

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 14, 2016

For the Period: 12/15/16 to 01/09/17 (16-350 – 17-009)

DSN OPSCHIEF (1) 230-102

DSOT (1) 230-102

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FLIGHT TEAM (14) 600-100

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 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina
 Peralta, F.
 Weeks, T.
 Wong, R.
 Yang, L.
 Zottarelli, L.
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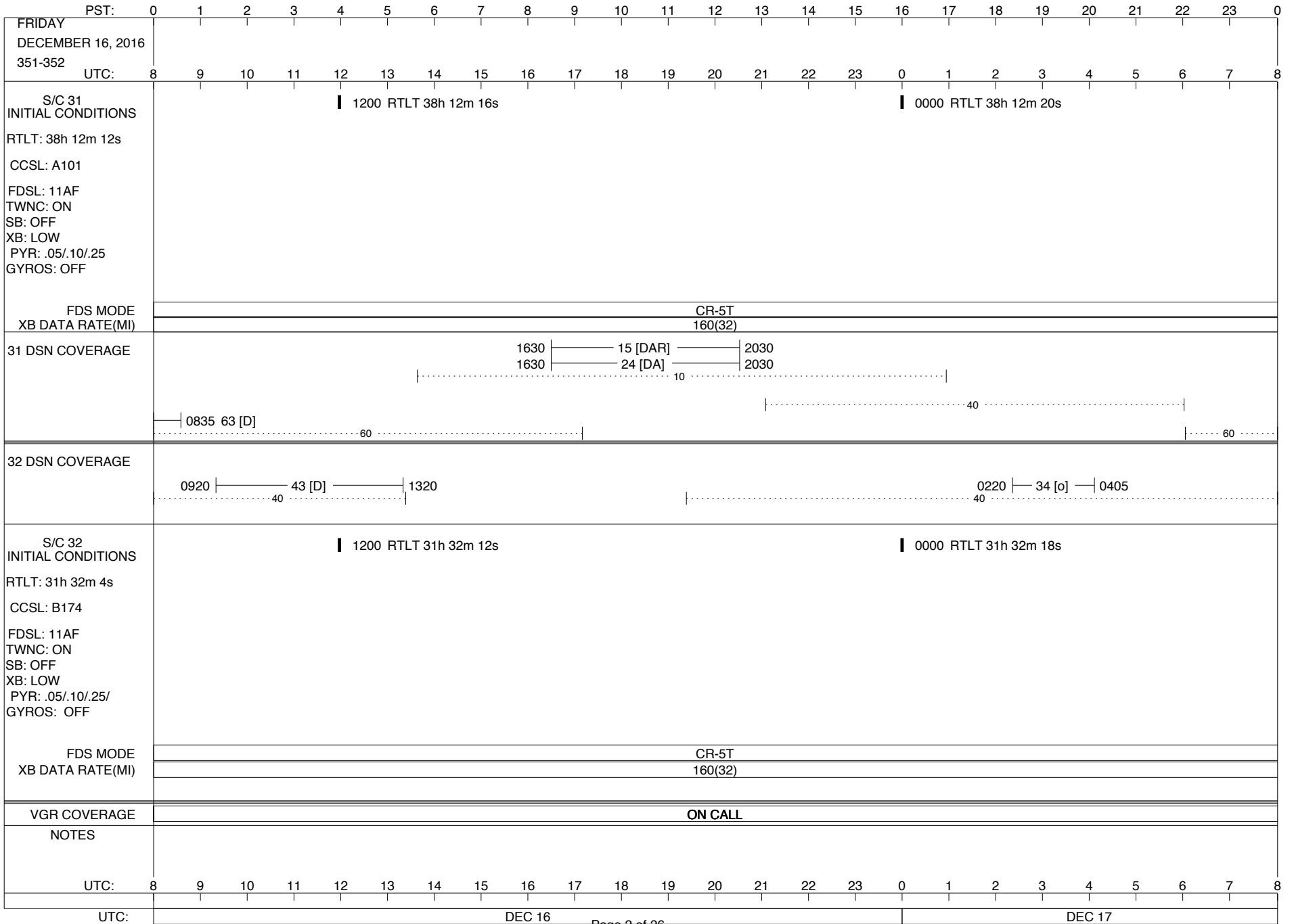
LEGEND:
 ▽ = R/T Command (Last chance or Contingency)
 ▼ = R/T Command (Scheduled)
 * = Result of R/T Command
 n = (where n = 1,2,3 ..) Special Note, see bottom of page
 A = Arrayed station
 B = BLF
 D = Downlink only pass
 H = High Power Transmitter
 R = Array Reference Antenna
 T = TLC Uplink
 U = Uplink only pass
 [o] = Ramp-through

*Electronic Copy Only
 (16 – Dist/N: Paper Copies)
 09/08/10

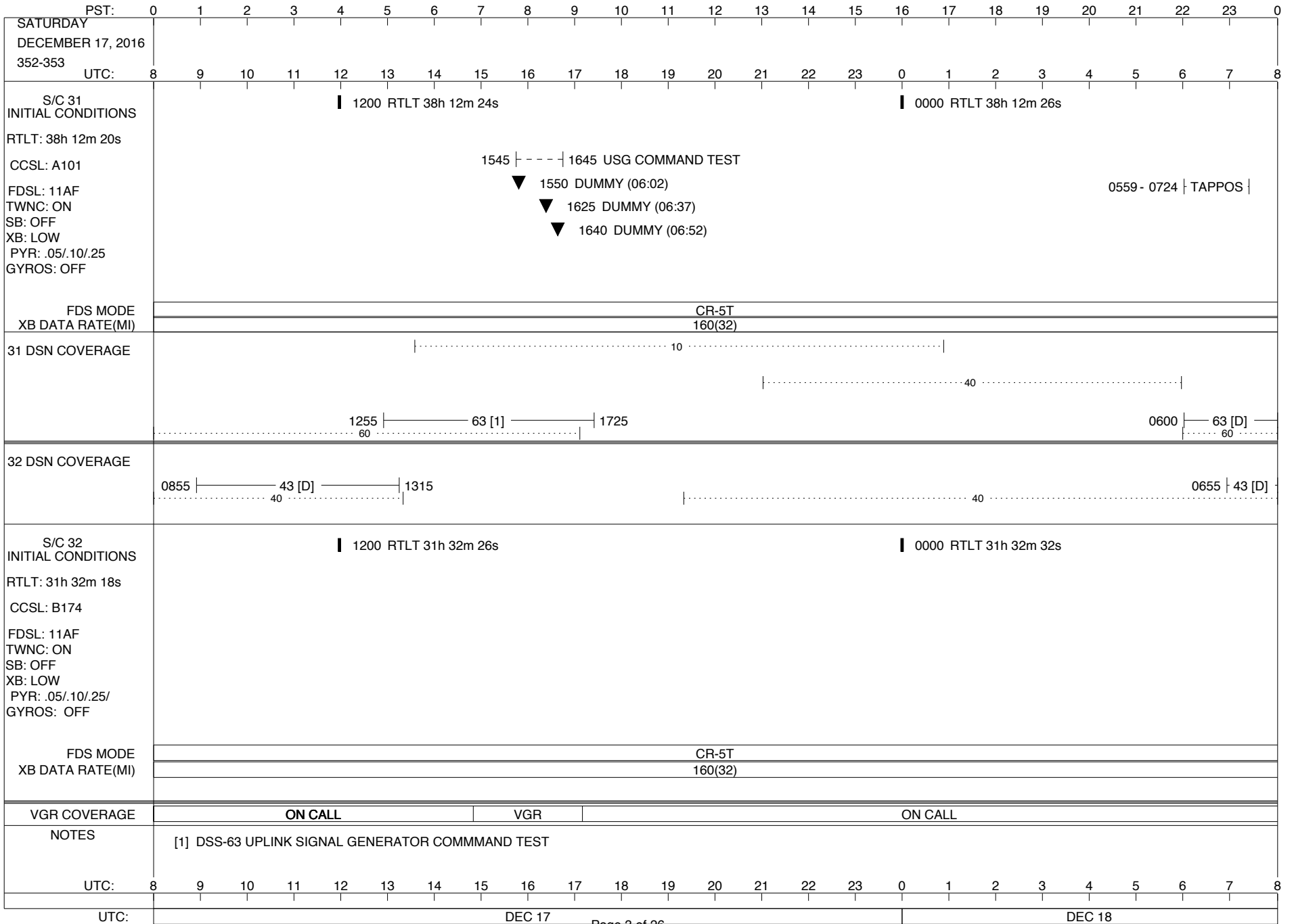
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 12m 4s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 12m 8s												0000 RTLTL 38h 12m 12s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1520 ----- 25 [DAR] ----- 1925 1520 ----- 26 [DA] ----- 1925 ----- 10 ----- ----- 40 ----- 60												0259 ----- 0410 TAPPOS PWS/RH 0601 0602 0613- 0737 TAPPOS 0601 GS-4B 0602 ↓ 0610 ----- 63 [D] ----- 60												
32 DSN COVERAGE	43 [o] ----- 132540												2330 43 [D] 003040												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 31m 48s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 31m 56s												0000 RTLTL 31h 32m 4s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0601 XB=2.8K(41) NOT RECOVERABLE																								
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												

