

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: November 24, 2021

For the Period: 11/25/21 to 12/20/21 (21/329 – 21/354)



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

LEGEND:

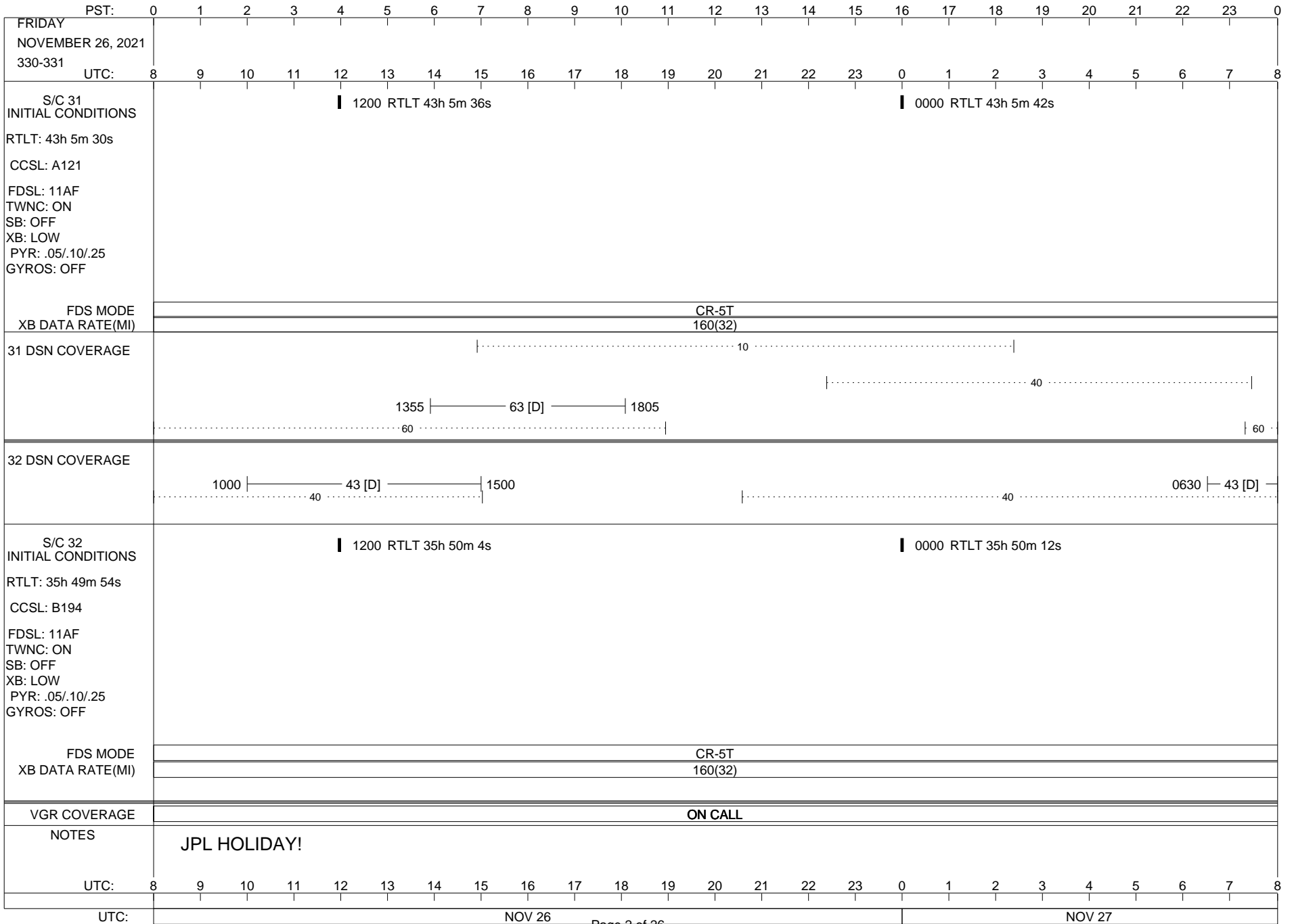
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- * = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U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

02/27/19

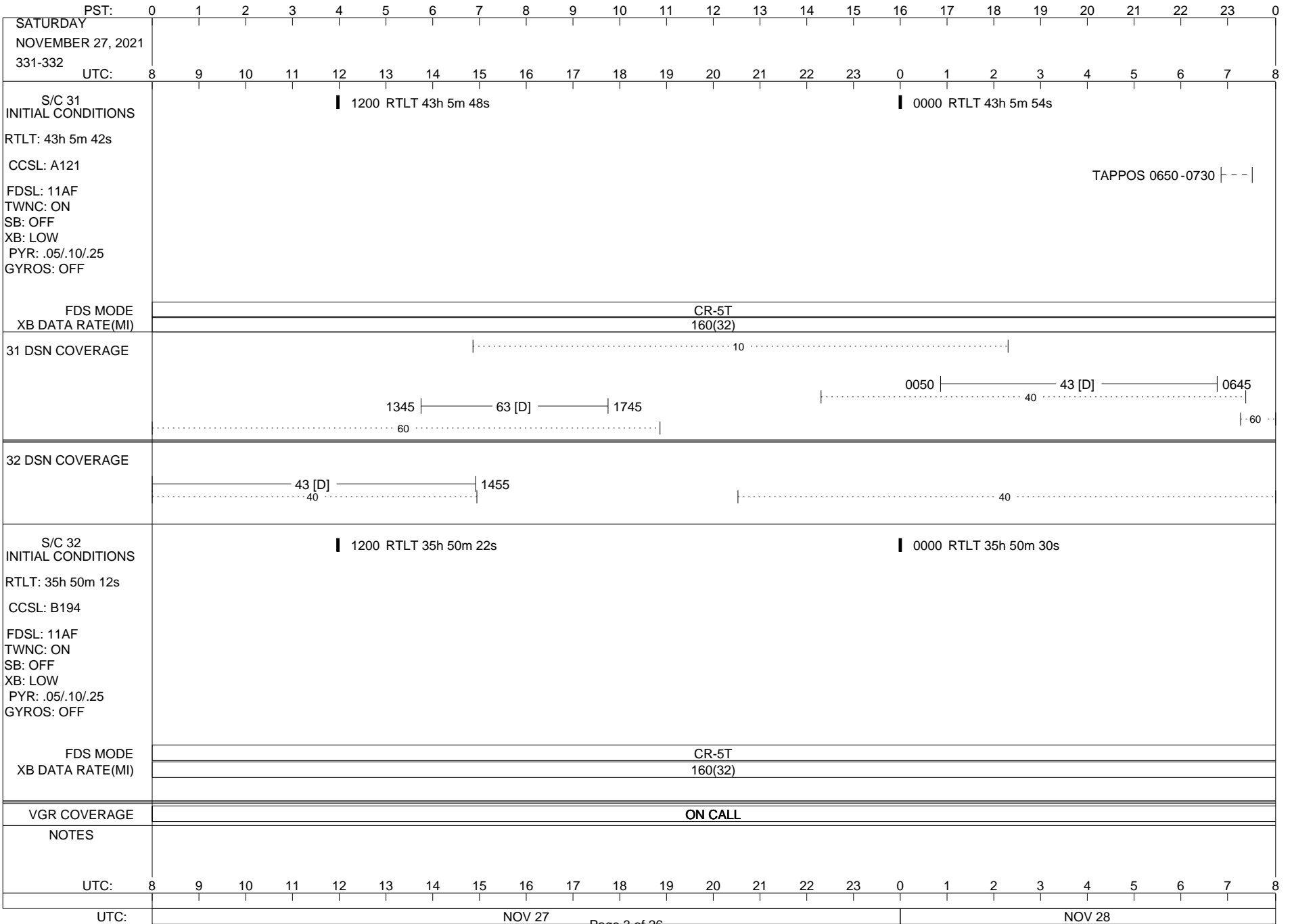
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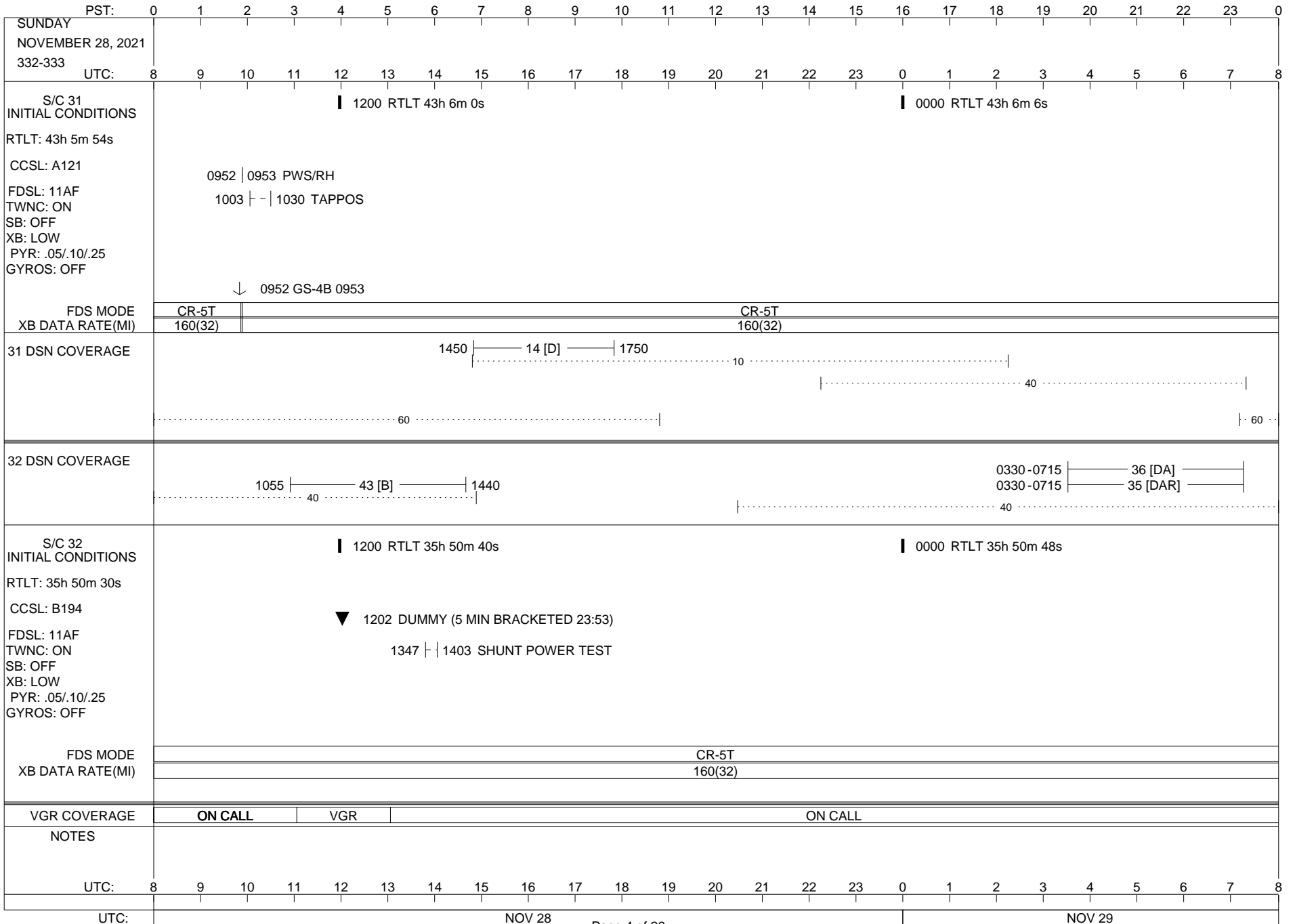
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UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 43h 5m 16s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 5m 24s												0000 RTLT 43h 5m 30s												
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 RTLTL: 35h 49m 36s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 49m 44s												0000 RTLT 35h 49m 54s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												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
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ISSUE DATE: 12/01/21 15:59



