

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)



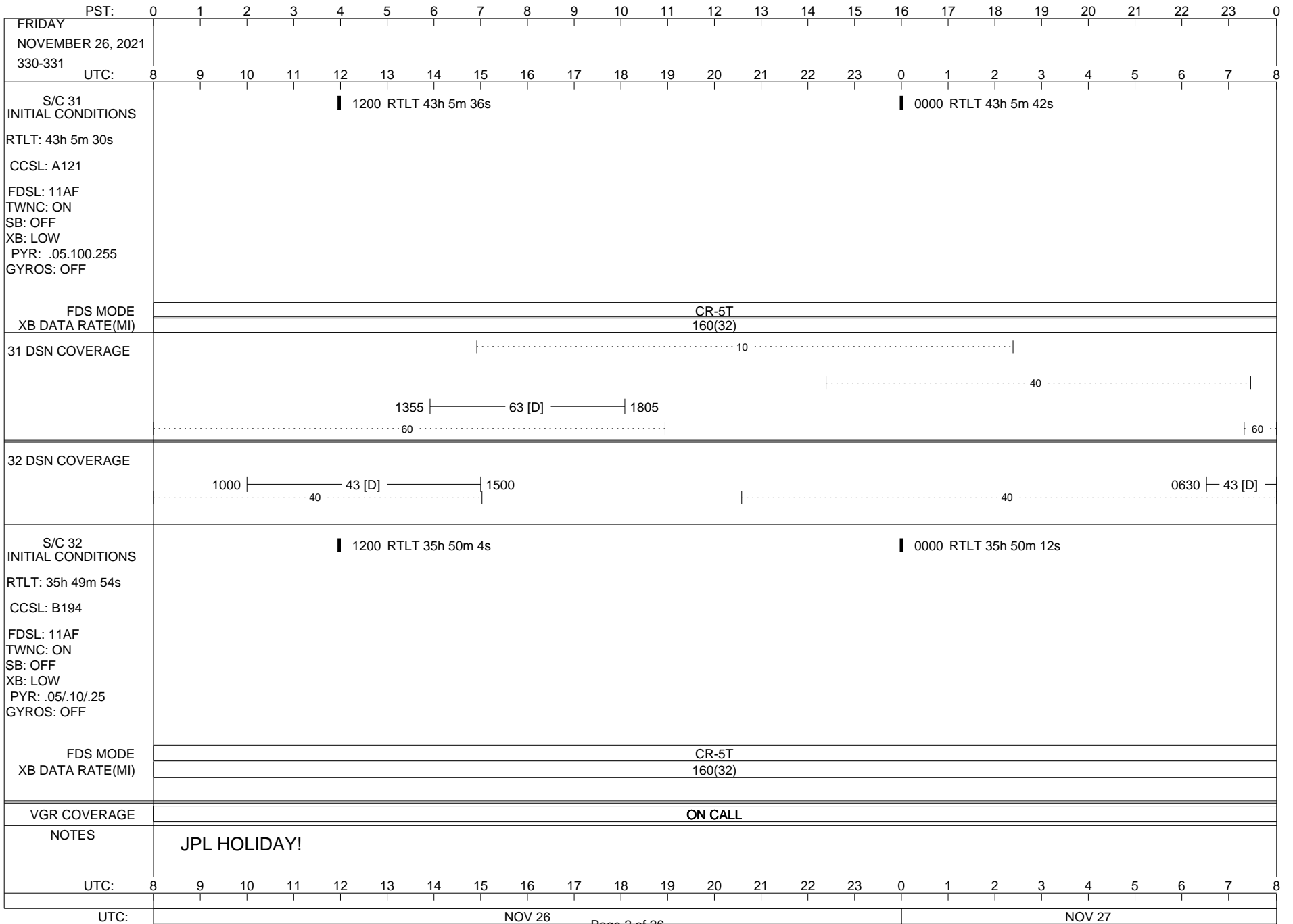
Posted at <https://voyager.jpl.nasa.gov/mission/status/>

LEGEND:

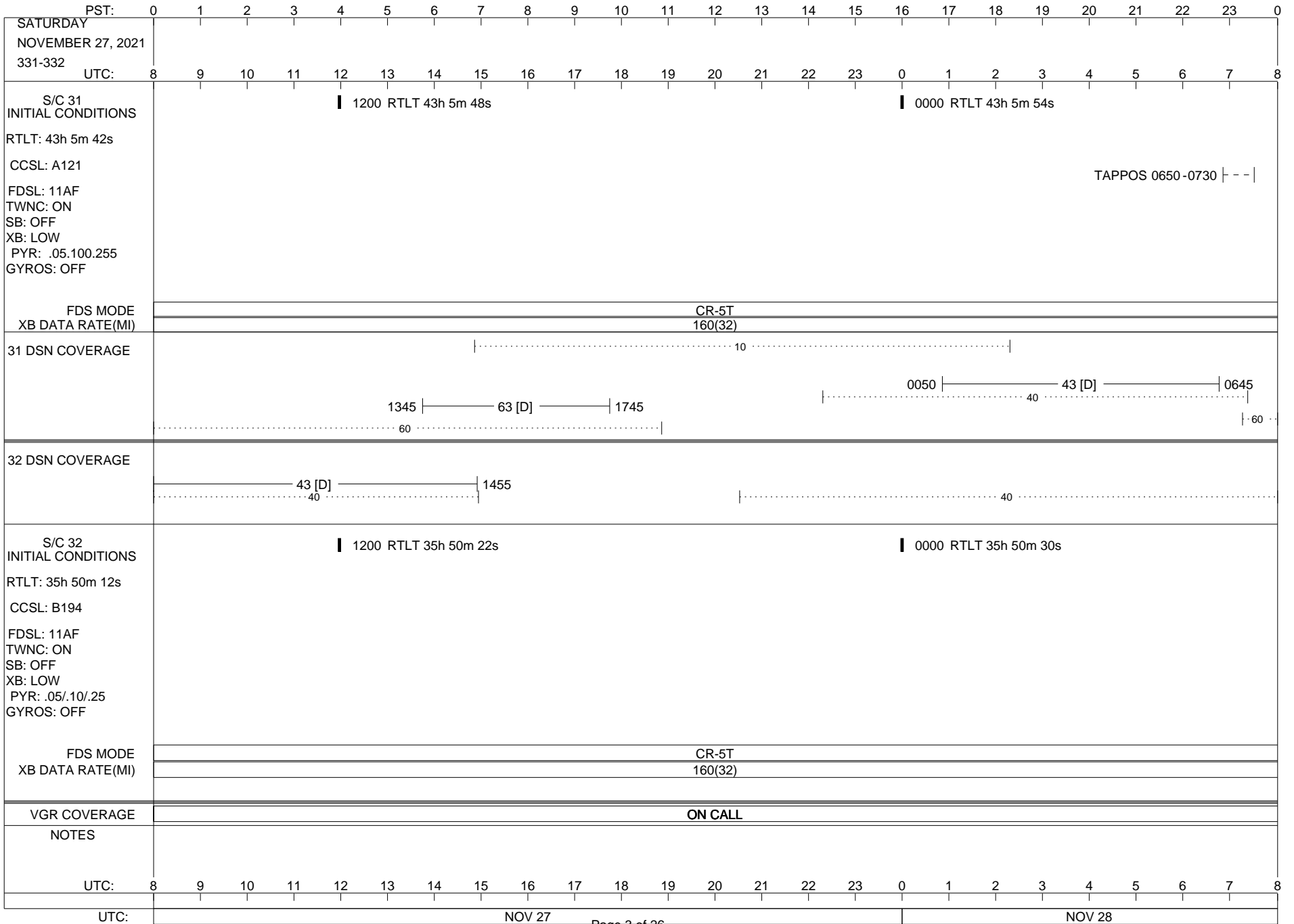
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- * = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U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

