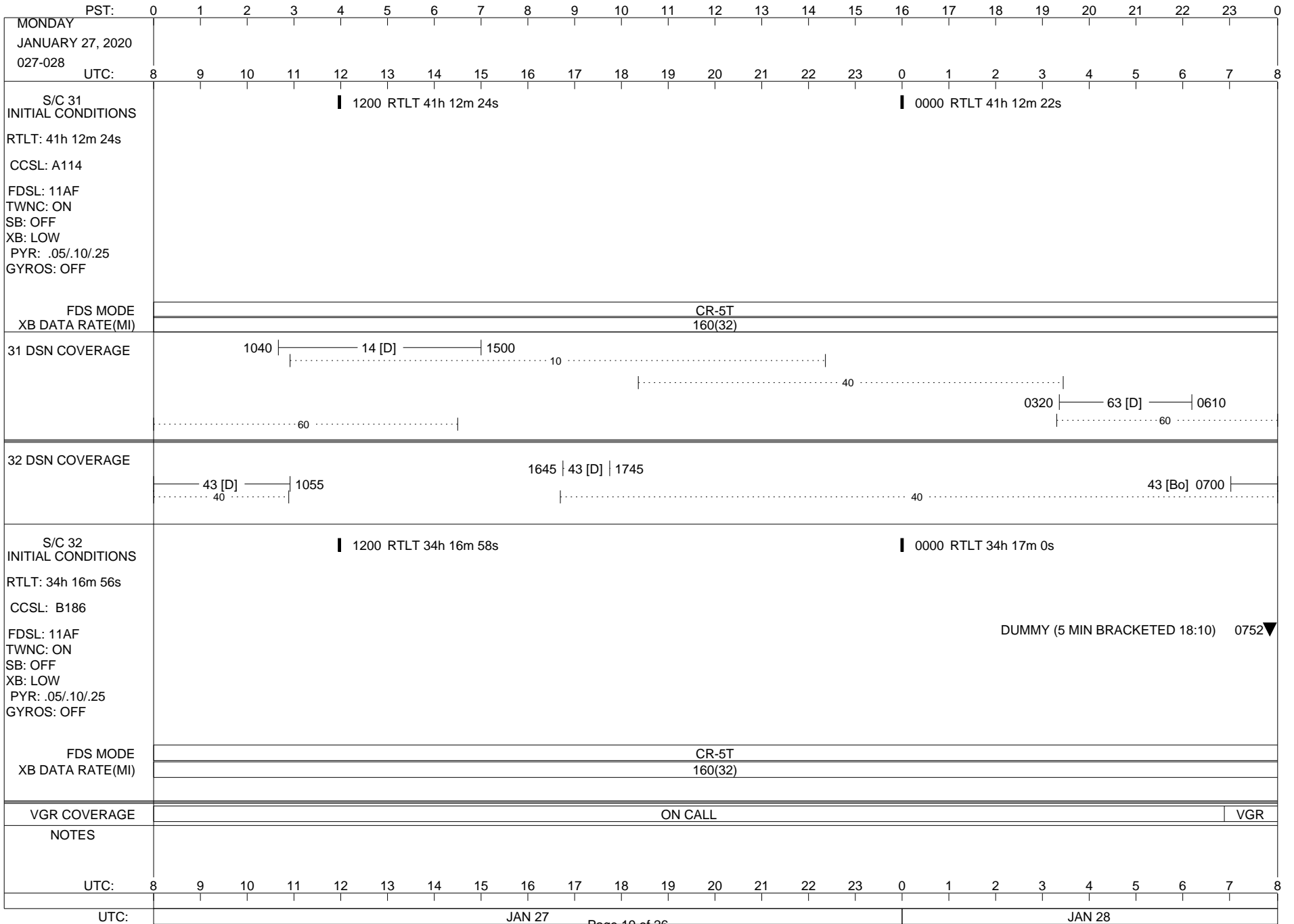
ISSUE DATE: 01/08/20 10:25

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 JANUARY 25, 2020 025-026	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 26s CCSL: A114 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 41h 12m 26s												0000 RTLTL 41h 12m 24s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1105   14 [D]   1345												0325   63 [D]   0615												
32 DSN COVERAGE	43 [D]   1100												2355 - 0715   43 [A1o]   0035   35 [DAR1]   0245												
S/C 32 INITIAL CONDITIONS RTLTL: 34h 16m 44s CCSL: B186C FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 34h 16m 48s												0000 RTLTL 34h 16m 50s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0138-0212)																								
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 25												JAN 26												

ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

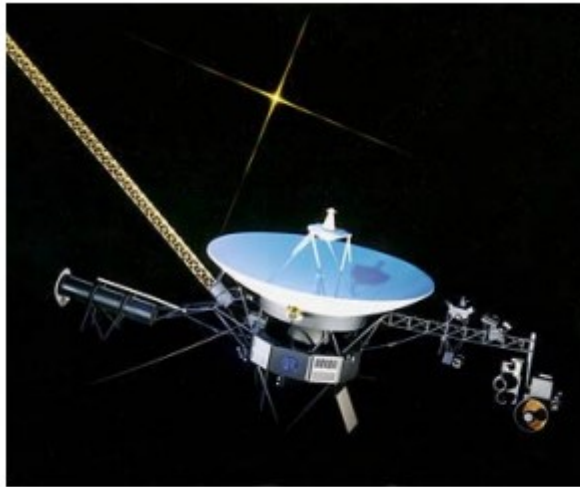


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: January 8, 2020

For the Period: 01/09/20 to 02/03/20 (20/009 – 20/034)



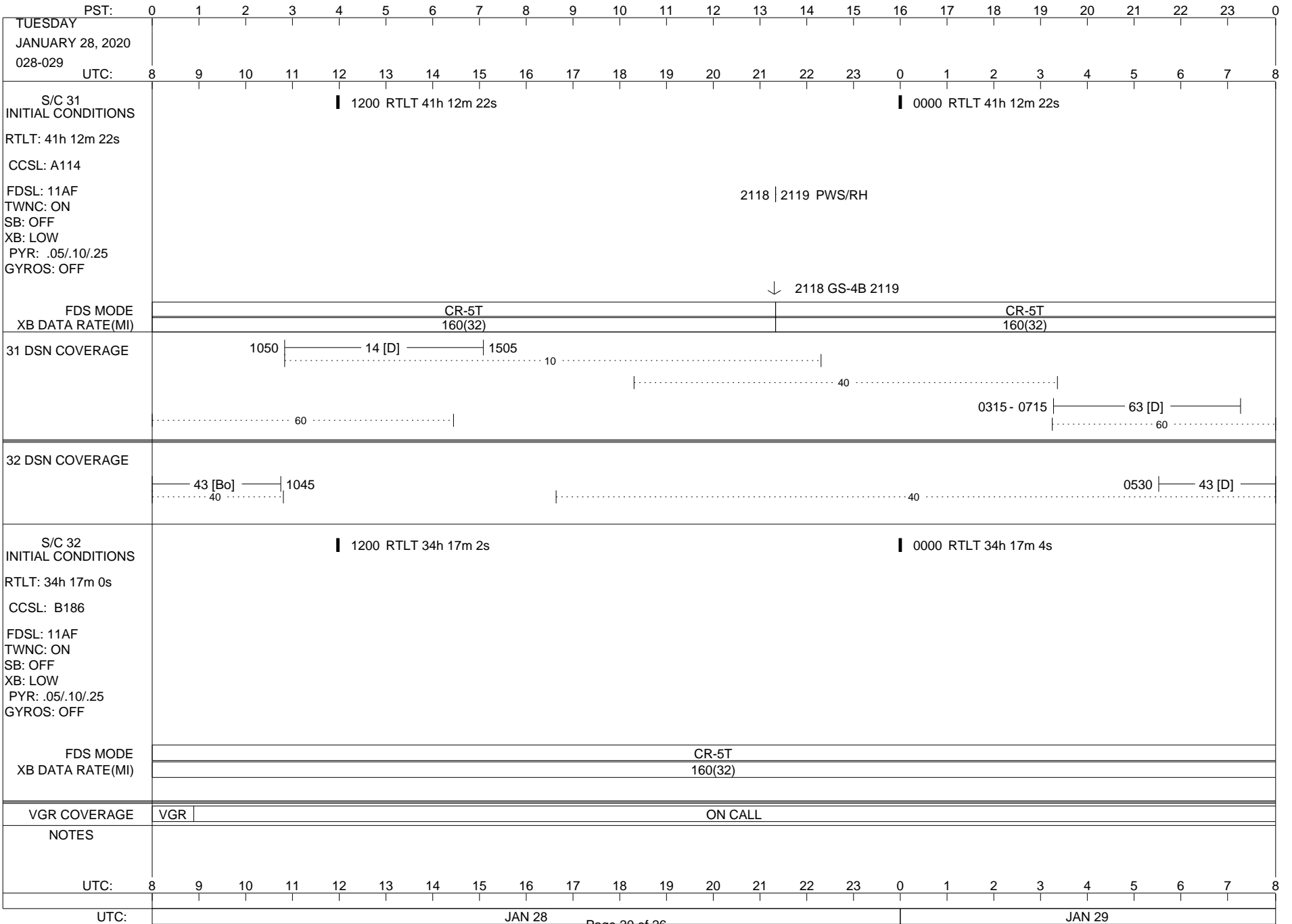
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**LEGEND:**