ISSUE DATE: 12/01/21 15:59



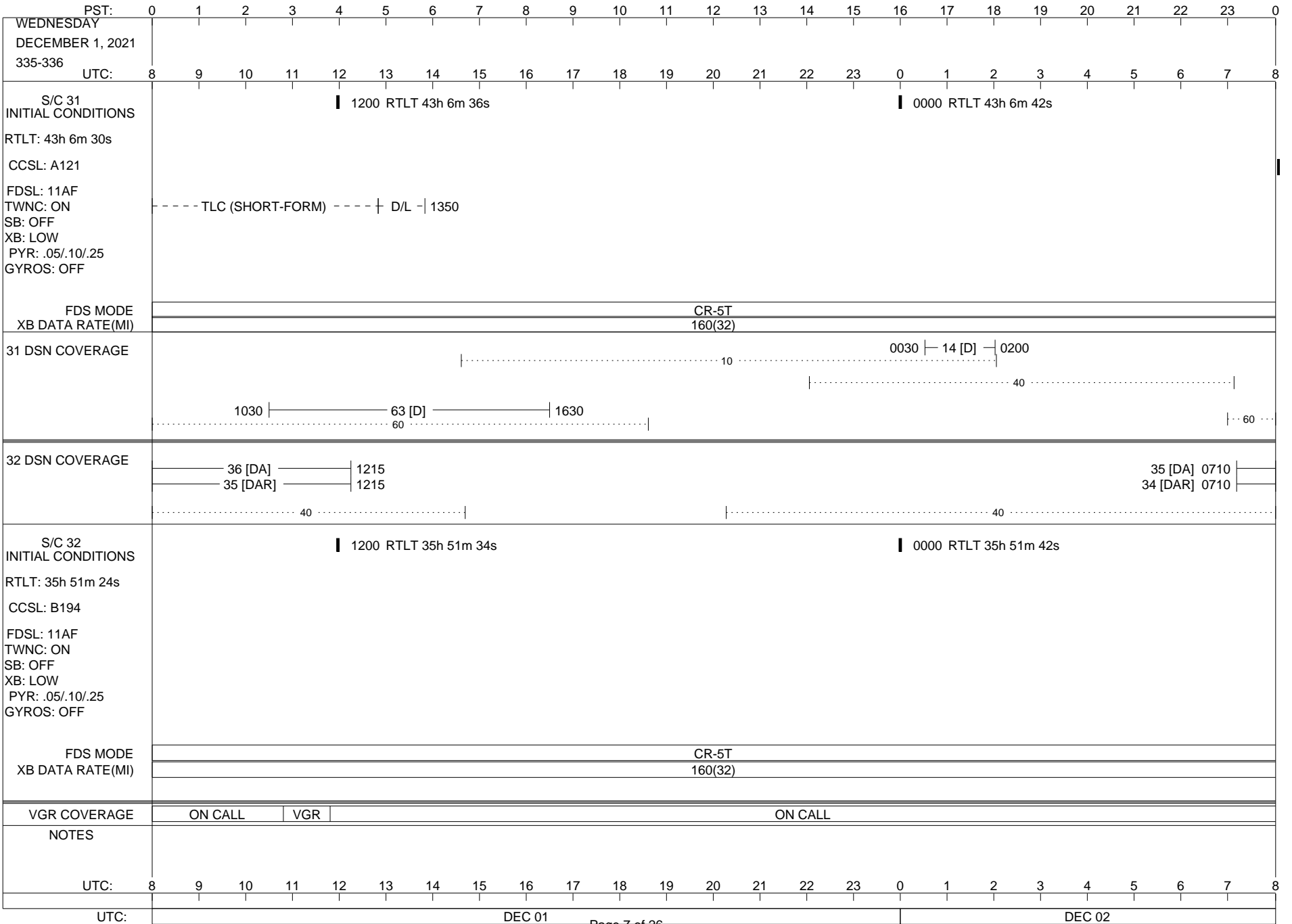


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S/C 31 INITIAL CONDITIONS RTLTL: 43h 6m 6s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 6m 12s												0000 RTLTL 43h 6m 18s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1500 |-----| 14 [T] |-----| 1925												10 .....|-----| 40 .....|-----| 63 [D] 0710 |-----| 60 ..												
32 DSN COVERAGE	40 .....|-----|												0225 |-----| 36 [DAR] |-----| 0225 |-----| 34 [DA] |-----| .....|-----| 40 .....|-----|												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 50m 48s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 50m 58s												0000 RTLTL 35h 51m 6s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL								
NOTES	↓ 0251 BAY 1 HTR OFF ↓ 0251 GYROS AC ON 0251 ---- 0351 CONDITIONING ↓ 0351 GYROS OFF ↓ 0359 BAY 1 HTR ON ↓ 0253 EL-40 0254																								
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:	NOV 29												NOV 30												