02/27/19

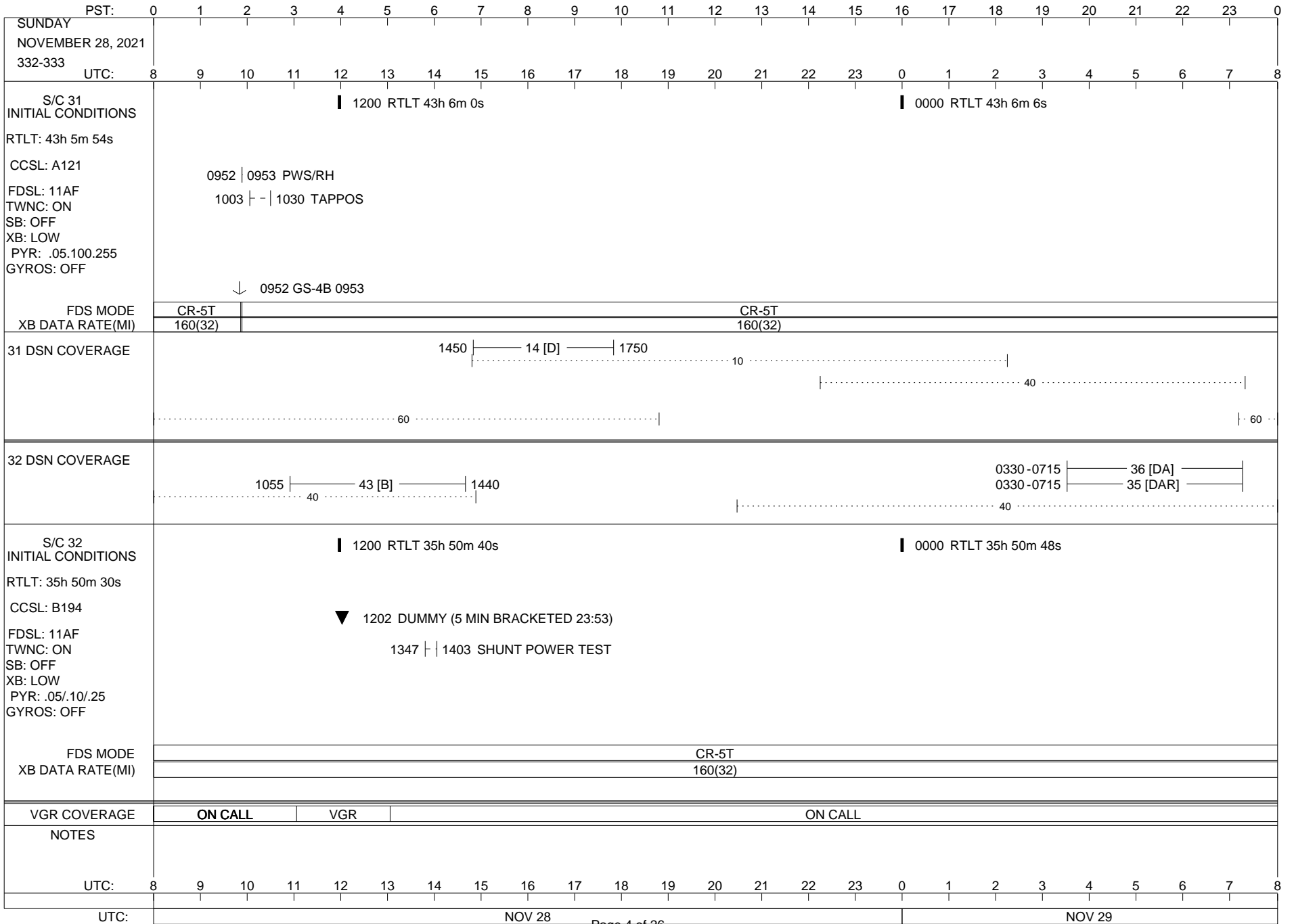
ISSUE DATE: 11/30/21 20:14



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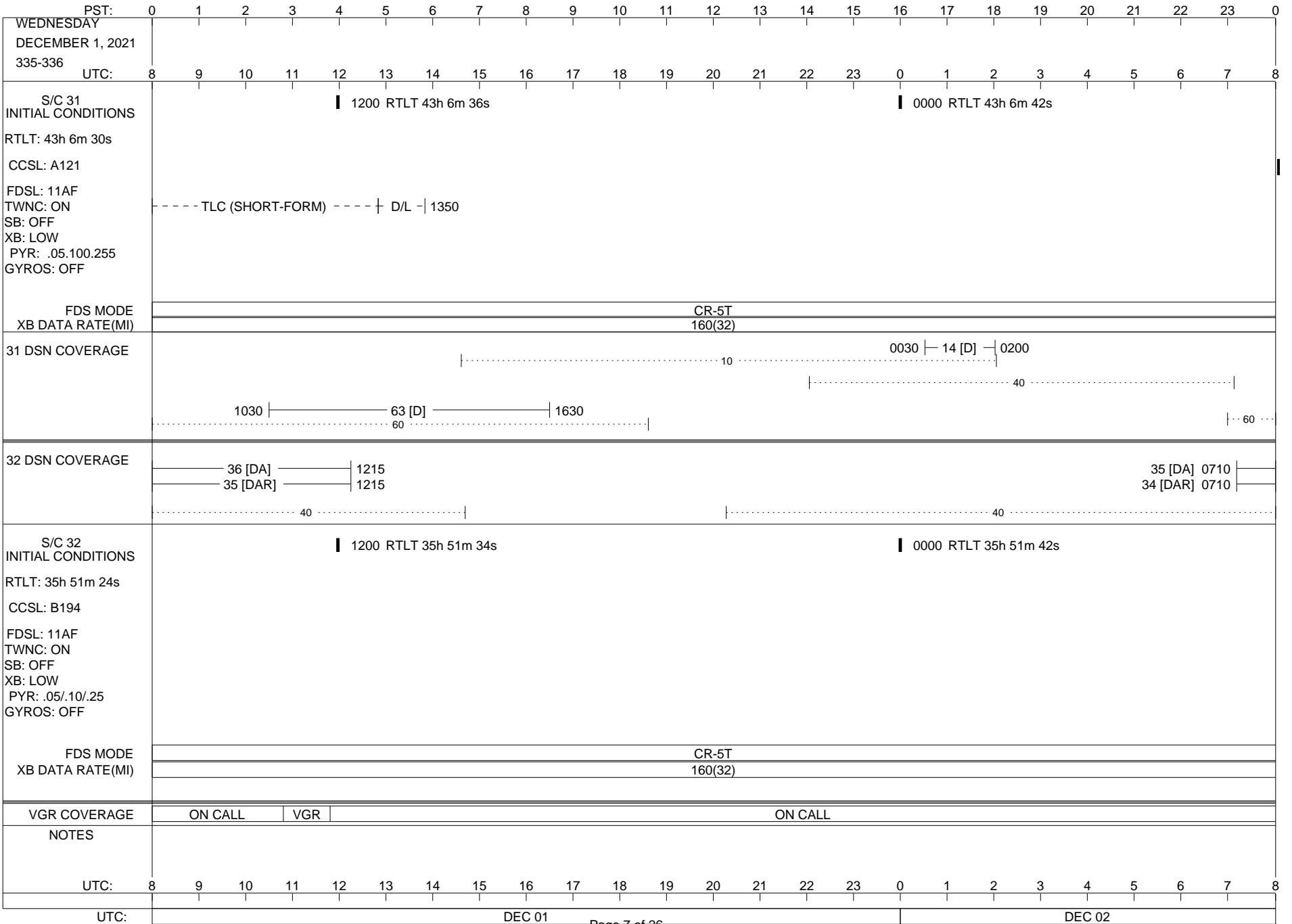
ISSUE DATE: 11/30/21 20:14

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MONDAY NOVEMBER 29, 2021 333-334	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 6m 6s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 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		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 18s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 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	40.....40.....																																			
		36 [DAR] 1020												0635 36 [DA]												0635 35 [DAR]											
		34 [DA] 1020																																			
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												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																																					
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ISSUE DATE: 11/30/21 20:14