ISSUE DATE: 12/15/16 06:34



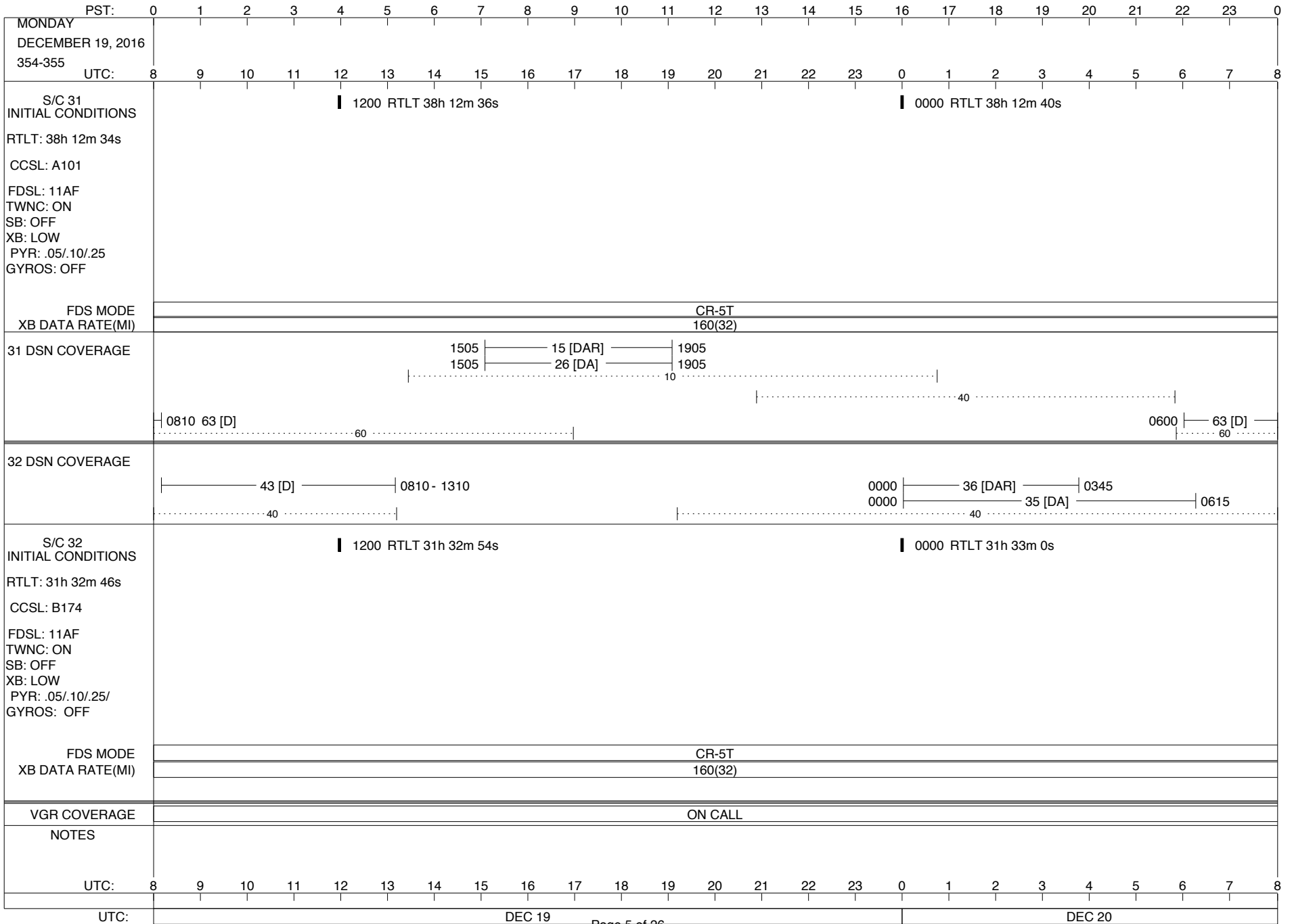
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SUNDAY DECEMBER 18, 2016 353-354	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 38h 12m 26s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 12m 30s												0000 RTLTL 38h 12m 34s												
0901 0902 PWS/RH 0913 TAPPOS - 1051 ↓ 0901 GS-4B 0902													2135 - 2207 SHUNT POWER TEST												
FDS MODE XB DATA RATE(MI)	CR-5T												CR-5T 160(32)												
31 DSN COVERAGE	63 [D] 1055 60												1855 14 [D] 0045 10 40 0555 63 [D] 60												
32 DSN COVERAGE	43 [D] 1315 40												1945 34 [DAo] 2325 1945 35 [DAR] 2325 40												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 32m 32s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 32m 40s												0000 RTLTL 31h 32m 46s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0901 XB=2.8K(41) NOT RECOVERABLE																								
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												

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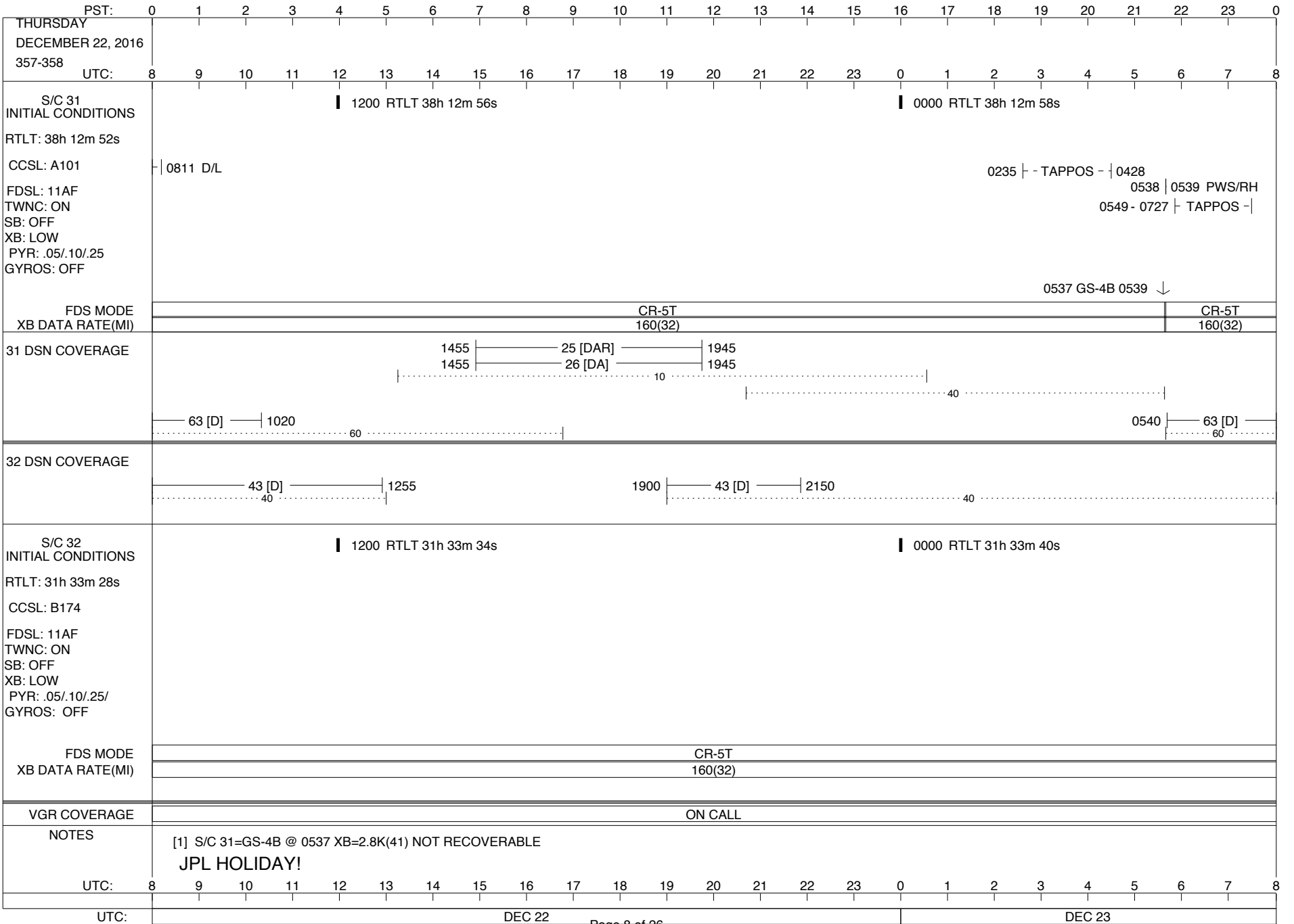
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TUESDAY DECEMBER 20, 2016 355-356																									
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S/C 31 INITIAL CONDITIONS RTLT: 38h 12m 40s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 12m 44s												0000 RTLT 38h 12m 46s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>1535 ----- 14 [T] ----- 1935</p> <p>63 [D] ----- 1120</p> <p>0550 - 0745 ----- 63 [D]</p>																								
32 DSN COVERAGE	<p>0000 36 [D] 0100</p> <p>0100 ----- 35 [D]</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 31h 33m 0s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 33m 8s												0000 RTLT 31h 33m 14s												
FDS MODE	CR-5T												EL-40												
XB DATA RATE(MI)	160(32)												40(30)												
VGR COVERAGE	ON CALL												VGR			ON CALL						VGR			
NOTES	<p>[1] S/C 31=GS-4B @ 2324 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 32=EL-40 @ 0551 XB=40(30)</p>																								
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												Page 6 of 26						DEC 21						