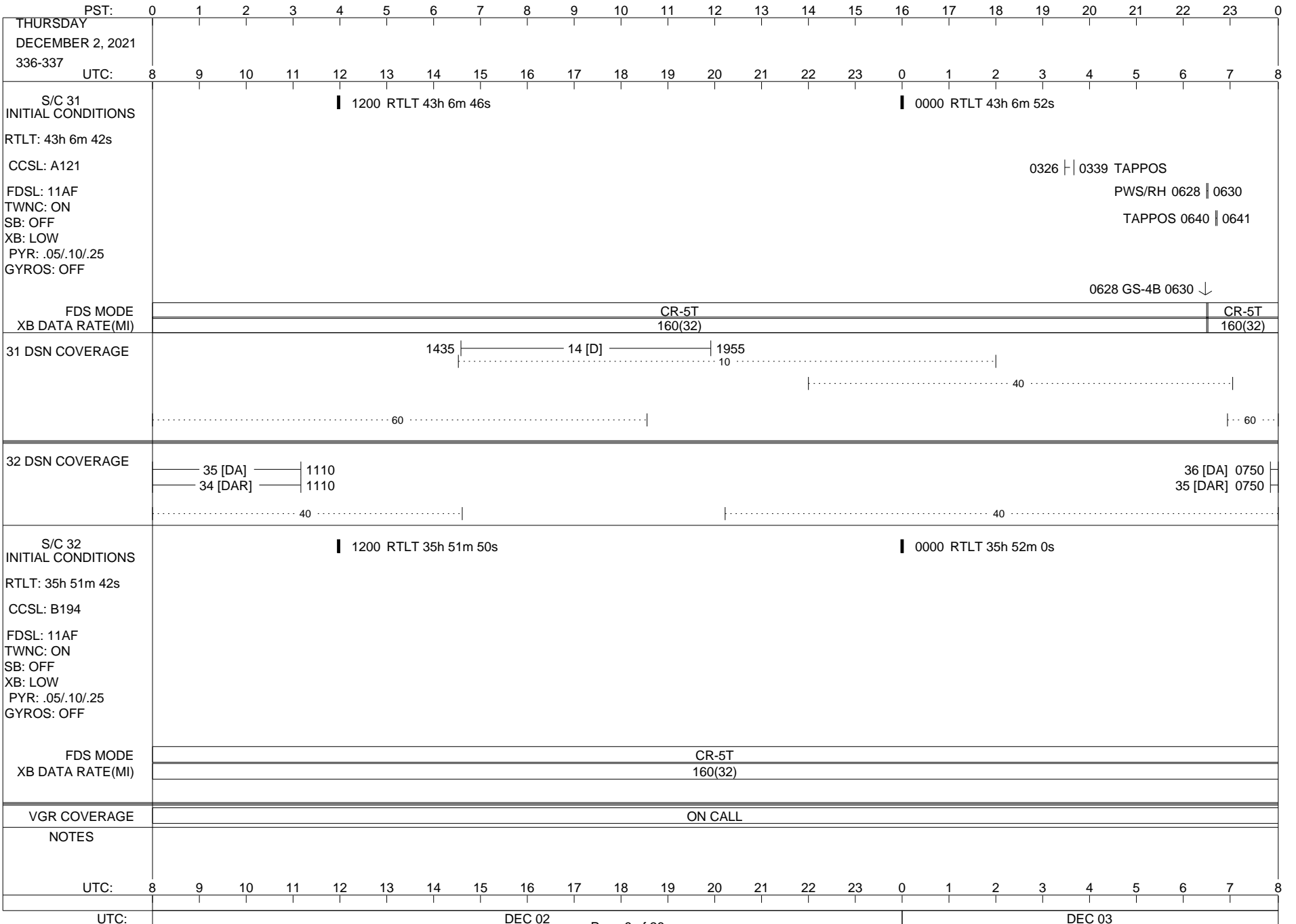
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TUESDAY NOVEMBER 30, 2021 334-335	
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8	
S/C 31 INITIAL CONDITIONS RTLT: 43h 6m 18s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 6m 24s 0000 RTLT 43h 6m 30s TLC (SHORT-FORM) 0015 | 0016 PWS/RH ↓ 0015 GS-4B 0016 FDS MODE CR-5T CR-5T XB DATA RATE(MI) 160(32) 160(32)
31 DSN COVERAGE	..... 10 40 63 [D] | 1110 60 ..... | ..... 60
32 DSN COVERAGE	36 [DAR] | 1020 34 [DA] | 1020 40 ..... | ..... 40 0635 | 36 [DA] 0635 | 35 [DAR]
S/C 32 INITIAL CONDITIONS RTLT: 35h 51m 6s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 51m 16s 0000 RTLT 35h 51m 24s 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: NOV 30 DEC 01	