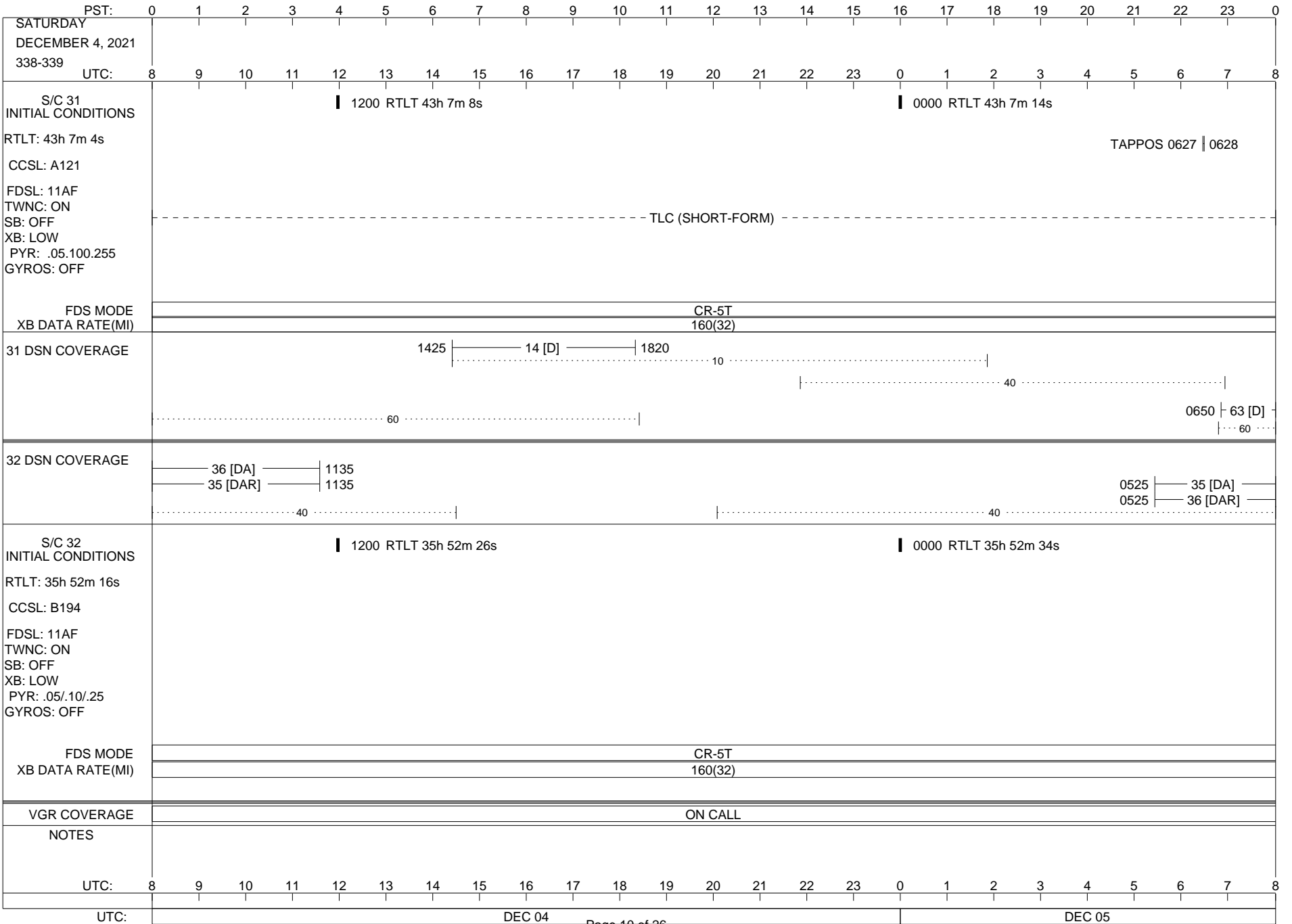
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THURSDAY DECEMBER 2, 2021 336-337																									
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S/C 31 INITIAL CONDITIONS RTLTL: 43h 6m 42s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF	1200 RTLTL 43h 6m 46s												0000 RTLTL 43h 6m 52s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> 1435 ----- 14 [D] ----- 1955 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> ----- 10 ----- ----- 40 ----- </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> ----- 60 ----- ----- 60 ----- </div>																								
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> 35 [DA] ----- 1110 36 [DA] 0750 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 34 [DAR] ----- 1110 35 [DAR] 0750 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> ----- 40 ----- ----- 40 ----- </div>																								
S/C 32 INITIAL CONDITIONS RTLTL: 35h 51m 42s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/.25 GYROS: OFF	1200 RTLTL 35h 51m 50s												0000 RTLTL 35h 52m 0s												
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:	DEC 02												DEC 03												

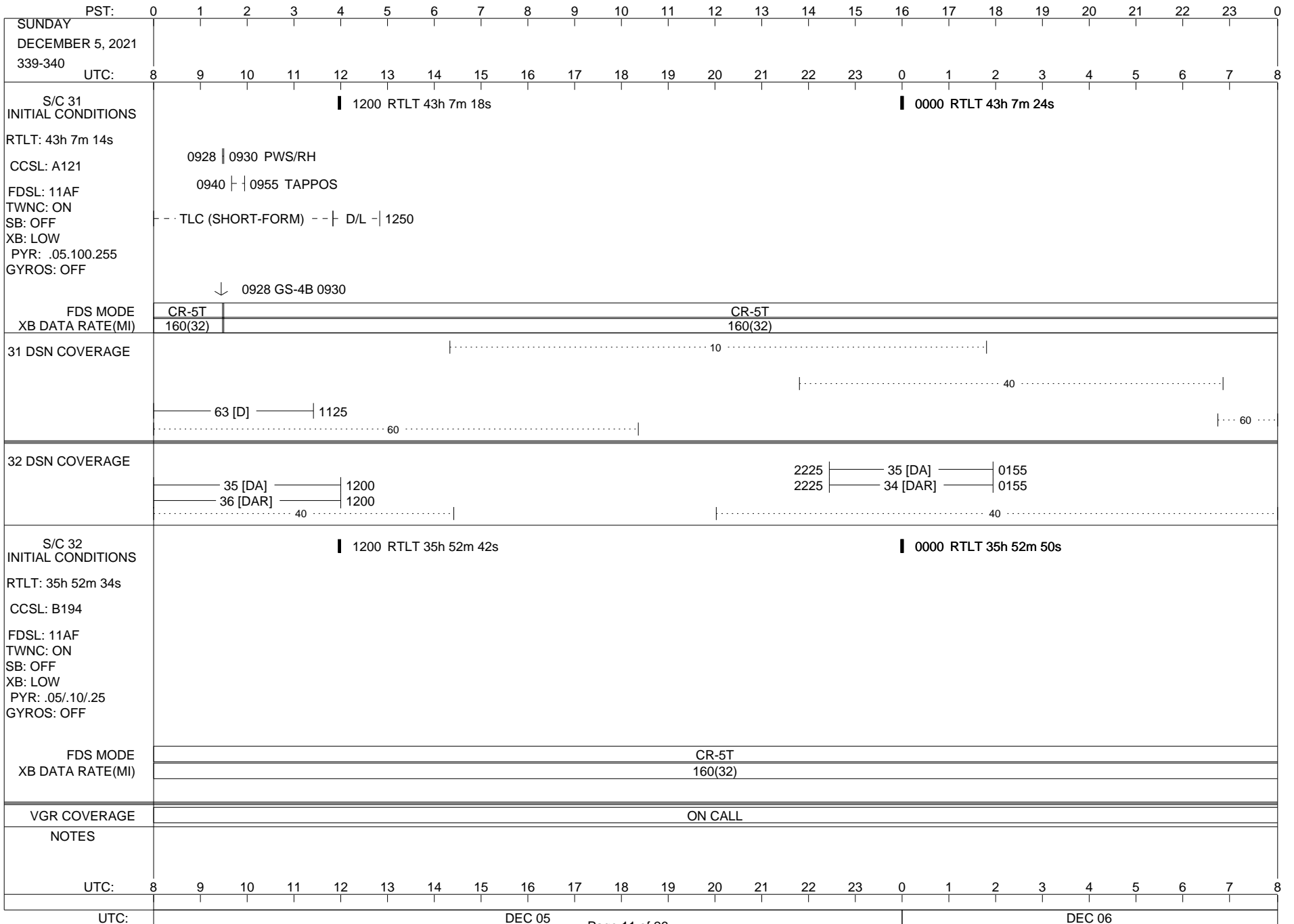
ISSUE DATE: 11/30/21 20:14

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: .05.100.255 GYROS: OFF FDS MODE XB DATA RATE(MI)		1200 RTLT 43h 6m 58s 0000 RTLT 43h 7m 4s ▼ 1550 CCS DIAG (10:57) U/L 1615 - ----- TLC (SHORT-FORM) -----
31 DSN COVERAGE		CR-5T 160(32) 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 FDS MODE XB DATA RATE(MI)		1200 RTLT 35h 52m 8s 0000 RTLT 35h 52m 16s
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 Page 9 of 26 DEC 04