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WEDNESDAY DECEMBER 21, 2016 356-357																												
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: 38h 12m 46s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 38h 12m 50s														█ 0000 RTLTL 38h 12m 52s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
31 DSN COVERAGE	1320 ----- 14 [D] ----- 1720														10 ----- 40													
	60														0545 ----- 63 [D] ----- 60													
32 DSN COVERAGE	0805 35 [D]														0405 ----- 43 [D] -----													
	0915 ----- 43 [B] ----- 1300														40													
S/C 32 INITIAL CONDITIONS RTLTL: 31h 33m 14s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 31h 33m 22s														█ 0000 RTLTL 31h 33m 28s													
FDS MODE XB DATA RATE(MI)															CR-5T 160(32)													
VGR COVERAGE	ON CALL							VGR							ON CALL													
NOTES	1125 - 1157 SHUNT POWER TEST ▼ 1227 DUMMY (5 MIN BRACKETED 20:01)																											
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 21														DEC 22													

ISSUE DATE: 12/15/16 06:34



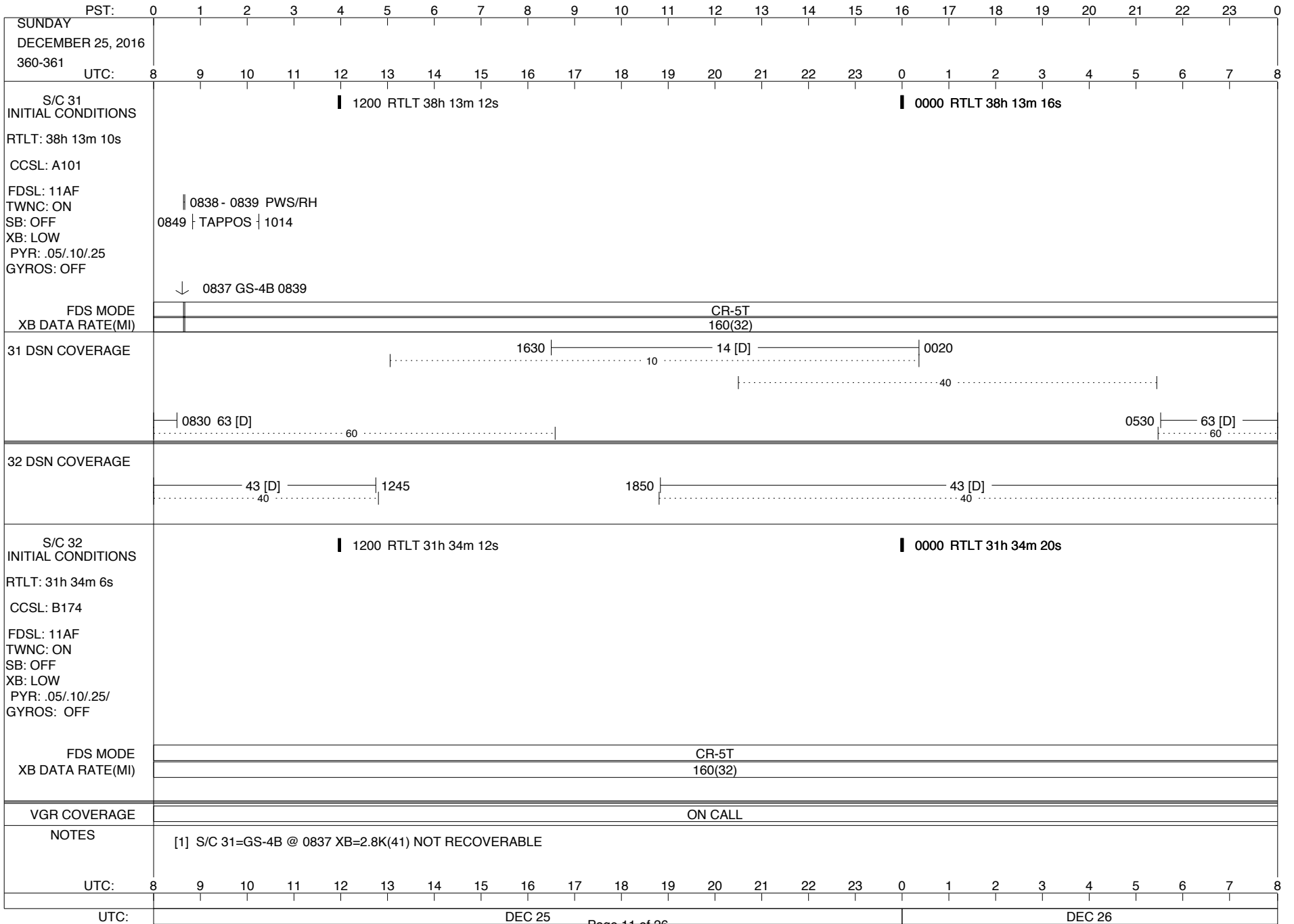
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S/C 31 INITIAL CONDITIONS RTLT: 38h 12m 58s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 13m 2s												0000 RTLT 38h 13m 4s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	1310 ----- 14 [D] ----- 1710 10												0030 ----- 43 [D] ----- 0355 40												
	0815 63 [D] 60												0535 ----- 63 [D] ----- 60												
32 DSN COVERAGE	0855 ----- 43 [D] ----- 1255 40												1925 ----- 34 [DA] ----- 2230 1925 ----- 36 [DAR] ----- 2230 40												
0140 ----- 34 [D] ----- 0555																									
S/C 32 INITIAL CONDITIONS RTLT: 31h 33m 40s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 33m 48s												0000 RTLT 31h 33m 54s												
FDS MODE XB DATA RATE(MI)	CR-5T 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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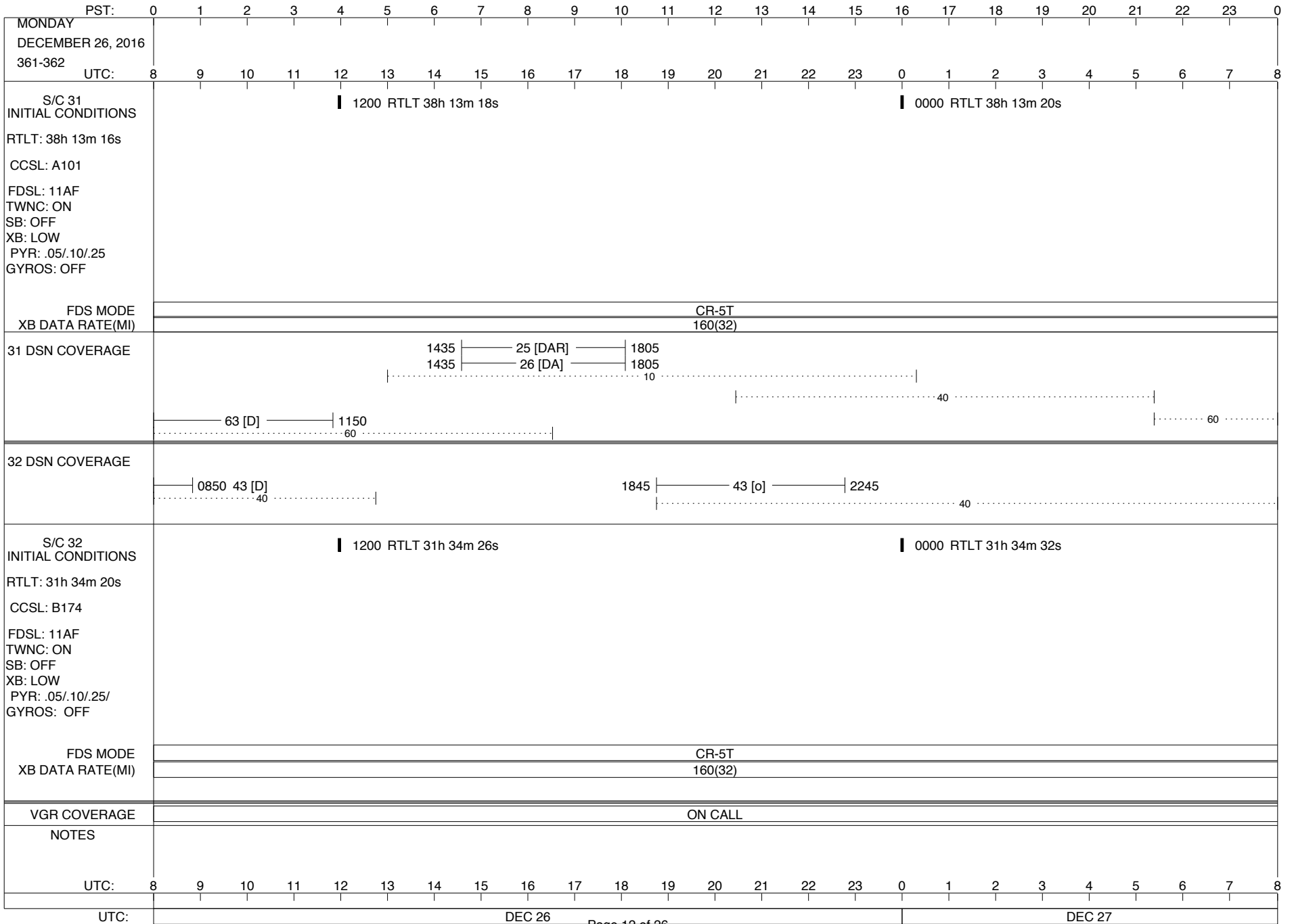
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SATURDAY DECEMBER 24, 2016 359-360	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 38h 13m 4s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 13m 8s												0000 RTLTL 38h 13m 10s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1310 ----- 14 [D] ----- 1710												10 ----- 40 -----												
	63 [D] ----- 0935												0535 ----- 63 [D] -----												
	60 -----												60 -----												
32 DSN COVERAGE	1000 ----- 43 [D] ----- 1250												40 ----- 40 ----- 0615 ----- 43 [D] -----												
	40 -----												40 -----												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 33m 54s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 34m 0s												0000 RTLTL 31h 34m 6s												
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 24												DEC 25												