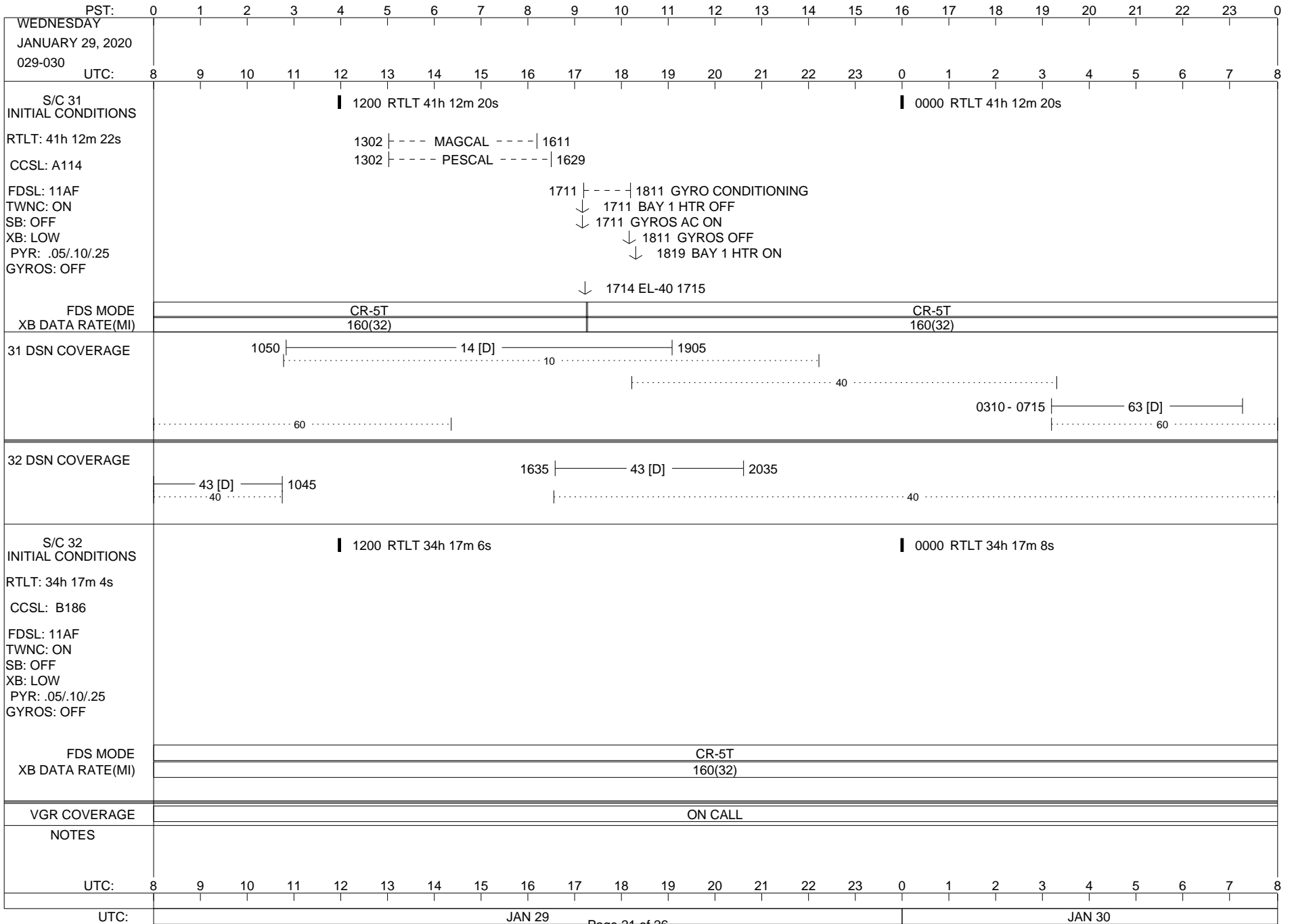
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