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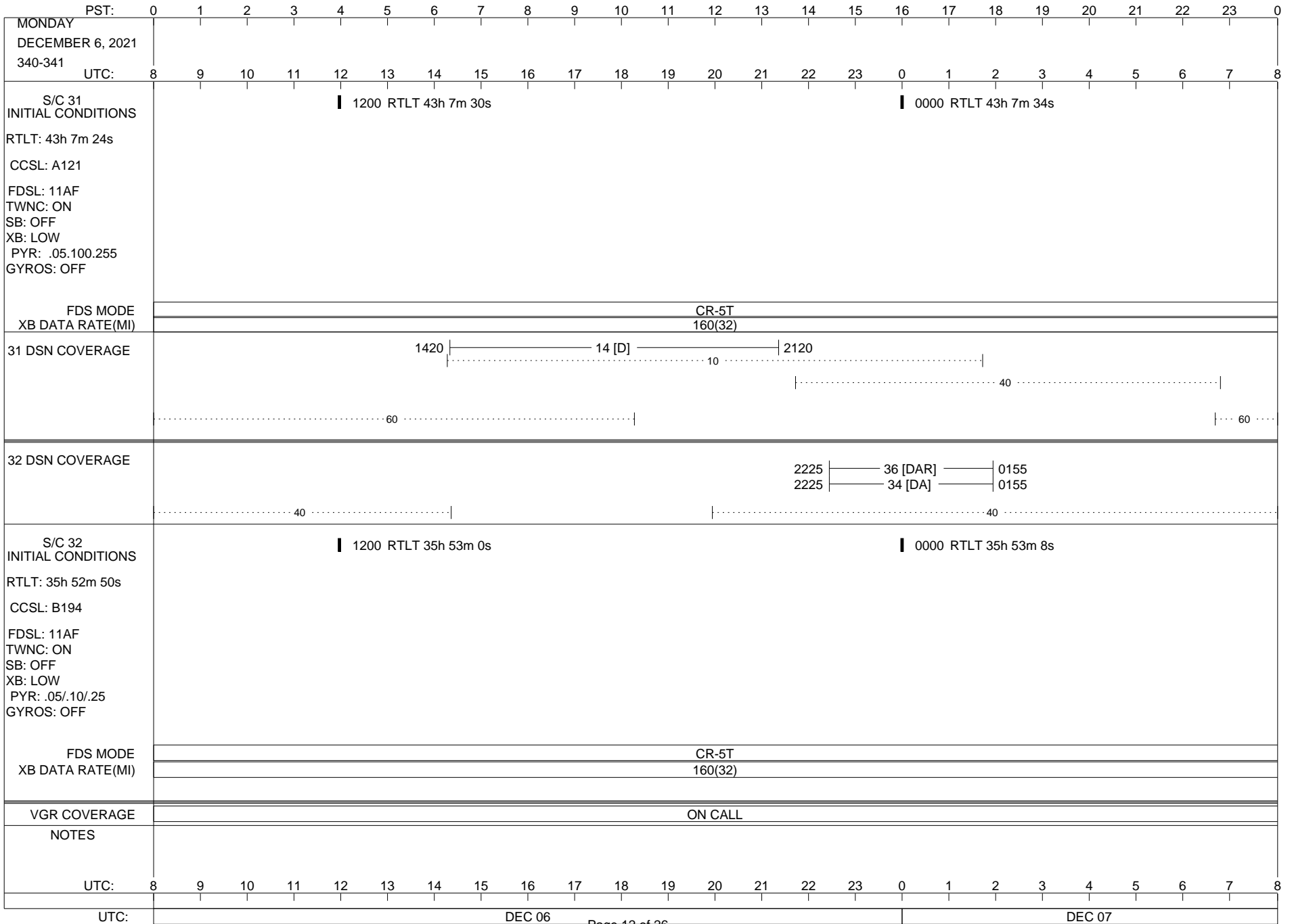


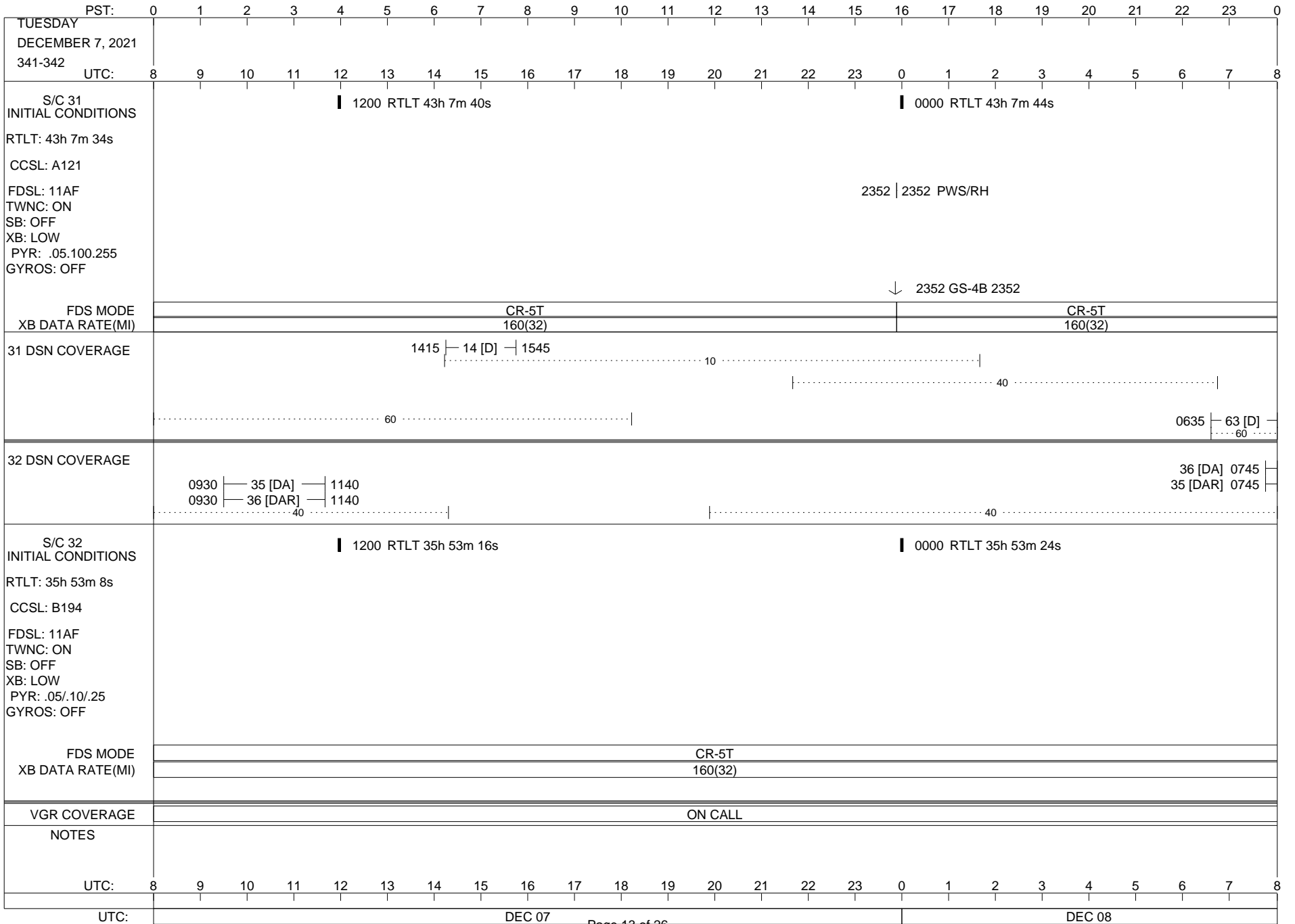
UTC:

DEC 05

DEC 06

ISSUE DATE: 11/30/21 20:14





ISSUE DATE: 11/30/21 20:14

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 8, 2021
342-343

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 7m 44s
CCSL: A121
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05.100.255
GYROS: OFF

1200 RTLTL 43h 7m 48s

0000 RTLTL 43h 7m 54s

1543 |--- MAGCAL ---| 1845
1543 |--- PESCAL ---| 1903

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS
RTLTL: 35h 53m 24s
CCSL: B194
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/10/.25
GYROS: OFF

1200 RTLTL 35h 53m 32s

0000 RTLTL 35h 53m 40s

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

VGR COVERAGE

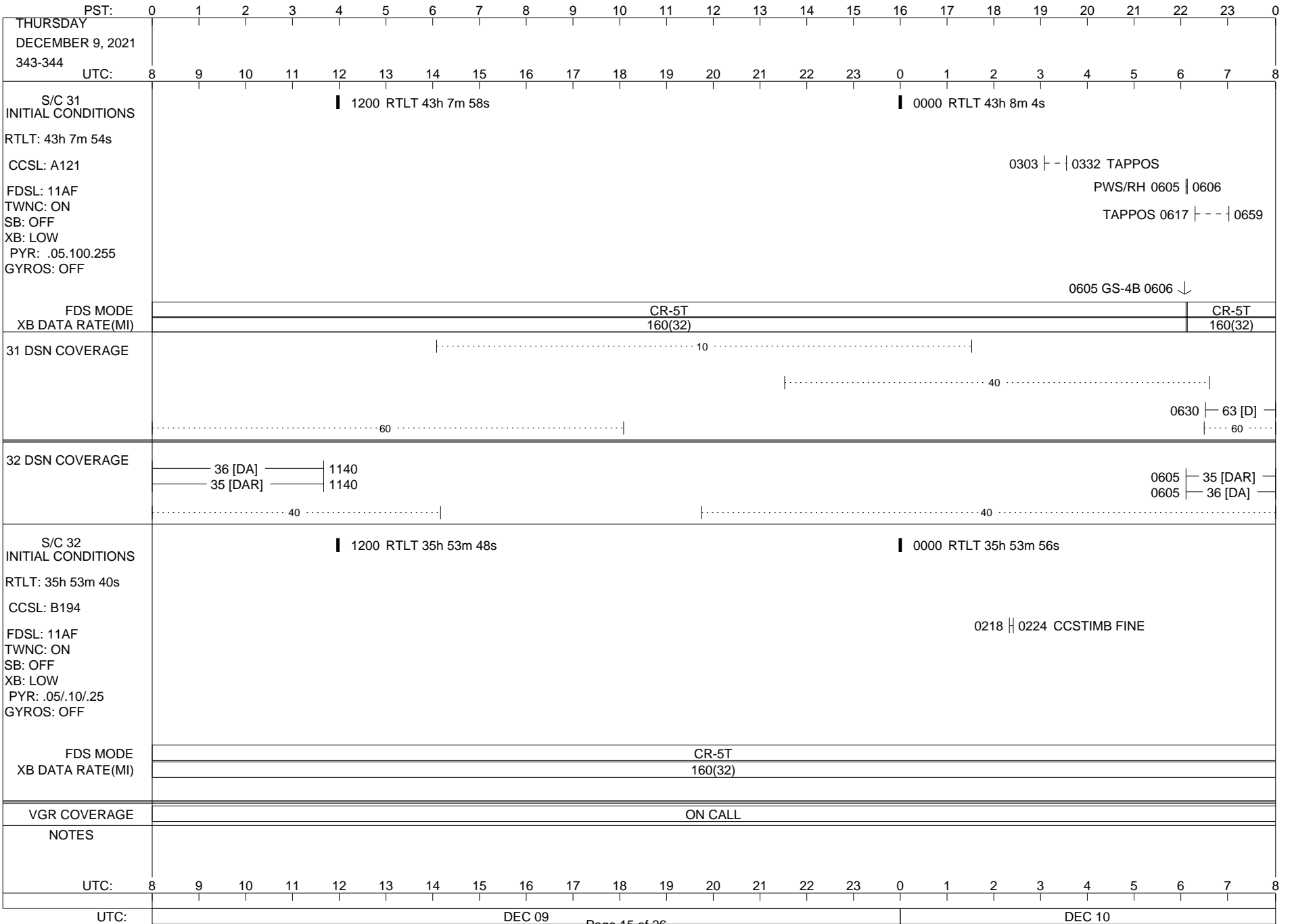
ON CALL

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 08 Page 14 of 26 DEC 09

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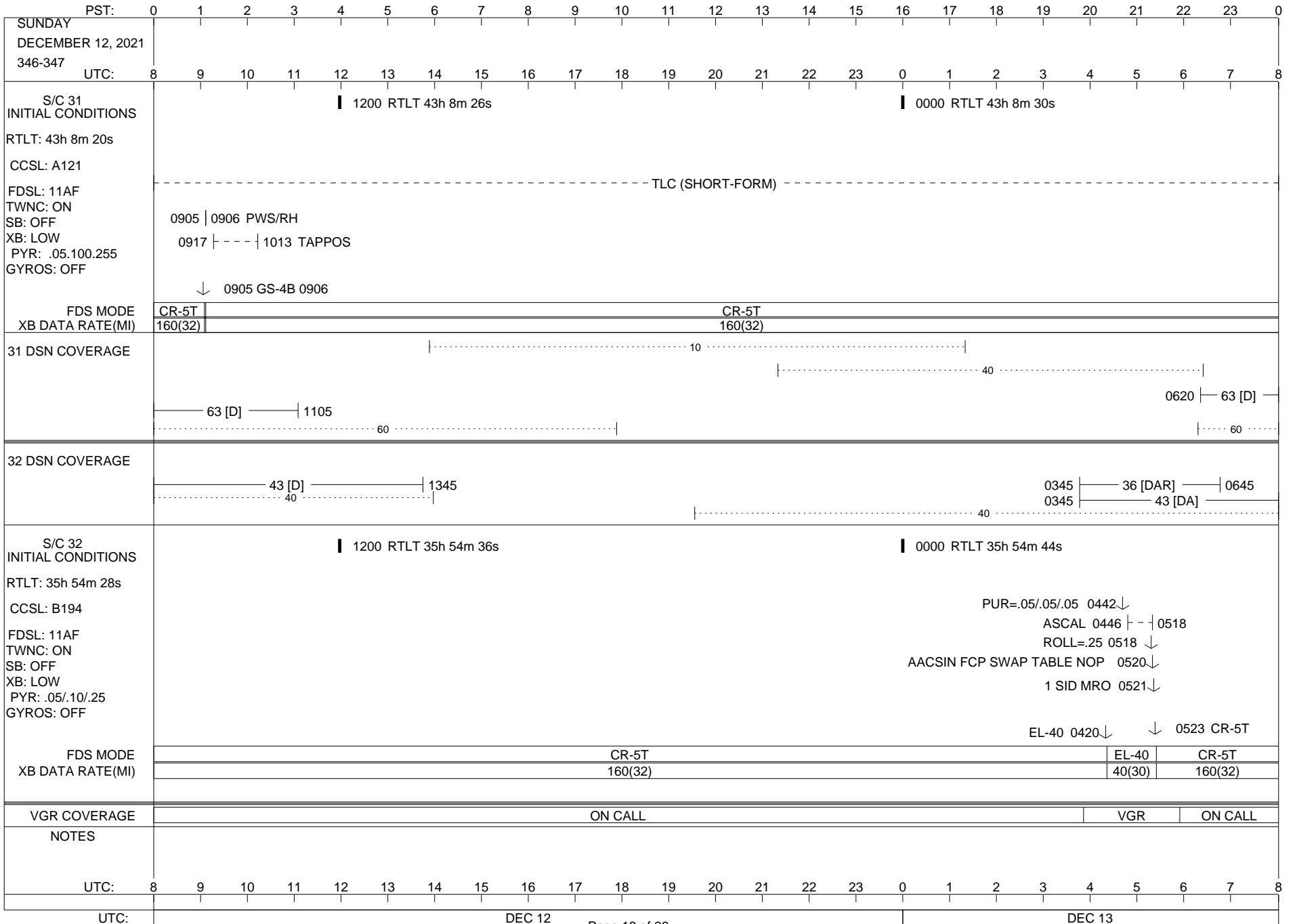
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FRIDAY																										
DECEMBER 10, 2021																										
344-345																										
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS						█																				
RTLT: 43h 8m 4s																										
CCSL: A121																										
FDSL: 11AF																										
TWNC: ON																										
SB: OFF																										
XB: LOW																										
PYR: .05.100.255																										
GYROS: OFF																										
FDS MODE																										
XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
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																										
FDS MODE																										
XB DATA RATE(MI)																										
VGR COVERAGE																										
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											