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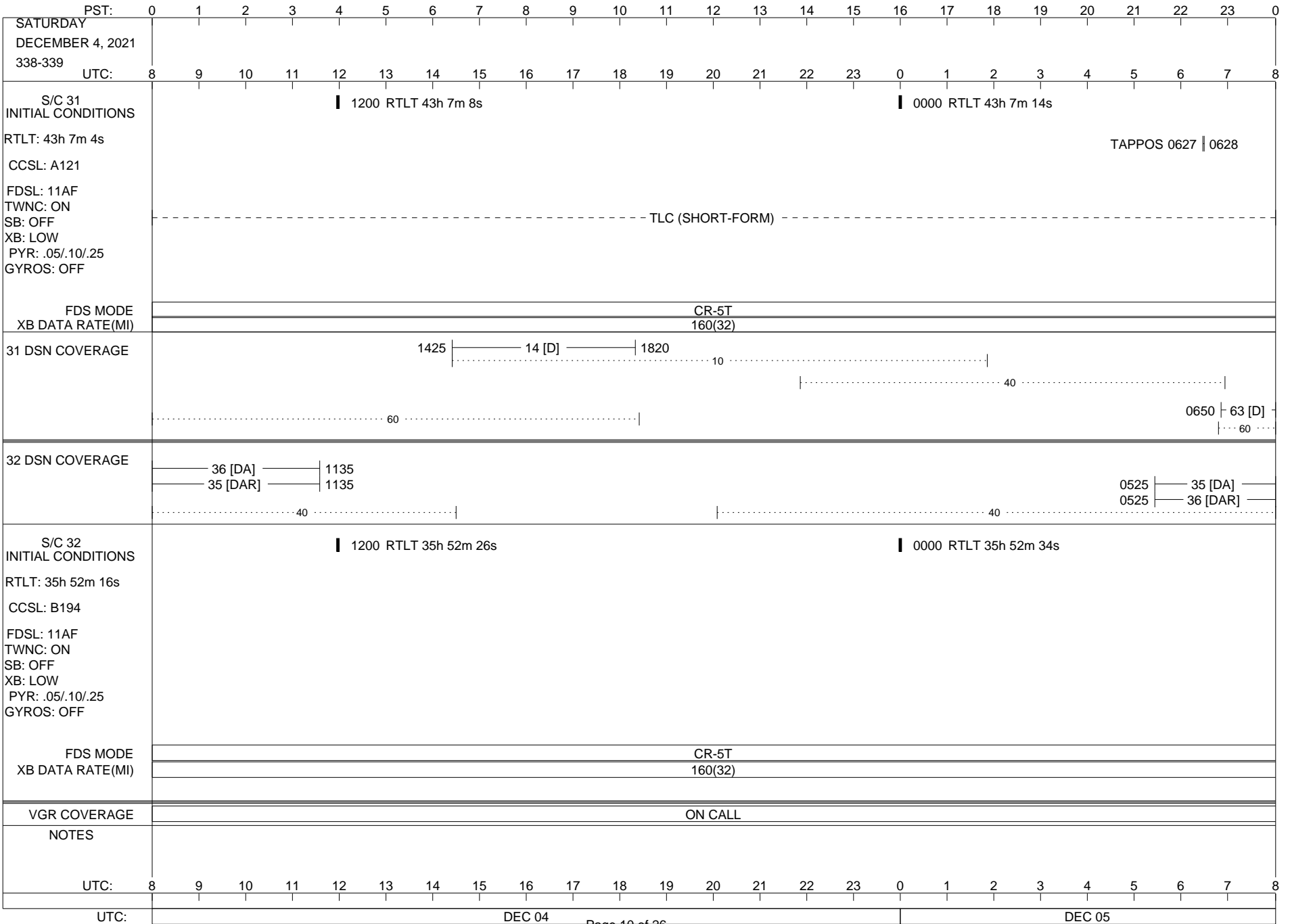
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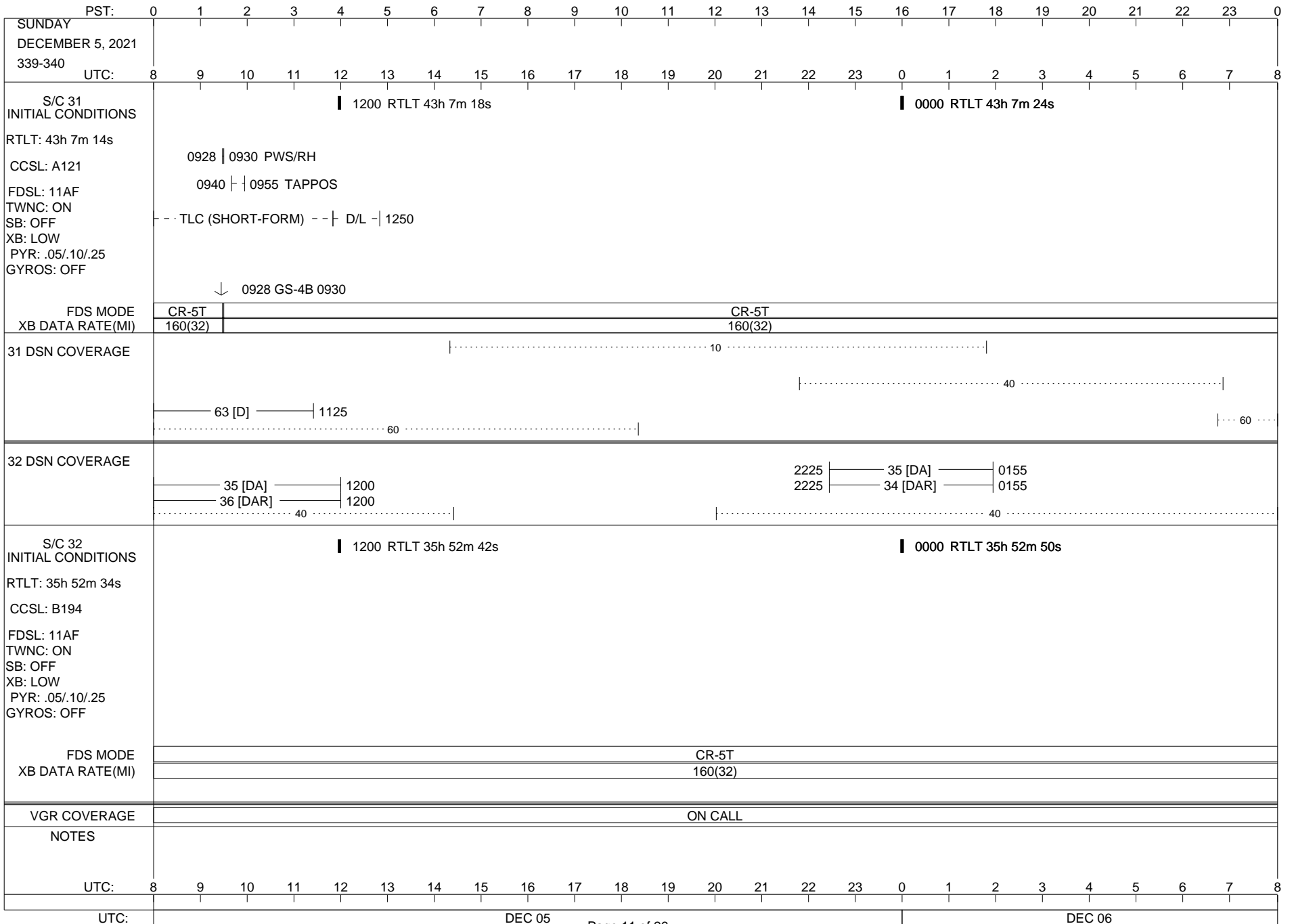


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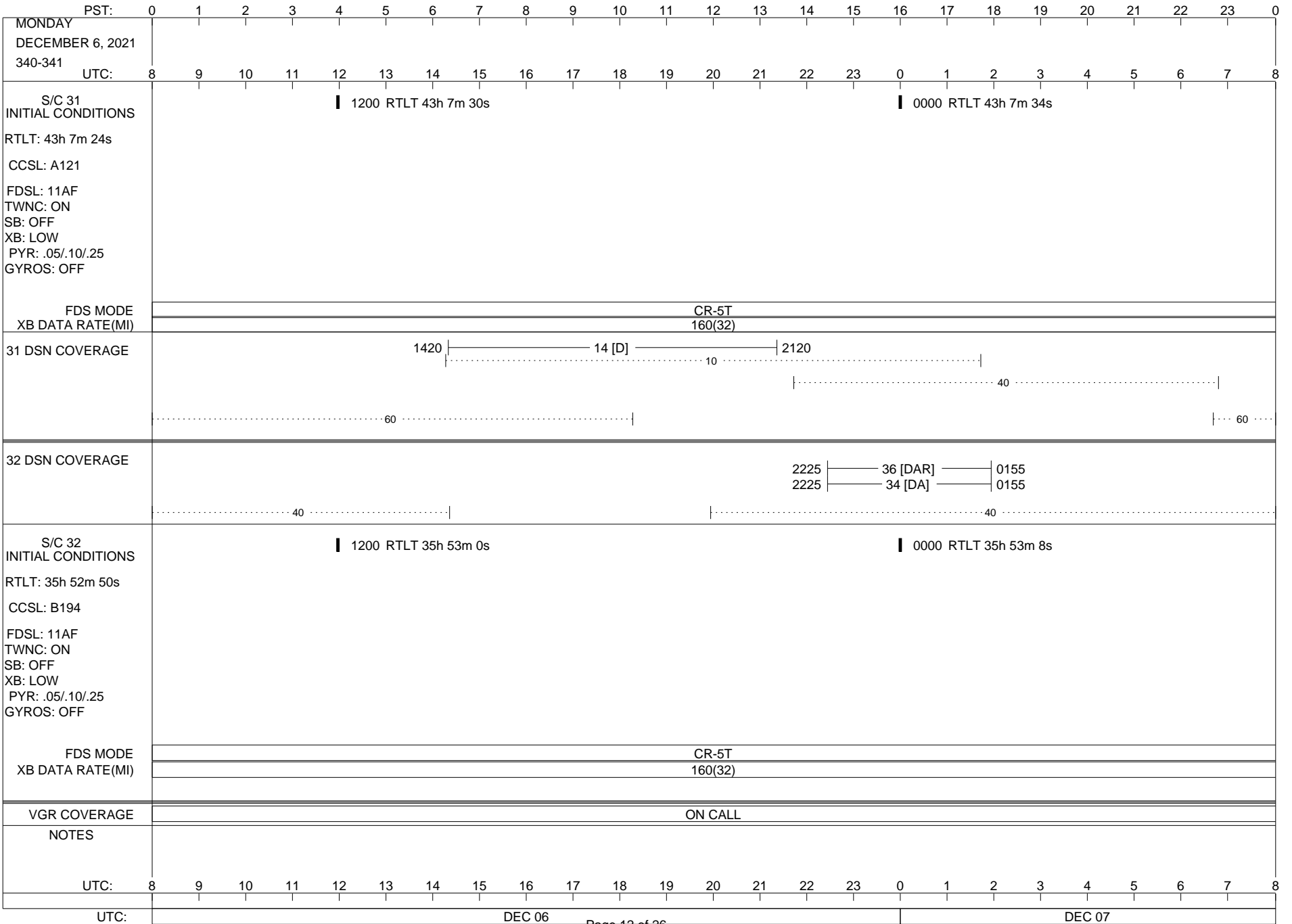
FRIDAY DECEMBER 3, 2021 337-338		PST: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0																																			
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8																																					
S/C 31 INITIAL CONDITIONS RTLT: 43h 6m 52s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 43h 6m 58s												0000 RTLT 43h 7m 4s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																			
31 DSN COVERAGE		1430 |-----| 14 [T1] |-----| 1835 |-----| 10 .....| |-----| 40 .....| |-----| 60 .....|																																			
32 DSN COVERAGE		36 [DA] |-----| 1205 35 [DAR] |-----| 1205 |-----| 40 .....| |-----| 40 .....| 0435 |-----| 36 [DA] |-----| 0435 |-----| 35 [DAR] |-----|																																			
S/C 32 INITIAL CONDITIONS RTLT: 35h 52m 0s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 35h 52m 8s												0000 RTLT 35h 52m 16s																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)																																			
VGR COVERAGE		ON CALL												VGR												ON CALL											
NOTES		[1] DSS-14 U/L PIT																																			
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:		DEC 03												DEC 04																							