02/27/19

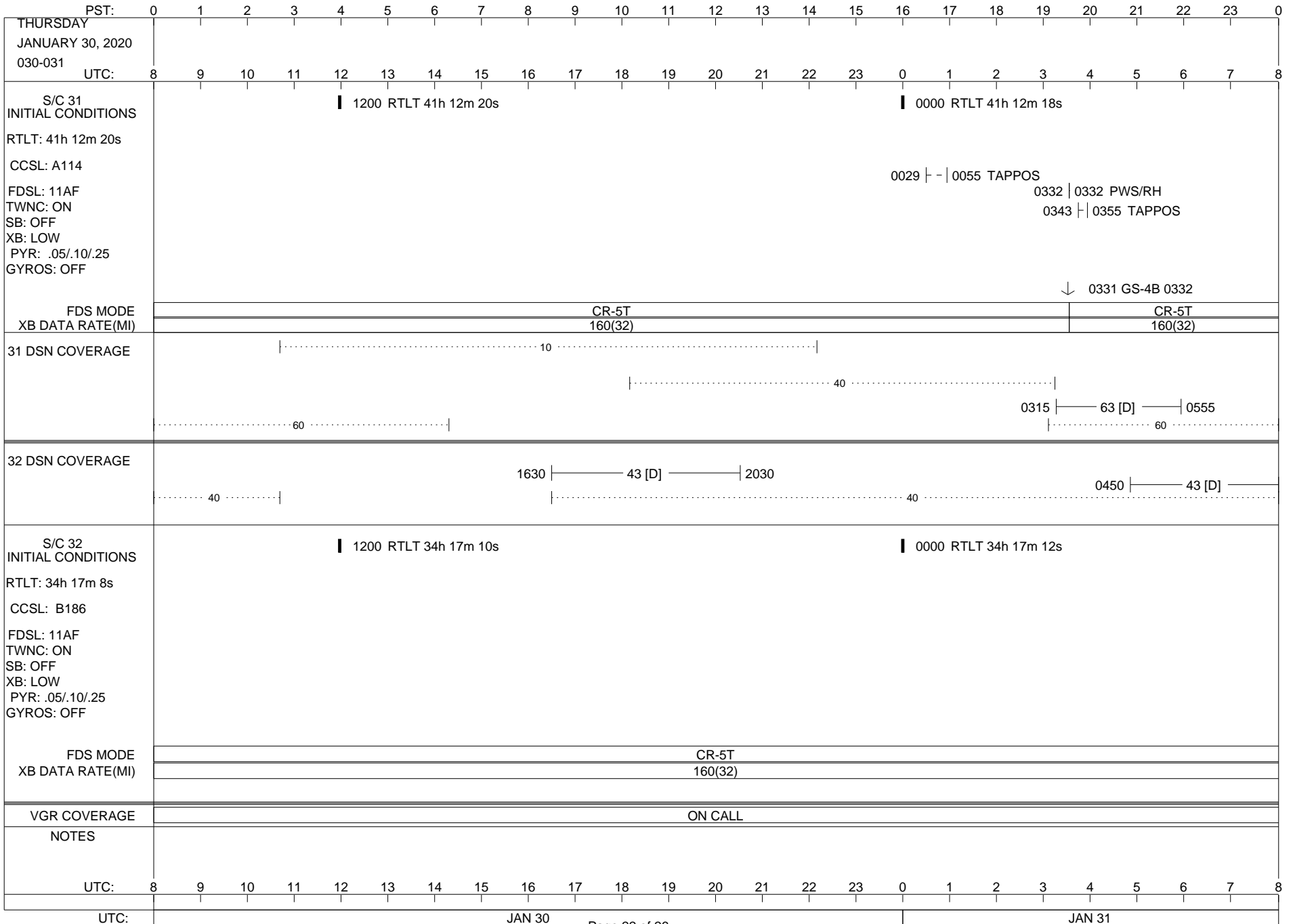
ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