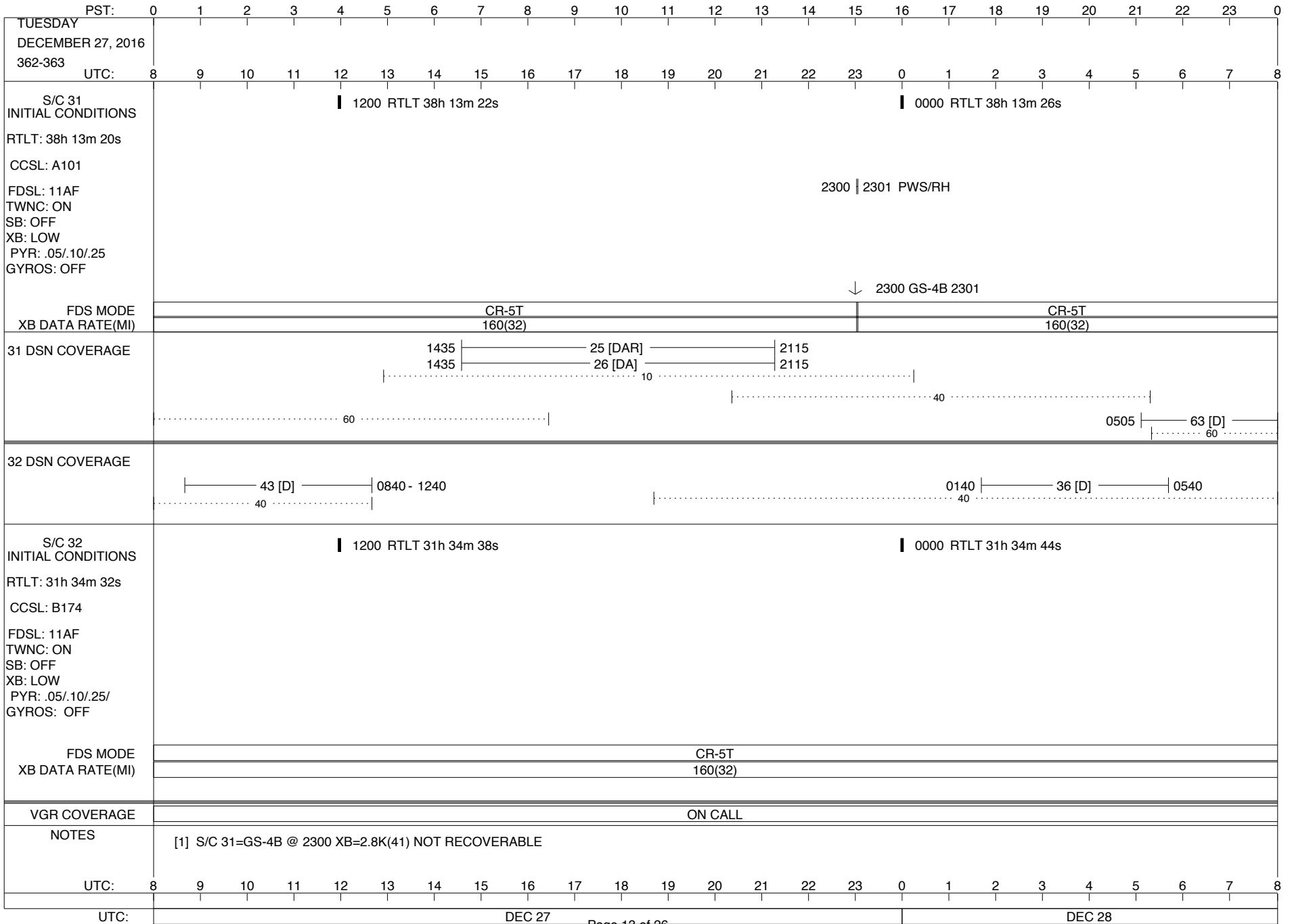
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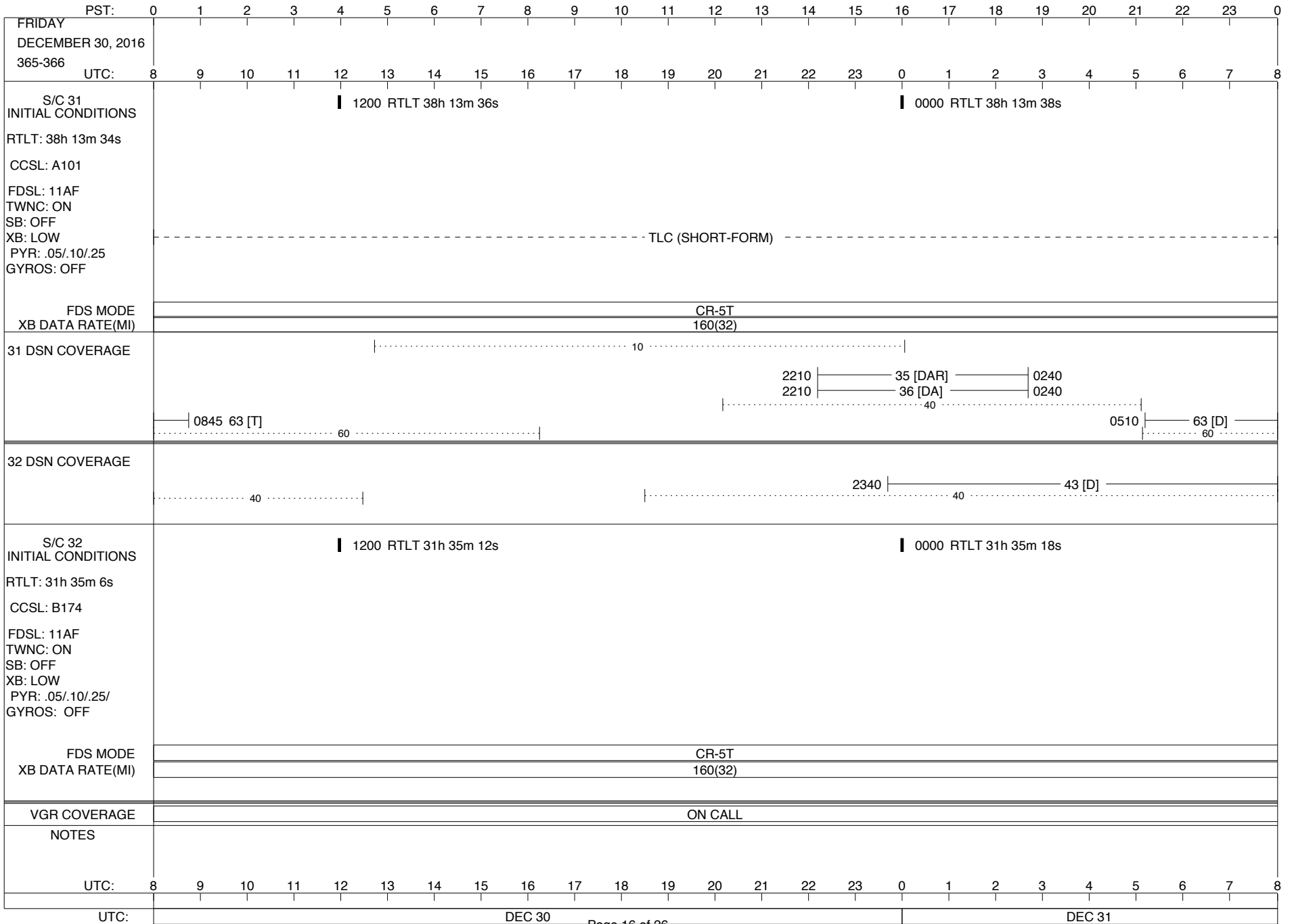
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WEDNESDAY DECEMBER 28, 2016 363-364																										
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S/C 31 INITIAL CONDITIONS RTLT: 38h 13m 26s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF					█																					
FDS MODE																										
XB DATA RATE(MI)																										
31 DSN COVERAGE																										
32 DSN COVERAGE																										
S/C 32 INITIAL CONDITIONS RTLT: 31h 34m 44s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF					█																					
FDS MODE																										
XB DATA RATE(MI)																										
VGR COVERAGE																										
NOTES																										
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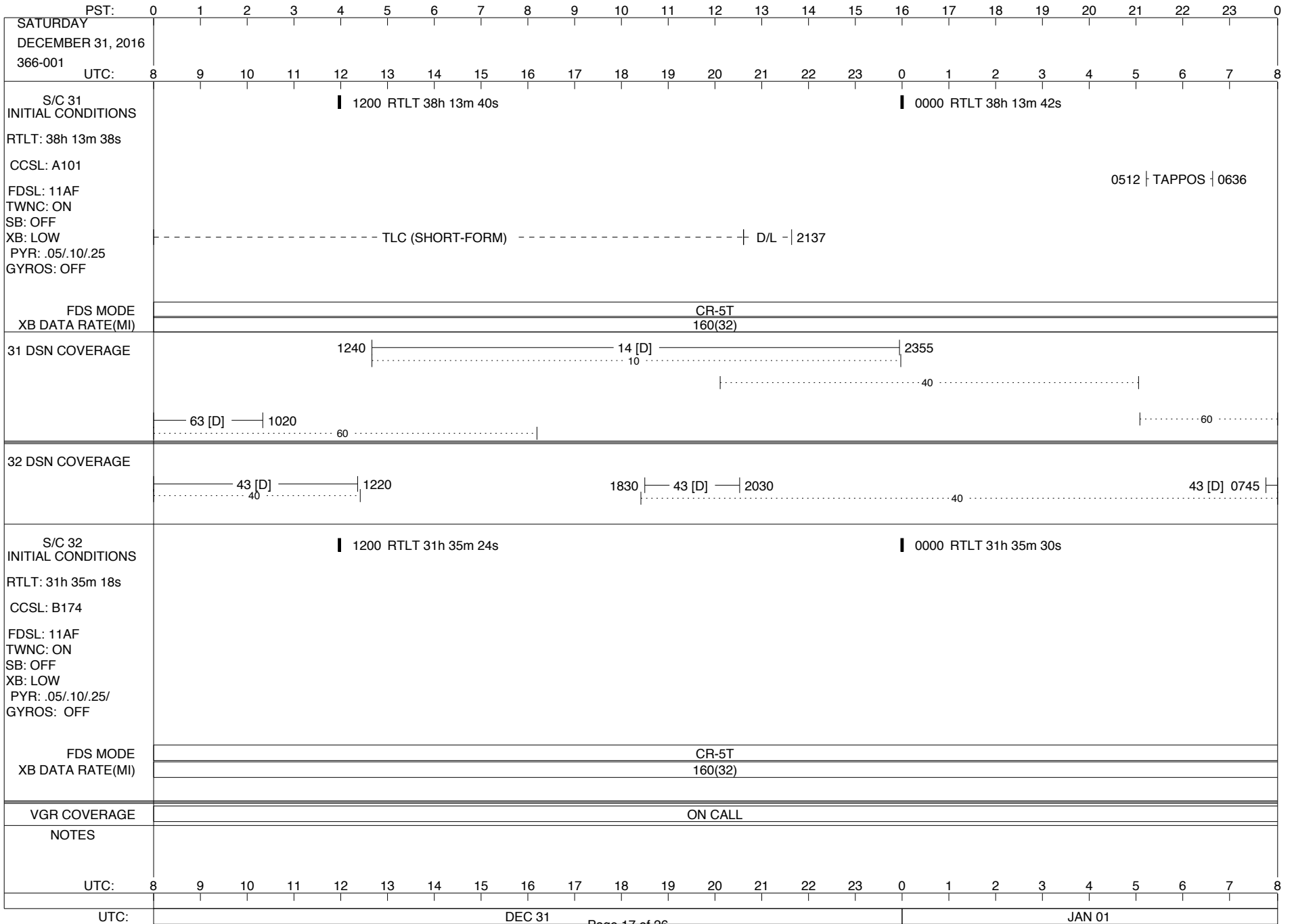
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THURSDAY DECEMBER 29, 2016 364-365																									
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 13m 30s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 13m 32s												0000 RTLT 38h 13m 34s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1250 14 [D] 1545 1525 25 [DAR] 1910 1525 26 [DA] 1910 0845 63 [D] 60 0530 63 [T] 60												10 40 40												
32 DSN COVERAGE	43 [D] 0830 - 1230												1835 43 [D] 2040 0125 34 [D] 0535 40 40												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 34m 56s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 35m 0s												0000 RTLT 31h 35m 6s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0513 XB=2.8K(41) NOT RECOVERABLE																								
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 29												DEC 30												