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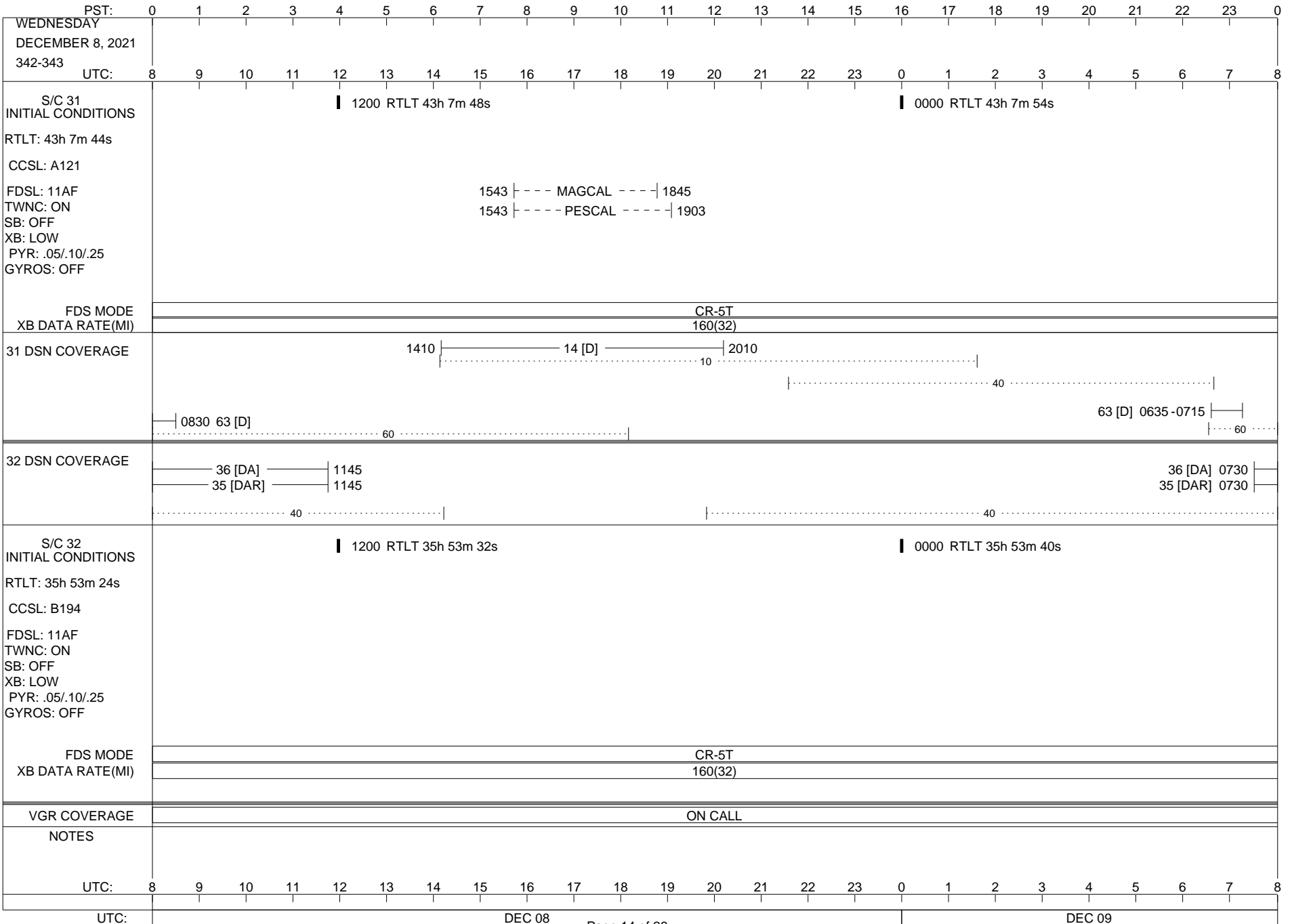
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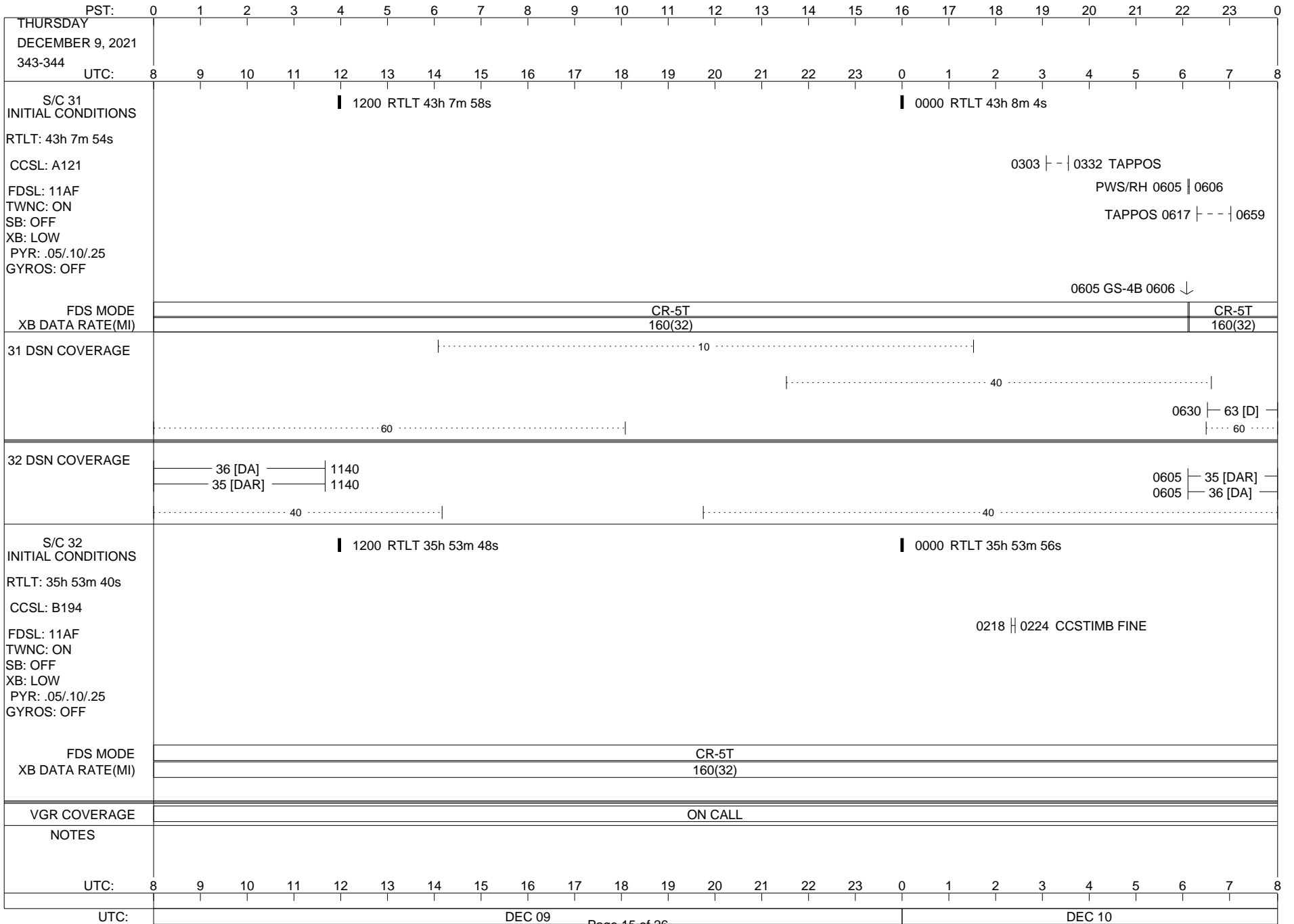
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TUESDAY DECEMBER 7, 2021 341-342																												
S/C 31 INITIAL CONDITIONS RTLTL: 43h 7m 34s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 7m 40s												0000 RTLT 43h 7m 44s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE	<p>1415 | 14 [D] | 1545</p> <p>..... 10</p> <p>..... 40</p> <p>..... 60</p> <p>..... 0635 | 63 [D] |</p> <p>..... 60</p>																											
32 DSN COVERAGE	<p>0930 | 35 [DA] | 1140</p> <p>0930 | 36 [DAR] | 1140</p> <p>..... 40</p> <p>..... 40</p> <p>..... 36 [DA] 0745 |</p> <p>..... 35 [DAR] 0745 |</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 35h 53m 8s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 53m 16s												0000 RTLT 35h 53m 24s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												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			
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ISSUE DATE: 12/01/21 15:59



