

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 21, 2016

For the Period: 12/29/16 to 01/23/17 (16-364 – 17-023)

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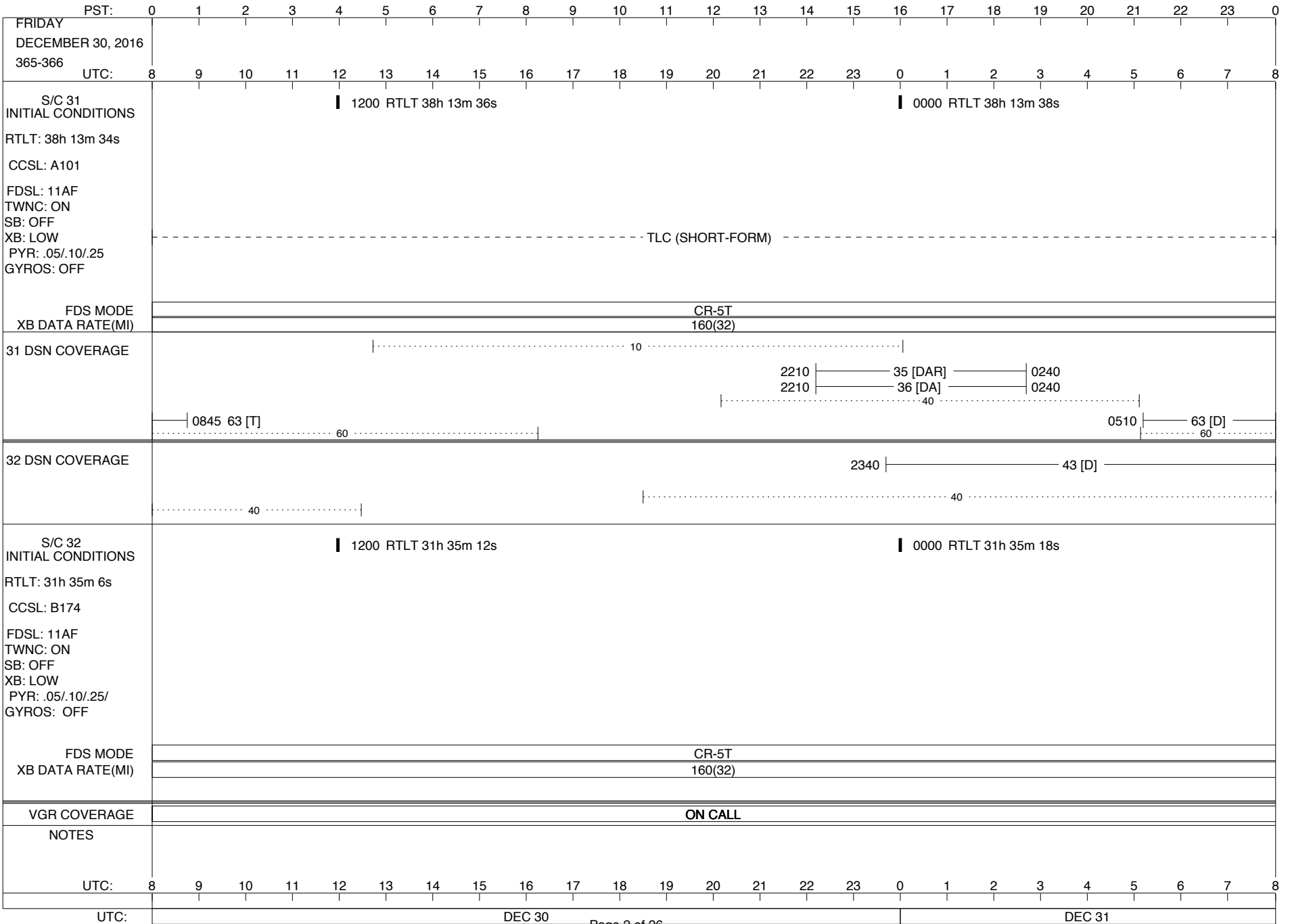
LEGEND:
 ▽ = R/T Command (Last chance or Contingency)
 ▼ = R/T Command (Scheduled)
 * = Result of R/T Command
 n = (where n = 1,2,3 ..) Special Note, see bottom of page
 A = Arrayed station
 B = BLF
 D = Downlink only pass
 H = High Power Transmitter
 R = Array Reference Antenna
 T = TLC Uplink
 U =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