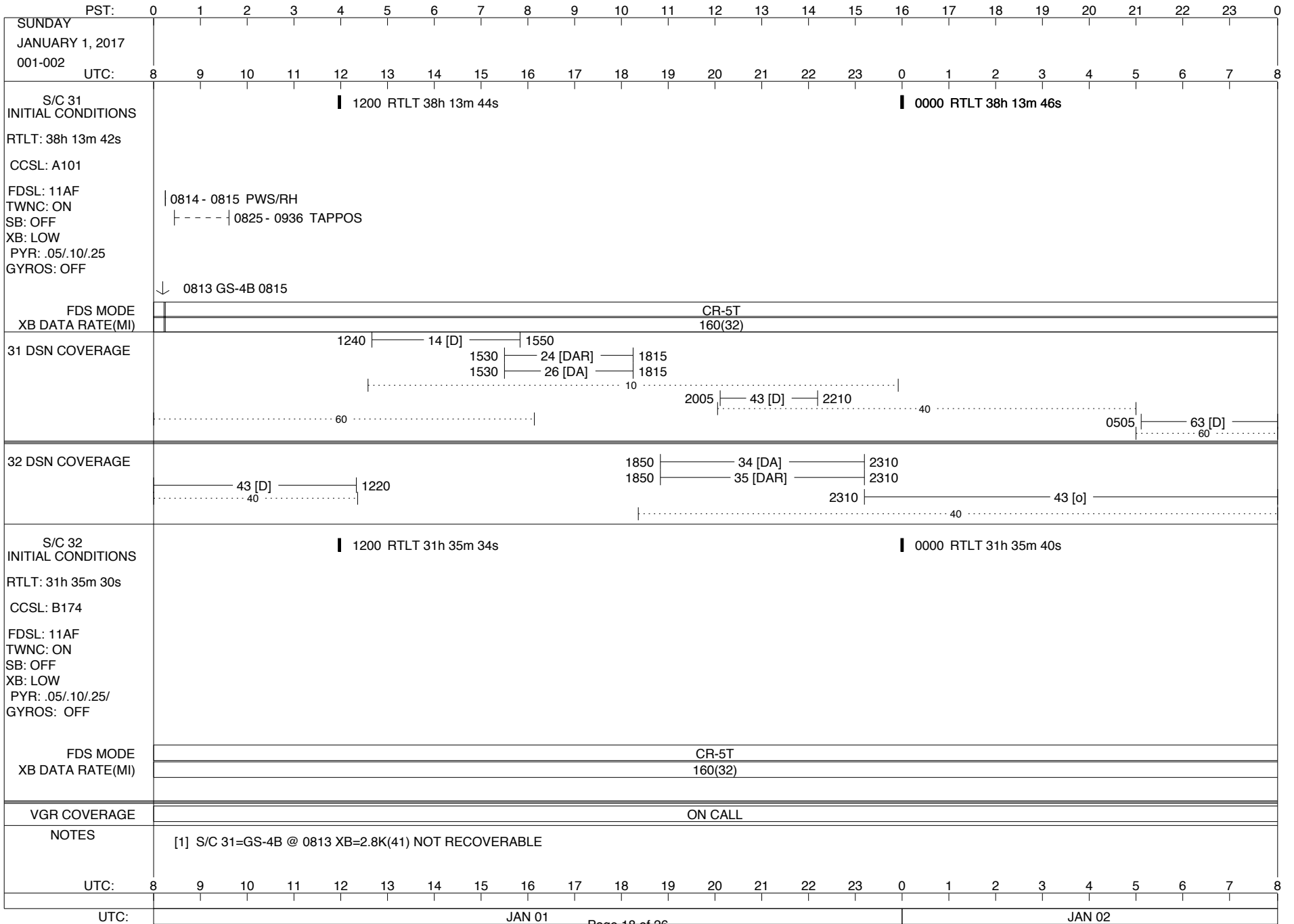
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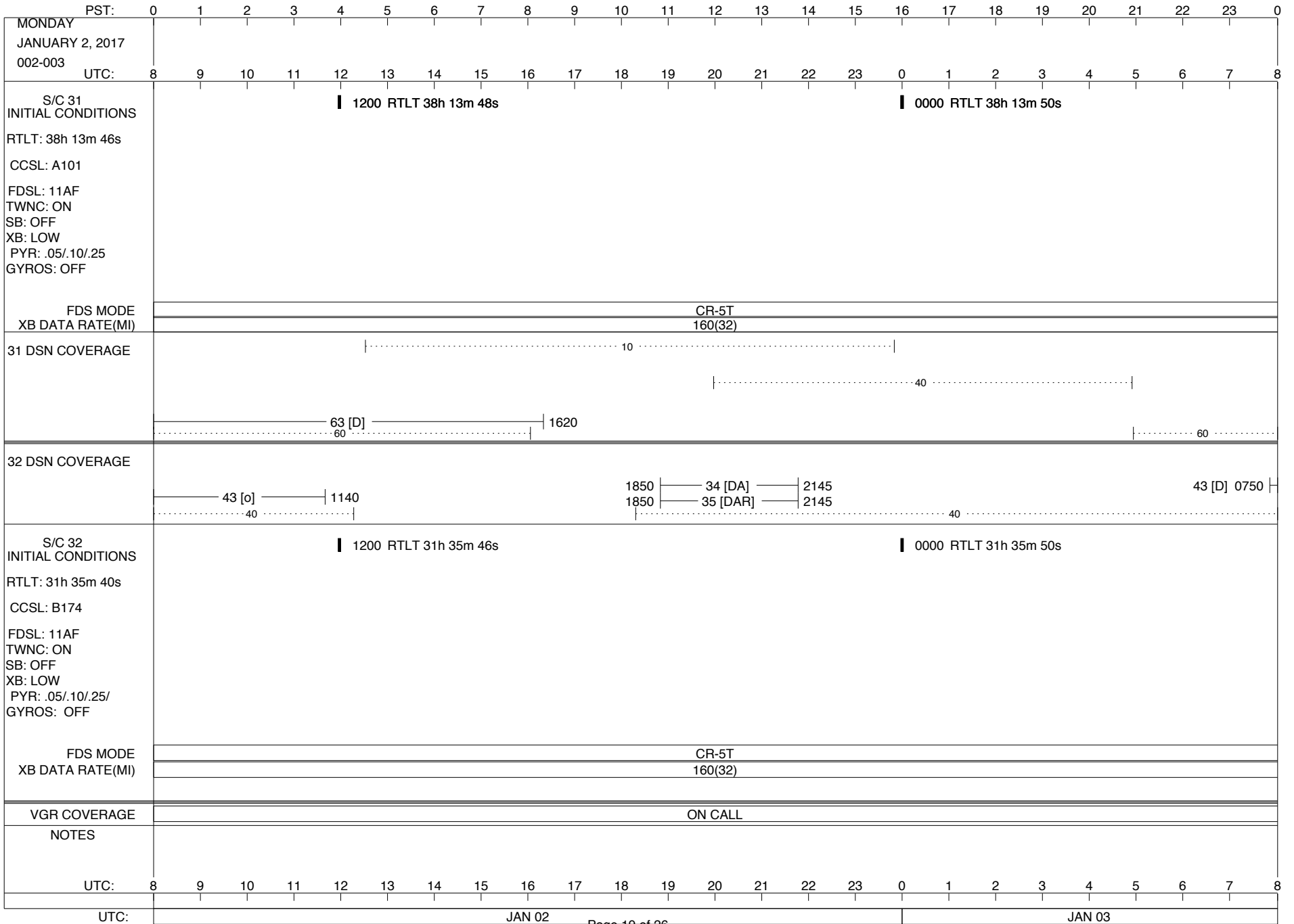