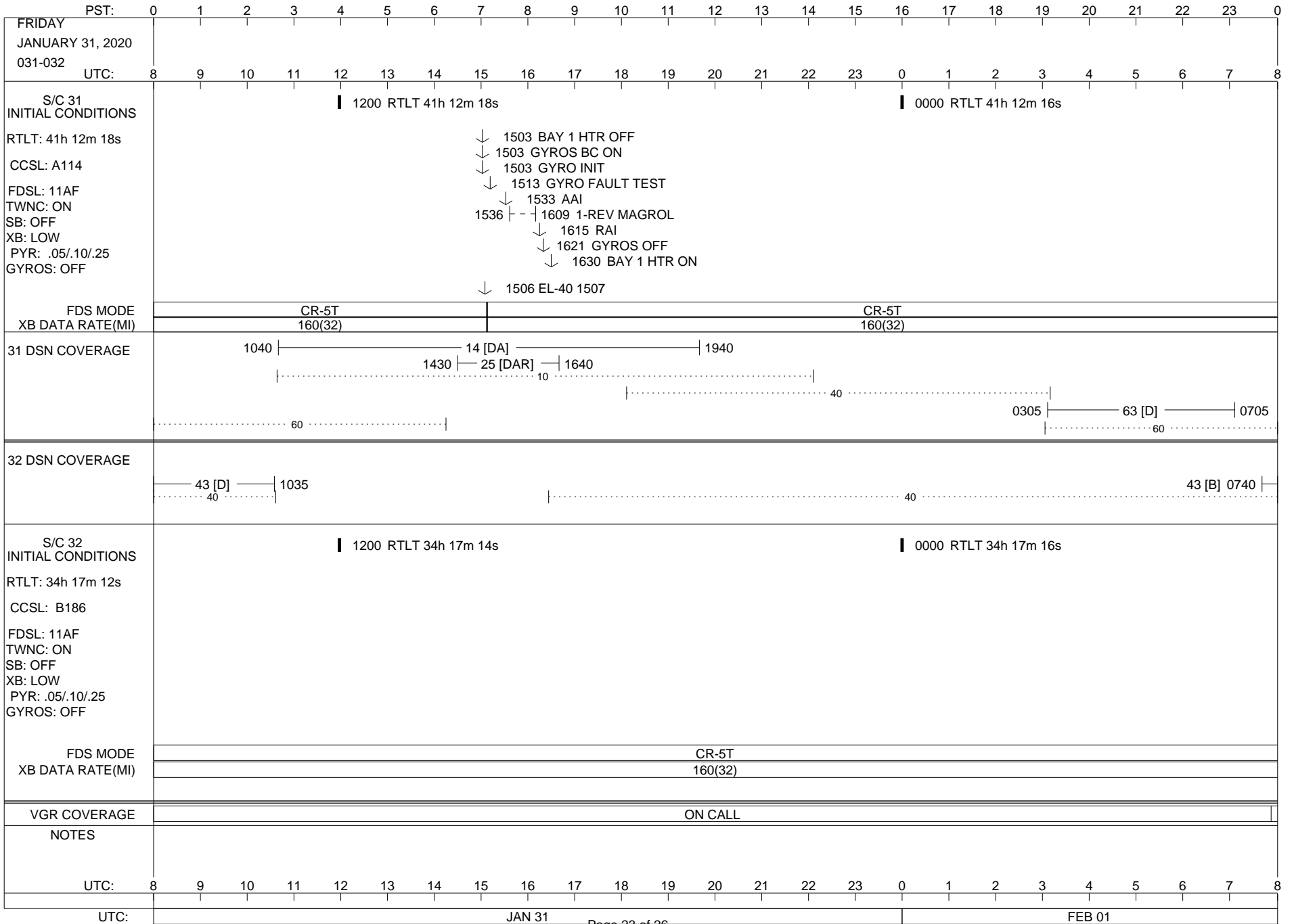


ISSUE DATE: 01/08/20 10:25





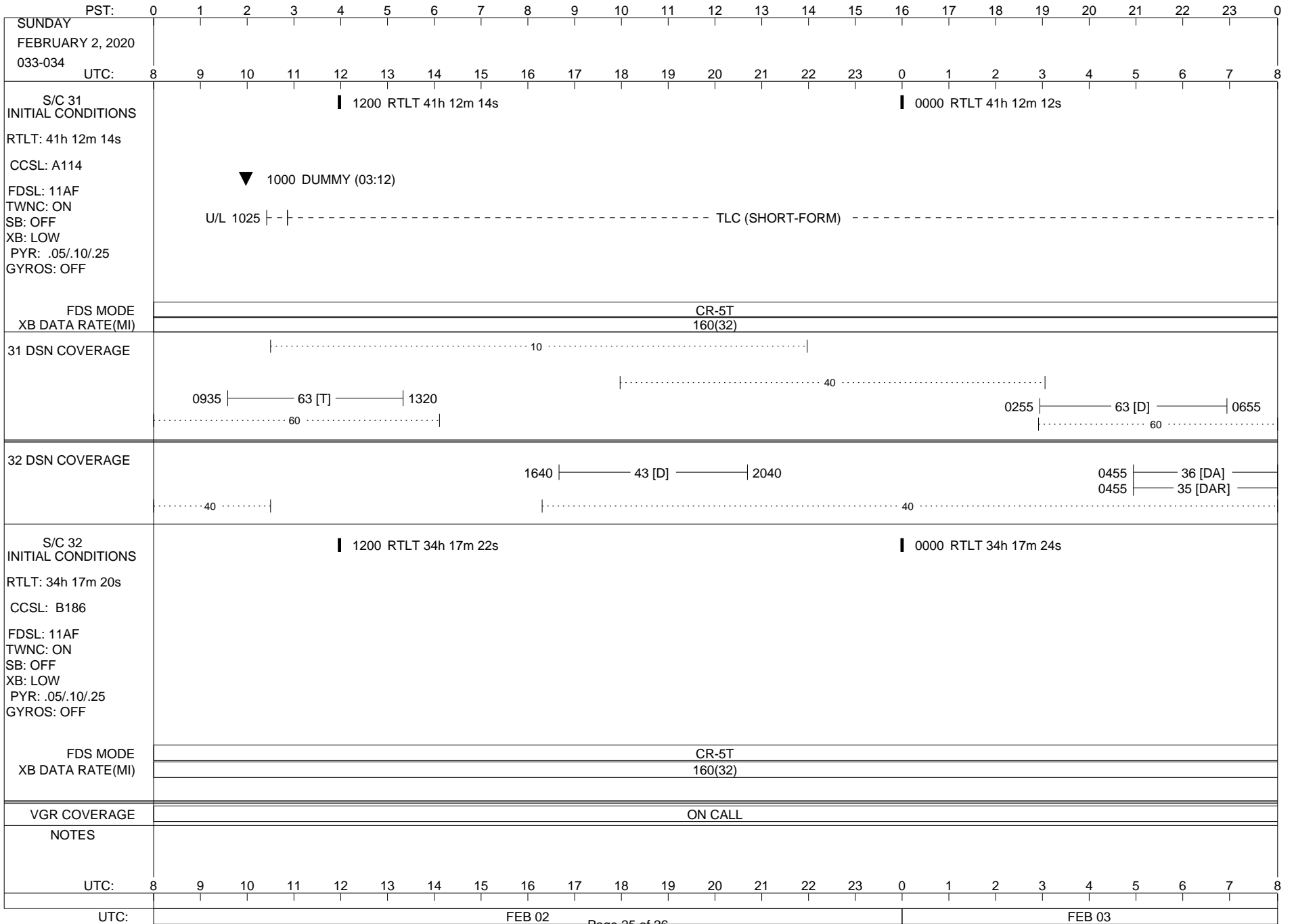
ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

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 1, 2020 032-033	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 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												
													0329   0341 TAPPOS PWS/RH 0631   0632 TAPPOS 0643   0644												
													0631 GS-4B 0632 ↓												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	.....  10 .....												.....  40 .....												
	.....  60 .....												.....  60 .....												
32 DSN COVERAGE	43 [B]   1030				1620   1710 43 [D]				2300   43 [DAR]   0200				2300   36 [DA]   0200												
	.....  40 .....				.....  40 .....				.....  40 .....				.....  40 .....												
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												
	▼ 0852 DUMMY (5 MIN BRACKETED 19:10)																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	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 01												FEB 02												

ISSUE DATE: 01/08/20 10:25



ISSUE DATE: 01/08/20 10:25