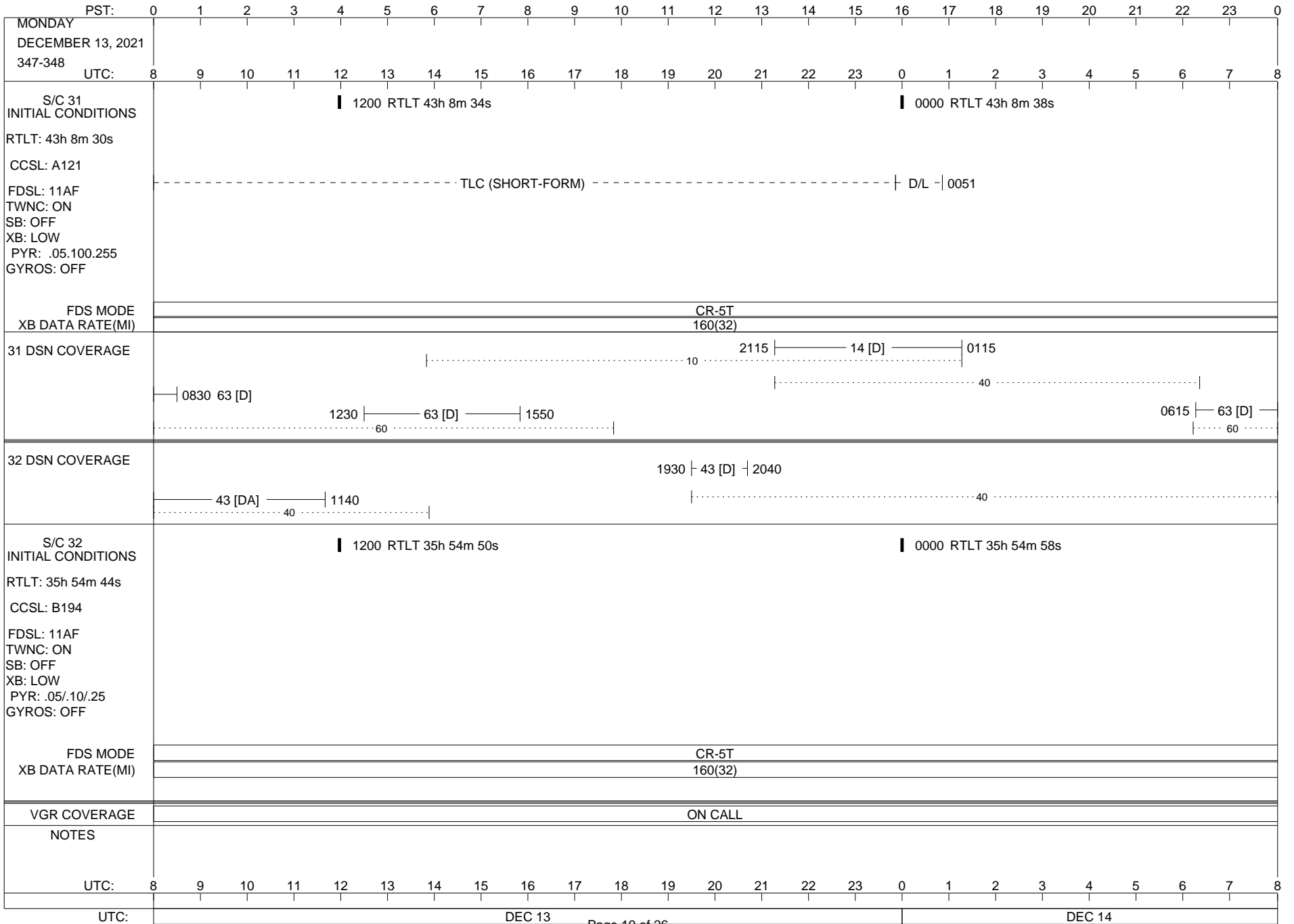
ISSUE DATE: 11/30/21 20:14

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SATURDAY DECEMBER 11, 2021 345-346																									
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S/C 31 INITIAL CONDITIONS RTLT: 43h 8m 12s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF					█ 1200												█ 0000								
FDS MODE XB DATA RATE(MI)																									
31 DSN COVERAGE																									
32 DSN COVERAGE																									
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												█ 0000								
FDS MODE XB DATA RATE(MI)																									
VGR COVERAGE																									
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:																									