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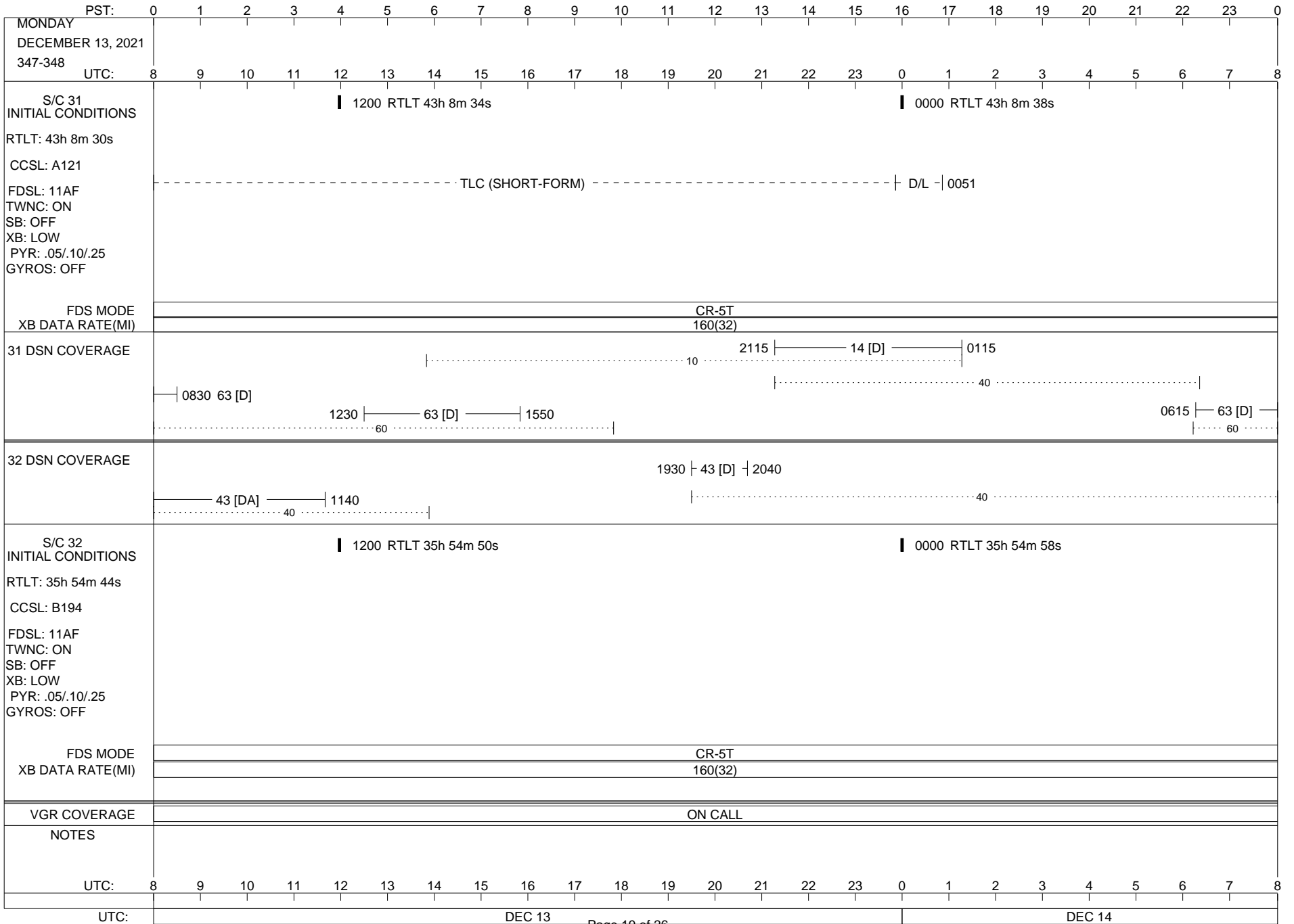
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S/C 31 INITIAL CONDITIONS RTLT: 43h 8m 4s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				█ 1200 RTLT 43h 8m 8s											█ 0000 RTLT 43h 8m 12s														
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)																
31 DSN COVERAGE		1405 |----- 14 [D] -----| 1705 |----- 10 -----| |----- 40 -----|											63 [D] |----- 1030 |----- 60 -----|																
32 DSN COVERAGE		35 [DAR] |----- 1105 36 [DA] |----- 1105 |----- 40 -----|											2345 |----- 43 [B] -----| 0345 |----- 40 -----|																
S/C 32 INITIAL CONDITIONS RTLT: 35h 53m 56s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				█ 1200 RTLT 35h 54m 4s											█ 0000 RTLT 35h 54m 12s														
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:		DEC 10											DEC 11																

ISSUE DATE: 12/01/21 15:59

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 DECEMBER 11, 2021 345-346																									
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: 43h 8m 12s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 43h 8m 16s												█ 0000 RTLT 43h 8m 20s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1400 |----- 14 [D] -----| 1730												0215 |----- 43 [T] -----| 0615												
	..... 60 .....												..... 40											
	..... 60												0620 | 63 [D] | ..... 60											
32 DSN COVERAGE	1045 |----- 43 [D] -----| 1330												0700 | 43 [D] | .....												
	..... 40 .....												..... 40											
S/C 32 INITIAL CONDITIONS RTLT: 35h 54m 12s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 35h 54m 20s												█ 0000 RTLT 35h 54m 28s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												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:	DEC 11												Page 17 of 26						DEC 12						

ISSUE DATE: 12/01/21 15:59

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 DECEMBER 12, 2021 346-347																												
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: 43h 8m 20s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 43h 8m 26s														0000 RTLTL 43h 8m 30s													
----- TLC (SHORT-FORM) -----																												
	0905 | 0906 PWS/RH 0917 | - - - - | 1013 TAPPOS ↓ 0905 GS-4B 0906																											
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														CR-5T 160(32)													
31 DSN COVERAGE	.....|.....10.....|.....|.....40.....|.....|.....0620 | 63 [D] |.....														.....|.....60.....|.....|.....60.....													
32 DSN COVERAGE	.....|.....43 [D] |.....|.....1345.....|.....|.....40.....|.....|.....0345 | 36 [DAR] |.....|.....0645														.....|.....40.....|.....|.....0345 | 43 [DA] |.....													
S/C 32 INITIAL CONDITIONS RTLTL: 35h 54m 28s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 54m 36s														0000 RTLTL 35h 54m 44s													
															PUR=.05/.05/.05 0442↓ ASCAL 0446 | - - | 0518 ROLL=.25 0518 ↓ AACSIN FCP SWAP TABLE NOP 0520↓ 1 SID MRO 0521↓ EL-40 0420↓ ↓ 0523 CR-5T													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)														EL-40 40(30)							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:	DEC 12														Page 18 of 26							DEC 13						