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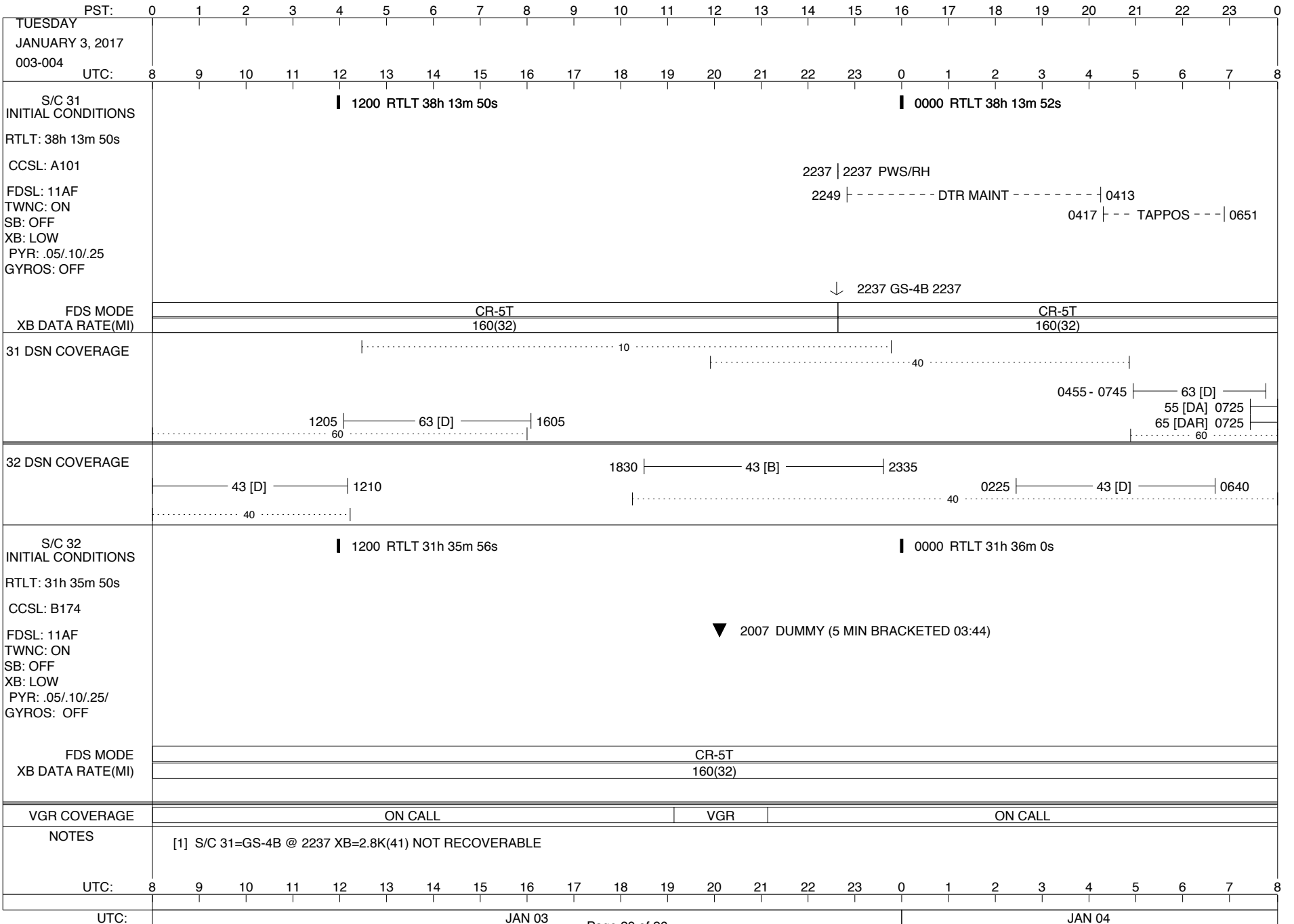