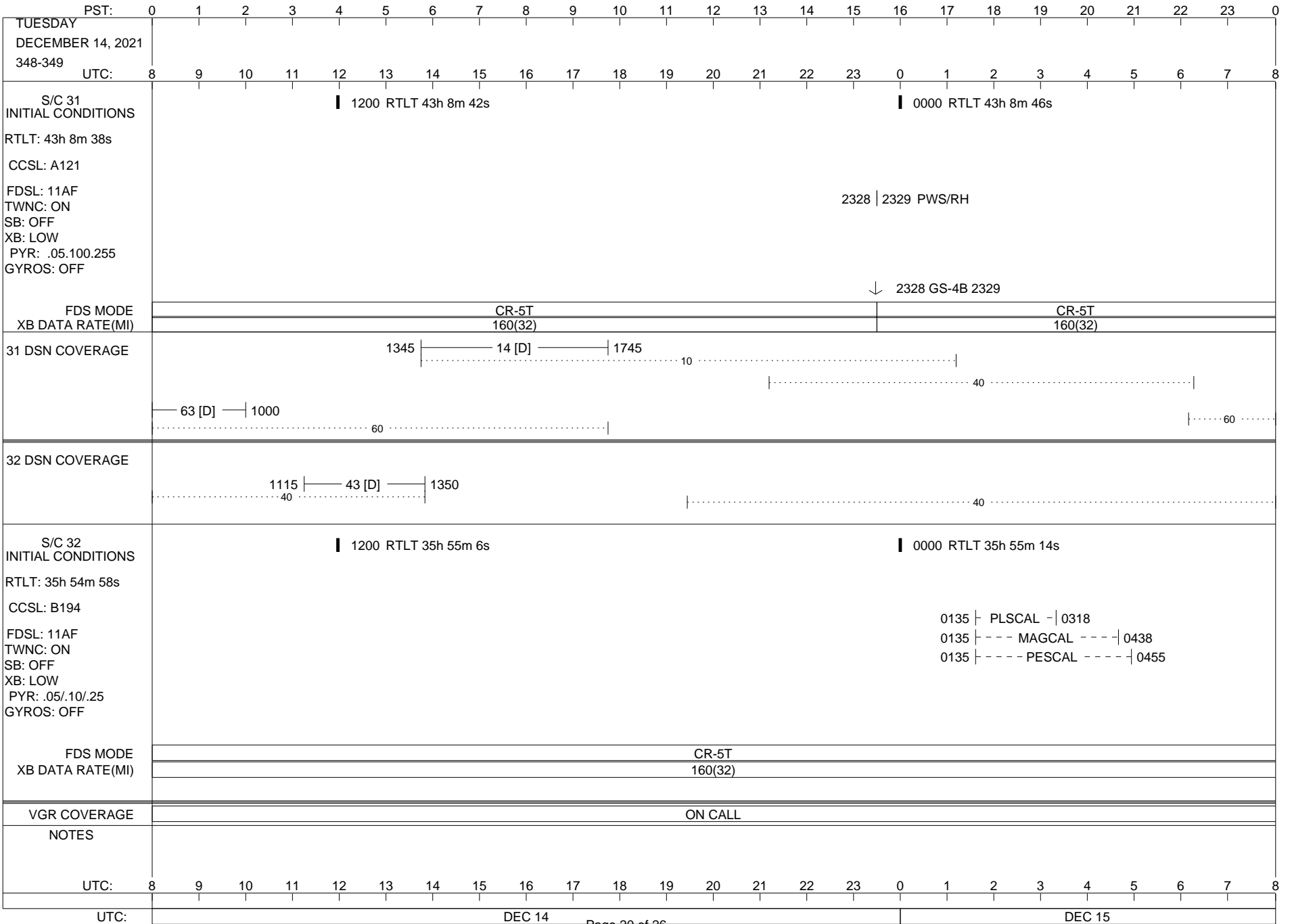
ISSUE DATE: 11/30/21 20:14



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ISSUE DATE: 11/30/21 20:14

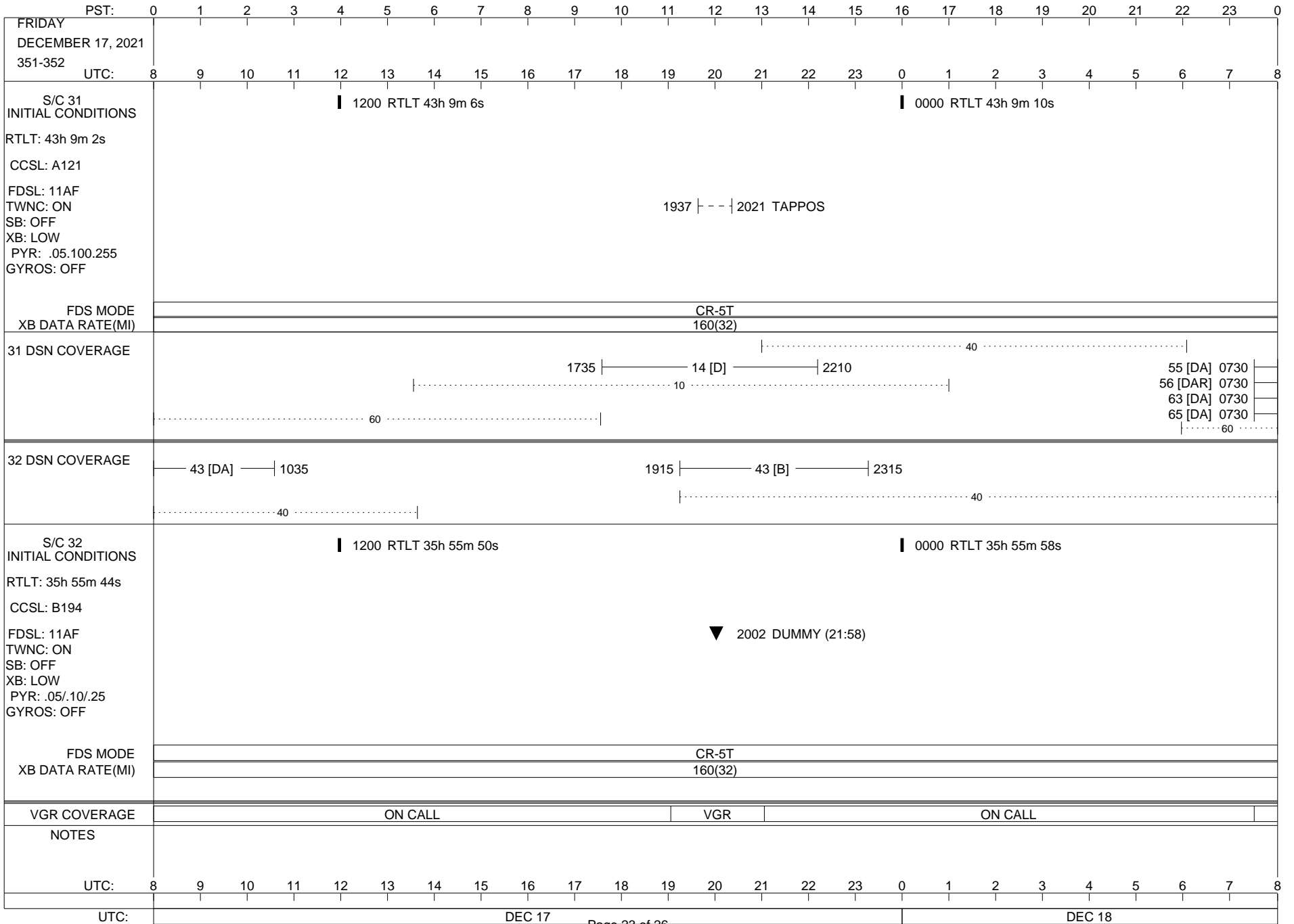


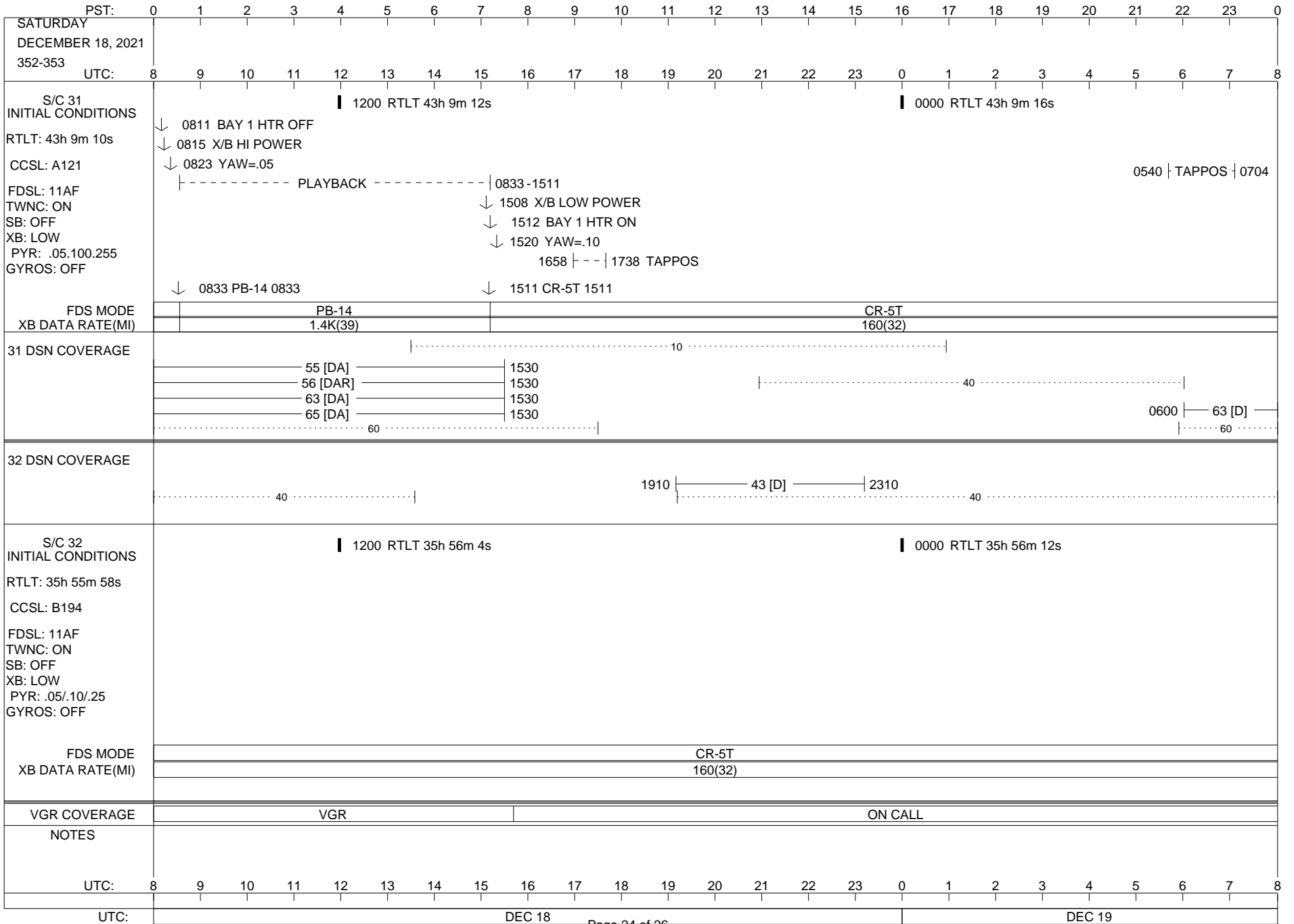
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WEDNESDAY																													
DECEMBER 15, 2021																													
349-350																													
UTC:		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8			
S/C 31 INITIAL CONDITIONS		1200 RTLT 43h 8m 50s														0000 RTLT 43h 8m 54s													
RTLT: 43h 8m 46s																													
CCSL: A121		1614 ----- FULL MRO ----- 2242																											
FDSL: 11AF		1614 -- AACS -- 1759																											
TWNC: ON		1800 ---- FDS ---- 2011																											
SB: OFF		2012 CCSA 2127																											
XB: LOW		2128 CCSB 2242																											
PYR: .05.100.255																													
GYROS: OFF																													
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		1200 RTLT 35h 55m 22s														0000 RTLT 35h 55m 28s													
RTLT: 35h 55m 14s																													
CCSL: B194																													
FDSL: 11AF		0137 PLSCAL - 0320																											
TWNC: ON		0137 ---- MAGCAL ---- 0440																											
SB: OFF		0137 ----- PESCAL ----- 0457																											
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 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														DEC 16													

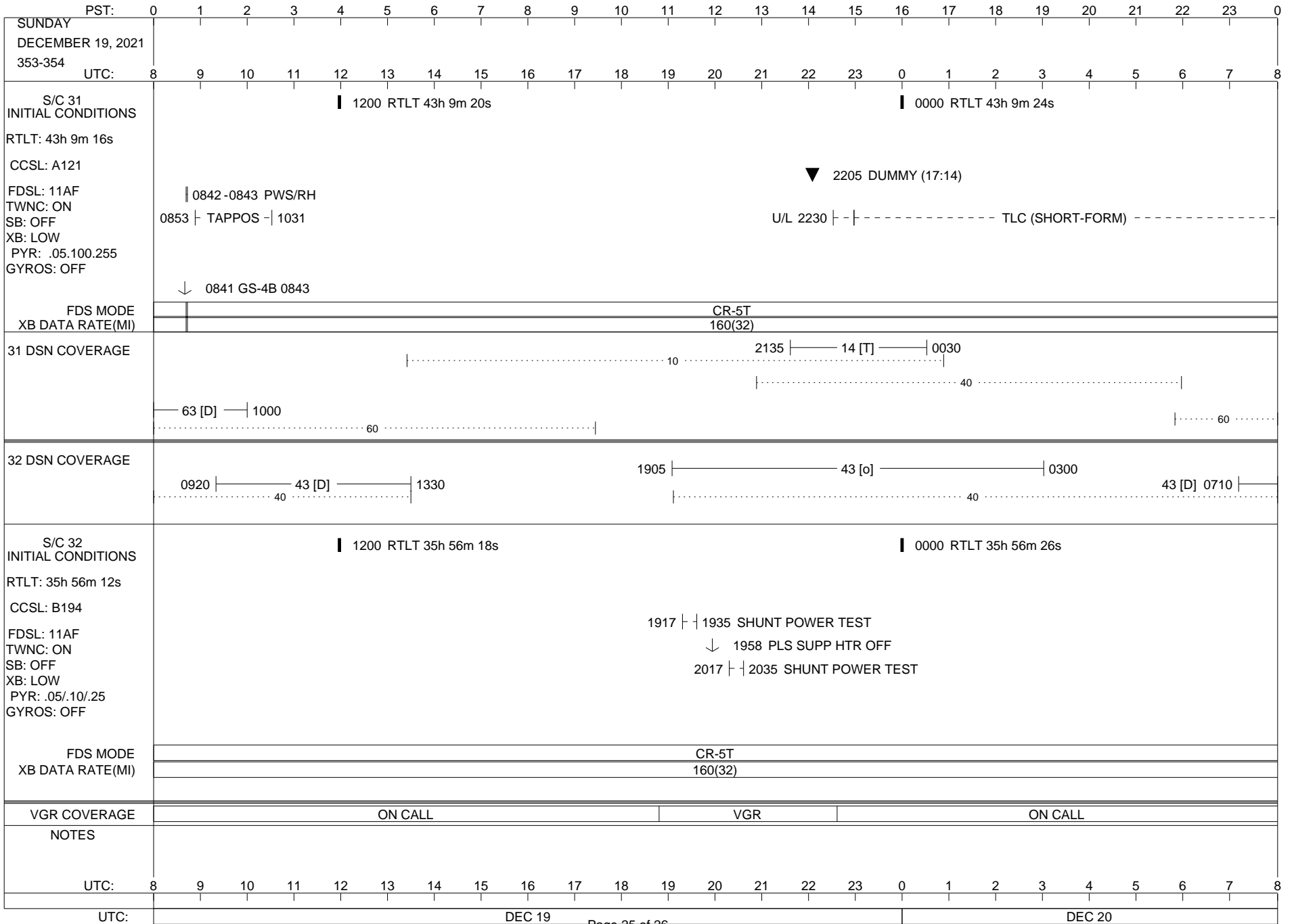