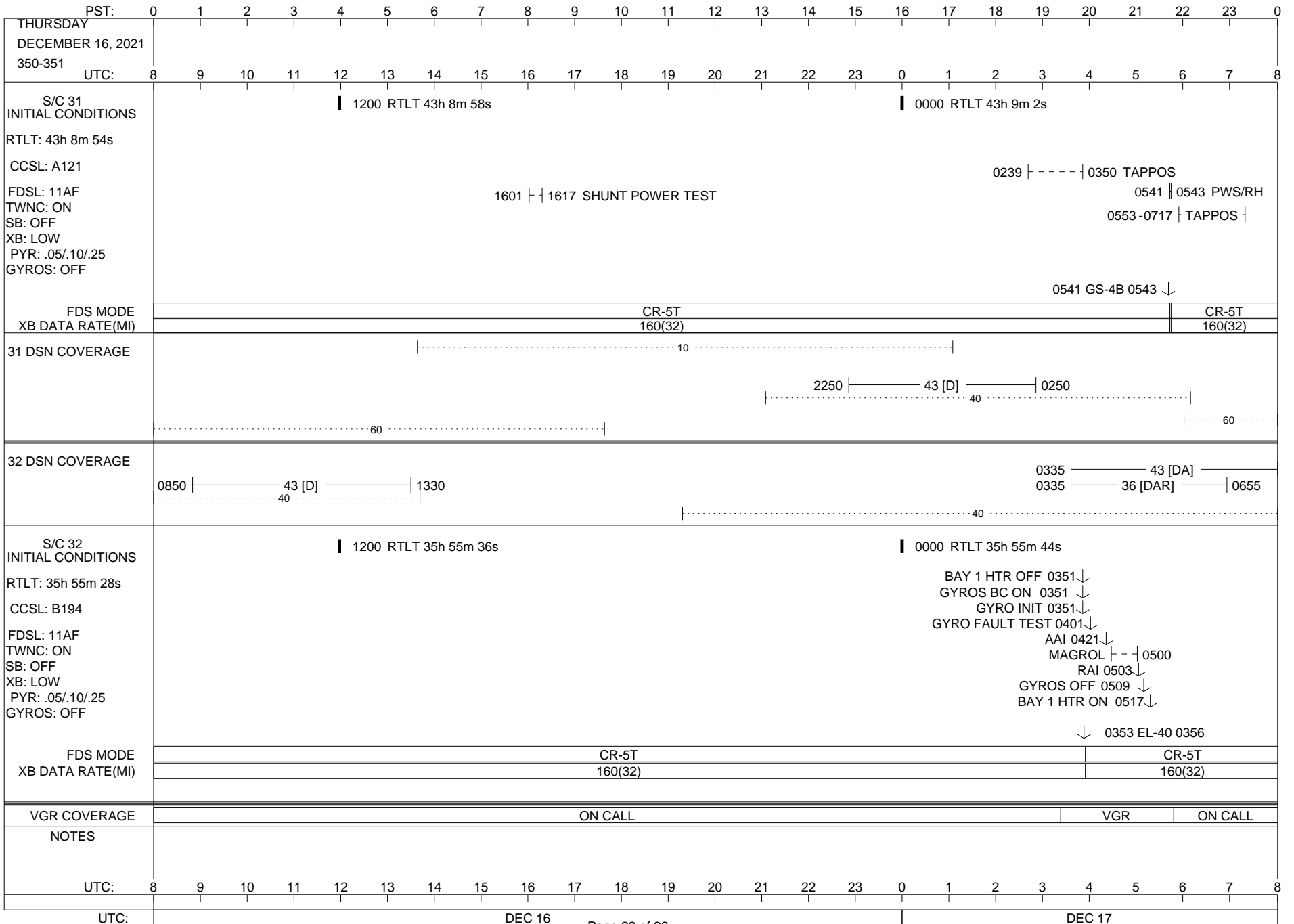


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UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLT: 43h 8m 38s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 8m 42s												0000 RTLT 43h 8m 46s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1345 |----- 14 [D] -----| 1745												10 |----- 40 -----|												
	63 [D] |----- 1000 -----|												60 |----- 60 -----|												
32 DSN COVERAGE	1115 |----- 43 [D] -----| 1350												40 |----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLT: 35h 54m 58s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 55m 6s												0000 RTLT 35h 55m 14s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES													0135 | PLSCAL -| 0318 0135 | --- MAGCAL ---| 0438 0135 | --- PESCAL ---| 0455												
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:	DEC 14												DEC 15												