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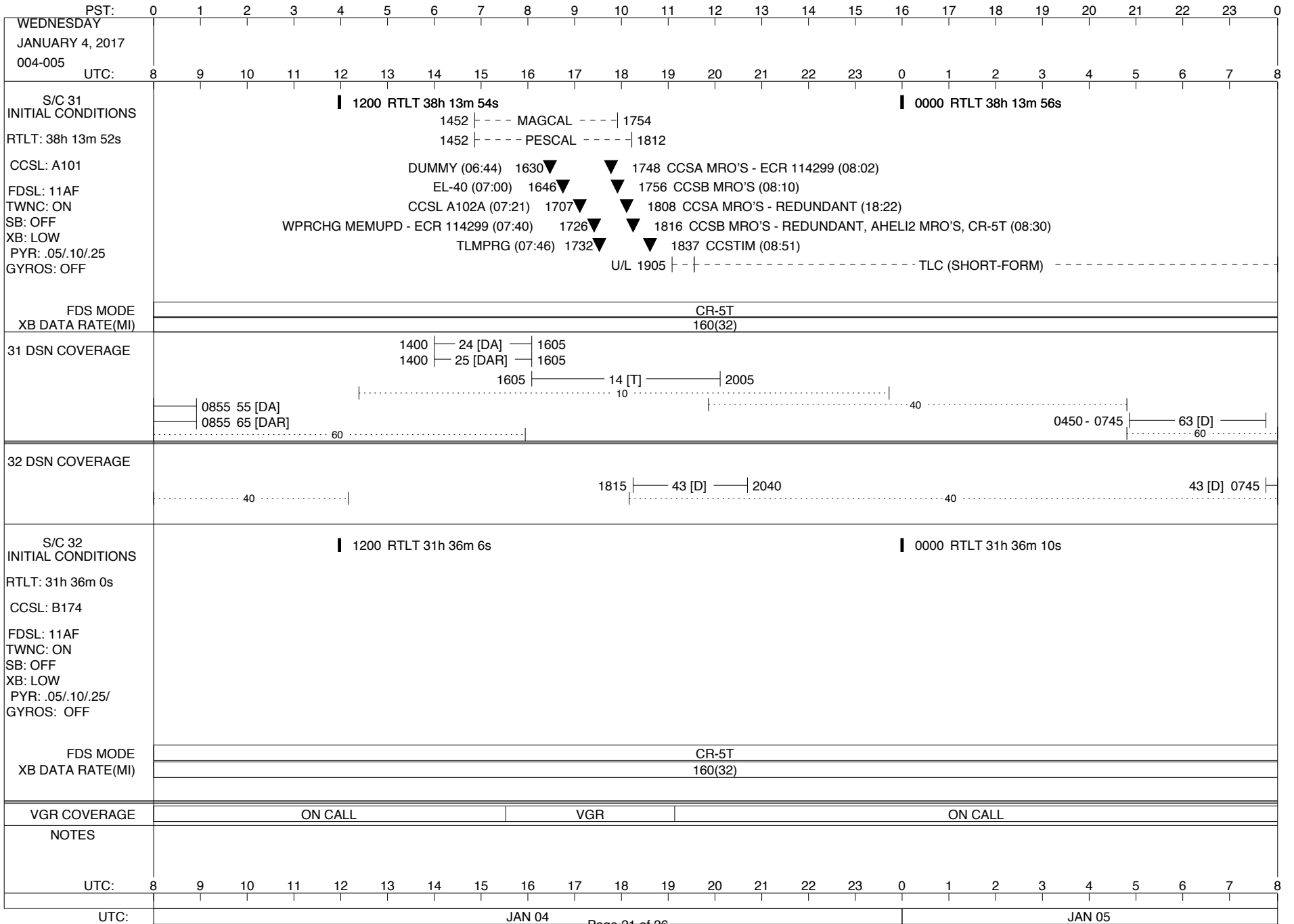