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THURSDAY DECEMBER 16, 2021 350-351	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 43h 8m 54s CCSL: A121 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05.100.255 GYROS: OFF	1200 RTLTL 43h 8m 58s												0000 RTLTL 43h 9m 2s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE10.....2250 -----43 [D]----- 0250.....60.....												
32 DSN COVERAGE	0850 -----43 [D]----- 1330.....40.....											40.....0335 -----43 [DA]----- 0655 0335 -----36 [DAR]-----												
S/C 32 INITIAL CONDITIONS RTLTL: 35h 55m 28s CCSL: B194 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 35h 55m 36s												0000 RTLTL 35h 55m 44s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												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 16												Page 22 of 26						DEC 17						

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ISSUE DATE: 11/30/21 20:14

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: .05.100.255 GYROS: OFF	<div style="text-align: center;">█ 1200 RTLTL 43h 9m 26s</div> <hr/> <div style="text-align: center;">----- TLC (SHORT-FORM) -----</div> <hr/> <div style="text-align: right;">FDS MODE CR-5T XB DATA RATE(MI) 160(32)</div>																								
31 DSN COVERAGE	2130 14 [D] 2230																								
32 DSN COVERAGE	<div style="text-align: center;">----- 60 ----- </div> <hr/> <div style="text-align: center;">43 [D] 0940 1930 43 [D] 2040</div> <hr/> <div style="text-align: center;">----- 40 ----- </div>																								
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	<div style="text-align: center;">█ 1200 RTLTL 35h 56m 32s</div> <hr/> <div style="text-align: right;">FDS MODE CR-5T XB DATA RATE(MI) 160(32)</div>																								
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												