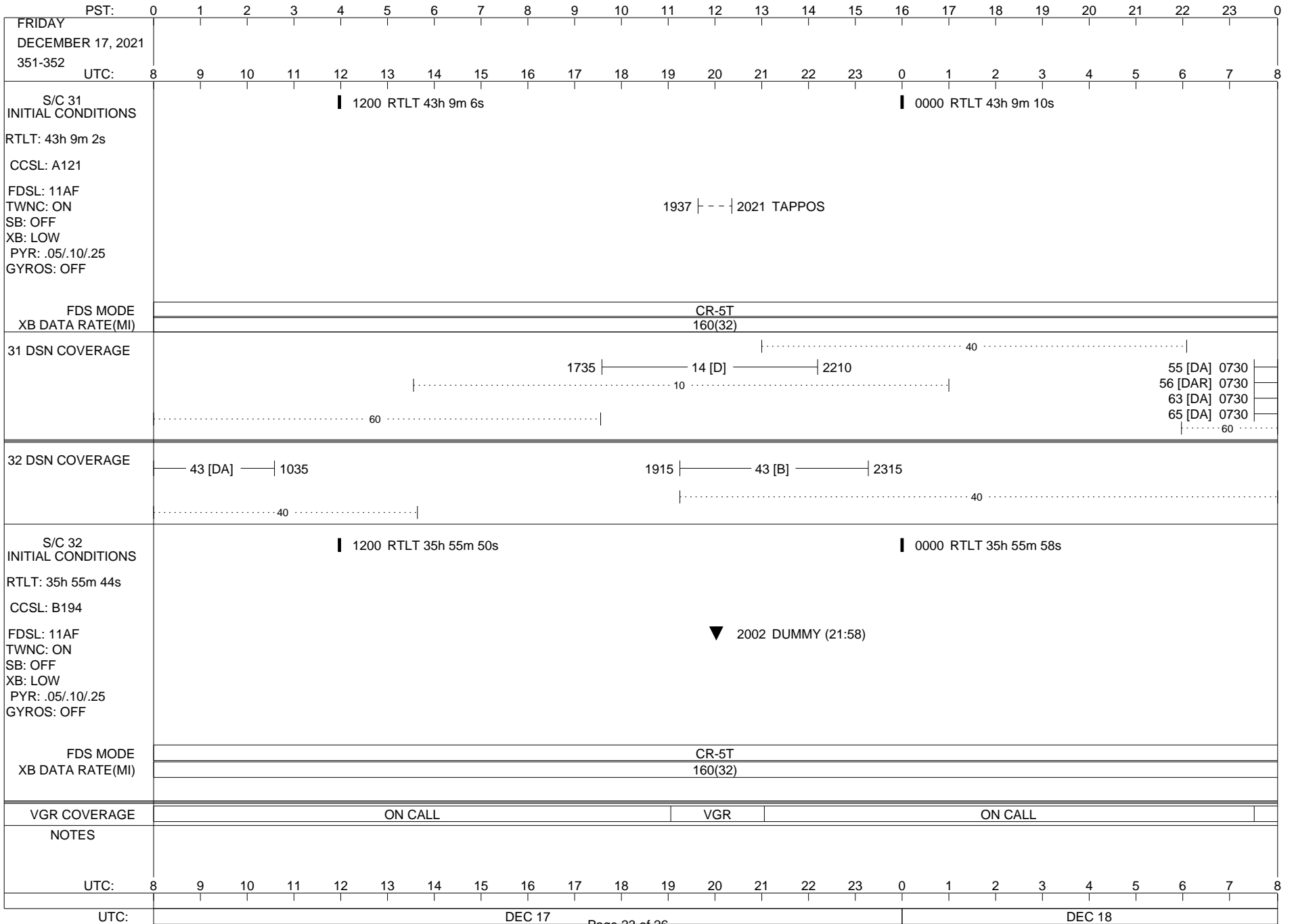
ISSUE DATE: 12/01/21 15:59

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 DECEMBER 15, 2021 349-350																							
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: 43h 8m 46s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 43h 8m 50s 1614 |----- FULL MRO -----| 2242 1614 |-- AACS --| 1759 1800 |--- FDS ---| 2011 2012 | CCSA | 2127 2128 | CCSB | 2242 1559 EL-40 ↓											█ 0000 RTLT 43h 8m 54s ↓ 2243 CR-5T											
FDS MODE	CR-5T											EL-40						CR-5T					
XB DATA RATE(MI)	160(32)											40(30)						160(32)					
31 DSN COVERAGE	1545 |----- 14 [D] -----| 2325 |----- 10 -----| |----- 40 -----| ..... 60 .....| 0605-0715 | 63 [D] | |----- 60 -----|																						
32 DSN COVERAGE	43 [D] |----- 0830-1345 -----| |----- 40 -----| 0020 |----- 43 [D] -----| 0530 |----- 40 -----|																						
S/C 32 INITIAL CONDITIONS RTLT: 35h 55m 14s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	█ 1200 RTLT 35h 55m 22s											█ 0000 RTLT 35h 55m 28s 0137 | PLSCAL -| 0320 0137 |--- MAGCAL ---| 0440 0137 |---- PESCAL ----| 0457											
FDS MODE	CR-5T																						
XB DATA RATE(MI)	160(32)																						
VGR COVERAGE	ON CALL											VGR						ON CALL					
NOTES	[1] S/C 31=EL-40 @ 1559 XB=40(30) [2] S/C 31=CR-5T @ 2243 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:	DEC 15											Page 21 of 26						DEC 16					

ISSUE DATE: 12/01/21 15:59

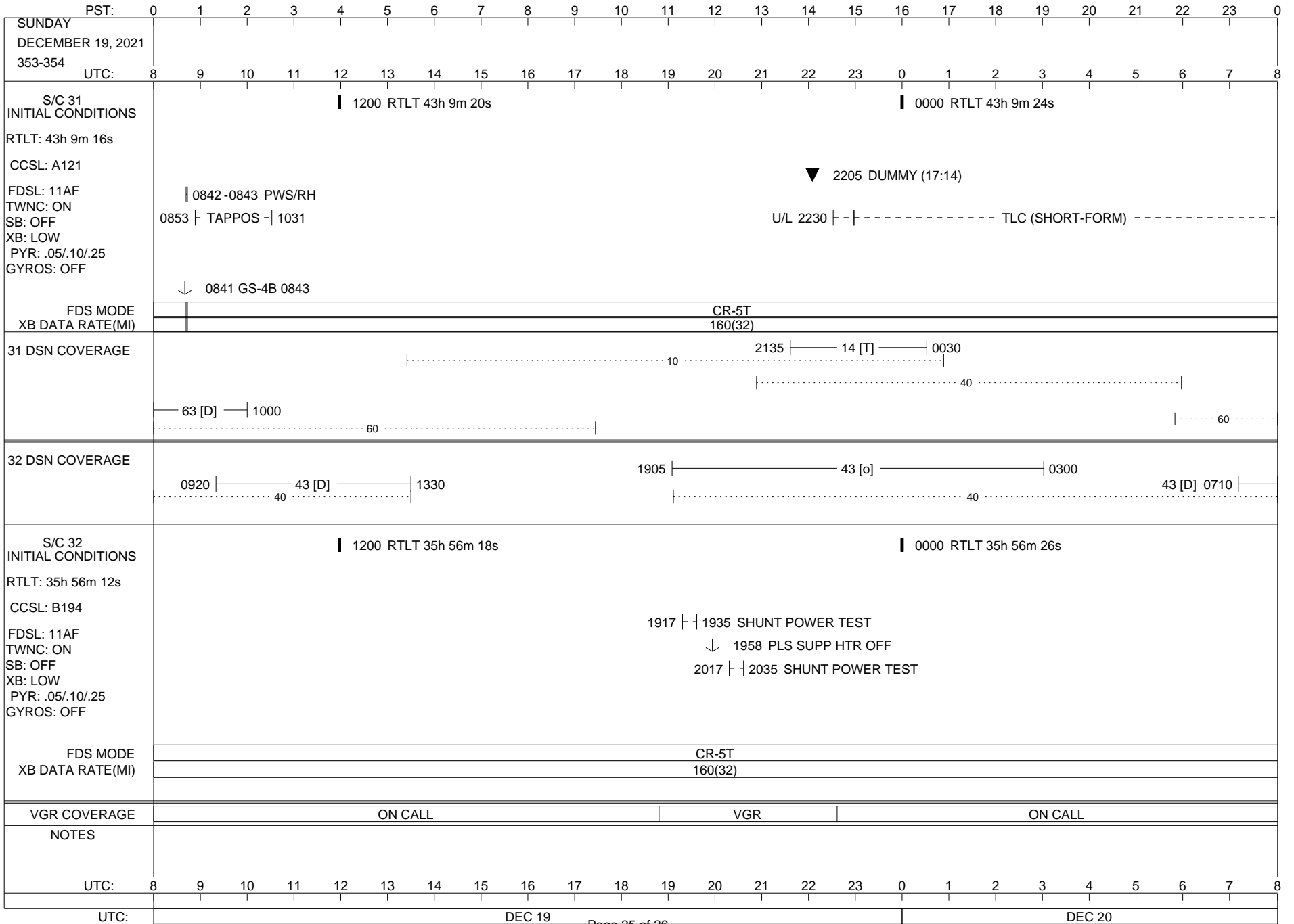


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SATURDAY DECEMBER 18, 2021 352-353	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTL: 43h 9m 10s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 43h 9m 12s 0811 BAY 1 HTR OFF 0815 X/B HI POWER 0823 YAW=.05 PLAYBACK -----|0833-1511 1508 X/B LOW POWER 1512 BAY 1 HTR ON 1520 YAW=.10 1658 | - - | 1738 TAPPOS 0833 PB-14 0833 1511 CR-5T 1511												0000 RTLT 43h 9m 16s 0540 | TAPPOS | 0704												
FDS MODE XB DATA RATE(MI)	PB-14 1.4K(39)												CR-5T 160(32)												
31 DSN COVERAGE	.....|.....10.....|..... 55 [DA] .....|1530 56 [DAR] .....|1530 63 [DA] .....|1530 65 [DA] .....|1530 .....60.....|.....												.....40.....|..... 0600 | 63 [D] | .....60.....|.....												
32 DSN COVERAGE	.....40.....|..... 1910 | 43 [D] | 2310 .....40.....|.....																								
S/C 32 INITIAL CONDITIONS RTL: 35h 55m 58s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 35h 56m 4s												0000 RTLT 35h 56m 12s												
FDS MODE XB DATA RATE(MI)													CR-5T 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:	DEC 18												DEC 19												

ISSUE DATE: 12/01/21 15:59



ISSUE DATE: 12/01/21 15:59

	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 DECEMBER 20, 2021 354-355	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: 43h 9m 24s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																					
		----- TLC (SHORT-FORM) -----																									
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE		2130 | 14 [D] | 2230																									
		..... 60																								
32 DSN COVERAGE		43 [D] | 0940 1930 | 43 [D] | 2040																									
S/C 32 INITIAL CONDITIONS RTLTL: 35h 56m 26s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200																					
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:	DEC 20												DEC 21													