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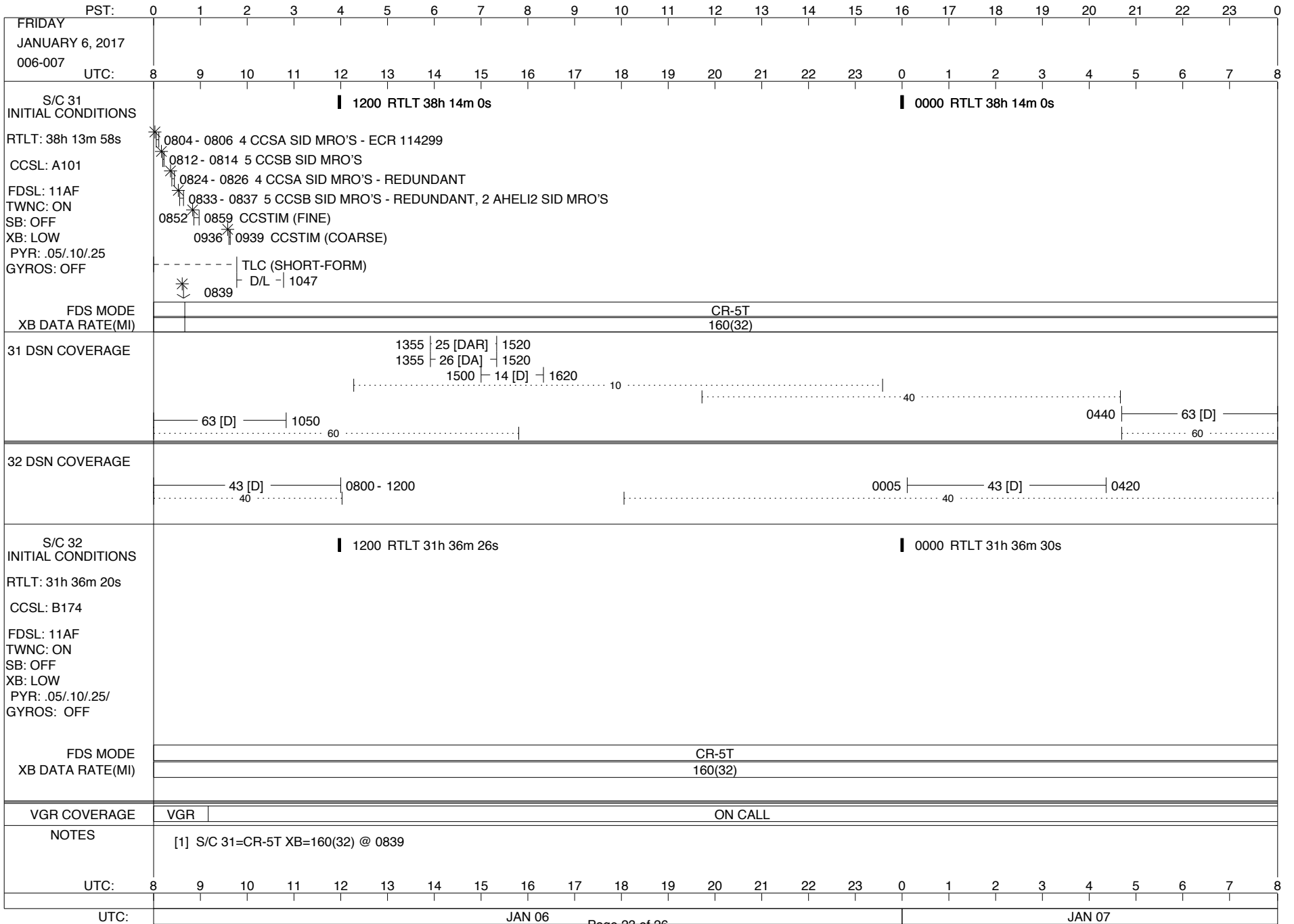
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THURSDAY JANUARY 5, 2017 005-006																										
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S/C 31 INITIAL CONDITIONS RTLT: 38h 13m 56s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 13m 56s												0000 RTLT 38h 13m 58s													
													A102A CHKSUM 0732 - 0736 WPRCHG - ECR 114299 0741 TLMPRG 0747 - 0759													
													0148 TAPPOS 0312 0450 0451 PWS/RH TAPPOS 0501 - - - - 0612													
	----- TLC (SHORT-FORM) -----																									
FDS MODE	CR-5T												0449 GS-4B 0451 ↓ EL-40 0701 ↕													
XB DATA RATE(MI)	160(32)												CR-5T EL-40 160(32) 40(30)													
31 DSN COVERAGE	1535 ----- 14 [D] ----- 1935 ----- 10 -----												----- 40 ----- 0445 ----- 63 [D] ----- ----- 60 -----													
32 DSN COVERAGE	43 [D] ----- 1205 ----- 40 -----												----- 40 ----- 43 [D] 0800 -----													
S/C 32 INITIAL CONDITIONS RTLT: 31h 36m 10s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLT 31h 36m 16s												0000 RTLT 31h 36m 20s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 0449 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31-EL-40 @ 0701 XB=40(30)																									
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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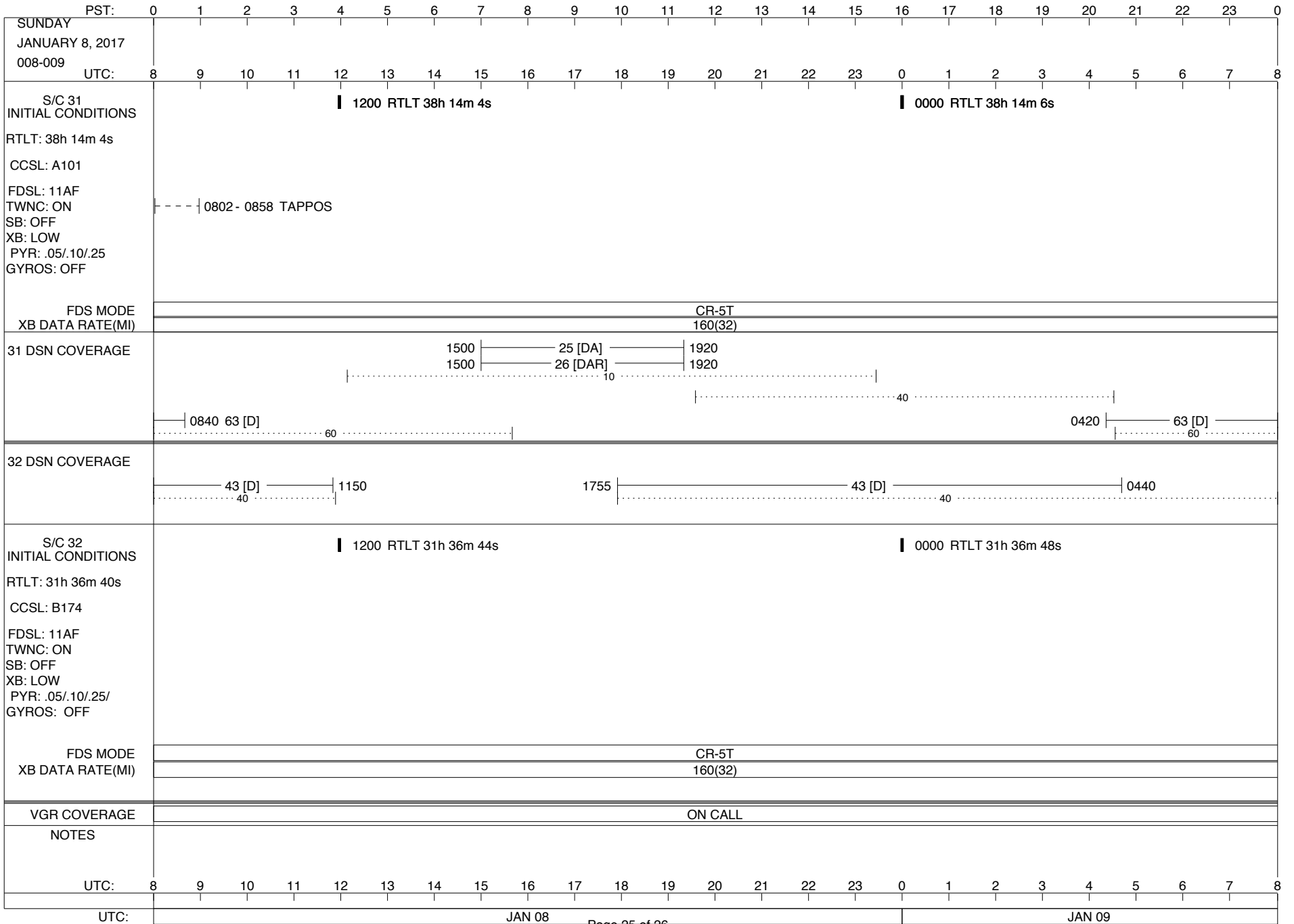
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ISSUE DATE: 12/15/16 06:34

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S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 0s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 38h 14m 2s												0000 RTLT 38h 14m 4s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE		<p>63 [D] 1030 0440 63 [D]</p> <p>60 60</p>																											
32 DSN COVERAGE		<p>0910 43 [D] 1155 2055 43 [D] 0155 43 [D] 0745</p> <p>40 40</p>																											
S/C 32 INITIAL CONDITIONS RTLTL: 31h 36m 30s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF		1200 RTLT 31h 36m 34s												0000 RTLT 31h 36m 40s															
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
VGR COVERAGE		ON CALL																											
NOTES		[1] S/C 31=GS-4B @ 0750 XB=2.8K(41) NOT RECOVERABLE																											
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 07														JAN 08													

ISSUE DATE: 12/15/16 06:34



ISSUE DATE: 12/15/16 06:34

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 JANUARY 9, 2017 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 RTLTL: 38h 14m 6s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 38h 14m 6s												█ 0000 RTLTL 38h 14m 8s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1205 ----- 14 [D] ----- 1425											 10												
	- 63 [D] - 0915											 60												
32 DSN COVERAGE 40																								
S/C 32 INITIAL CONDITIONS RTLTL: 31h 36m 48s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 31h 36m 54s																								
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 09												JAN 10												