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

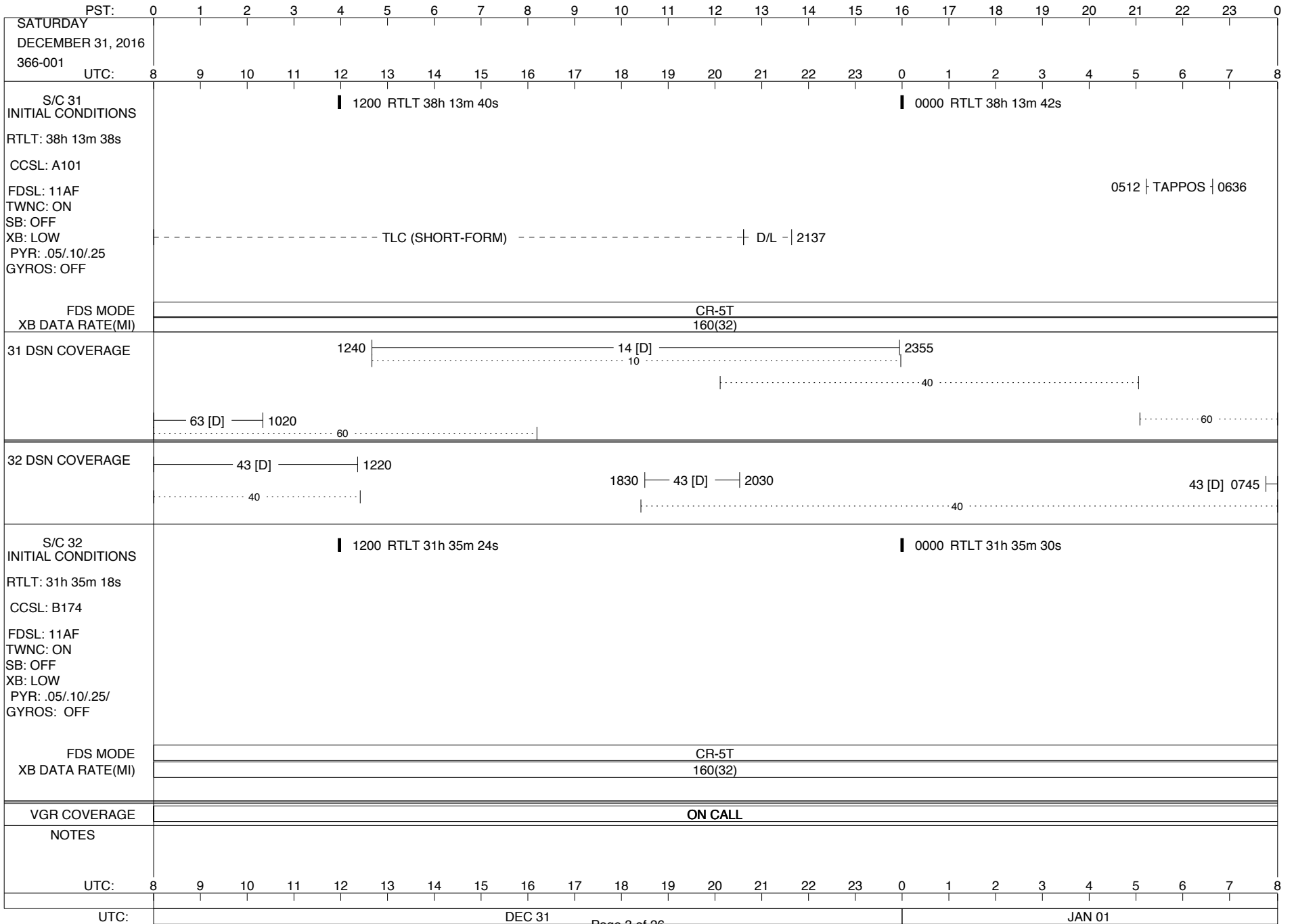
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 13m 30s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 38h 13m 32s												0000 RTLT 38h 13m 34s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>1250 ----- 14 [D] ----- 1545</p> <p>1525 ----- 25 [DAR] ----- 1910</p> <p>1525 ----- 26 [DA] ----- 1910</p> <p>..... ----- 10 ----- 40 ----- 0515 ----- 63 [T] ----- 60</p> <p> ----- 0845 63 [D] ----- 60 ----- </p>																								
32 DSN COVERAGE	<p> ----- 43 [D] ----- 0830 - 1230</p> <p>..... ----- 40 ----- 1835 ----- 43 [D] ----- 2040</p> <p>..... ----- 0125 ----- 34 [D] ----- 0535</p> <p>..... ----- 40 ----- </p>																								
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												

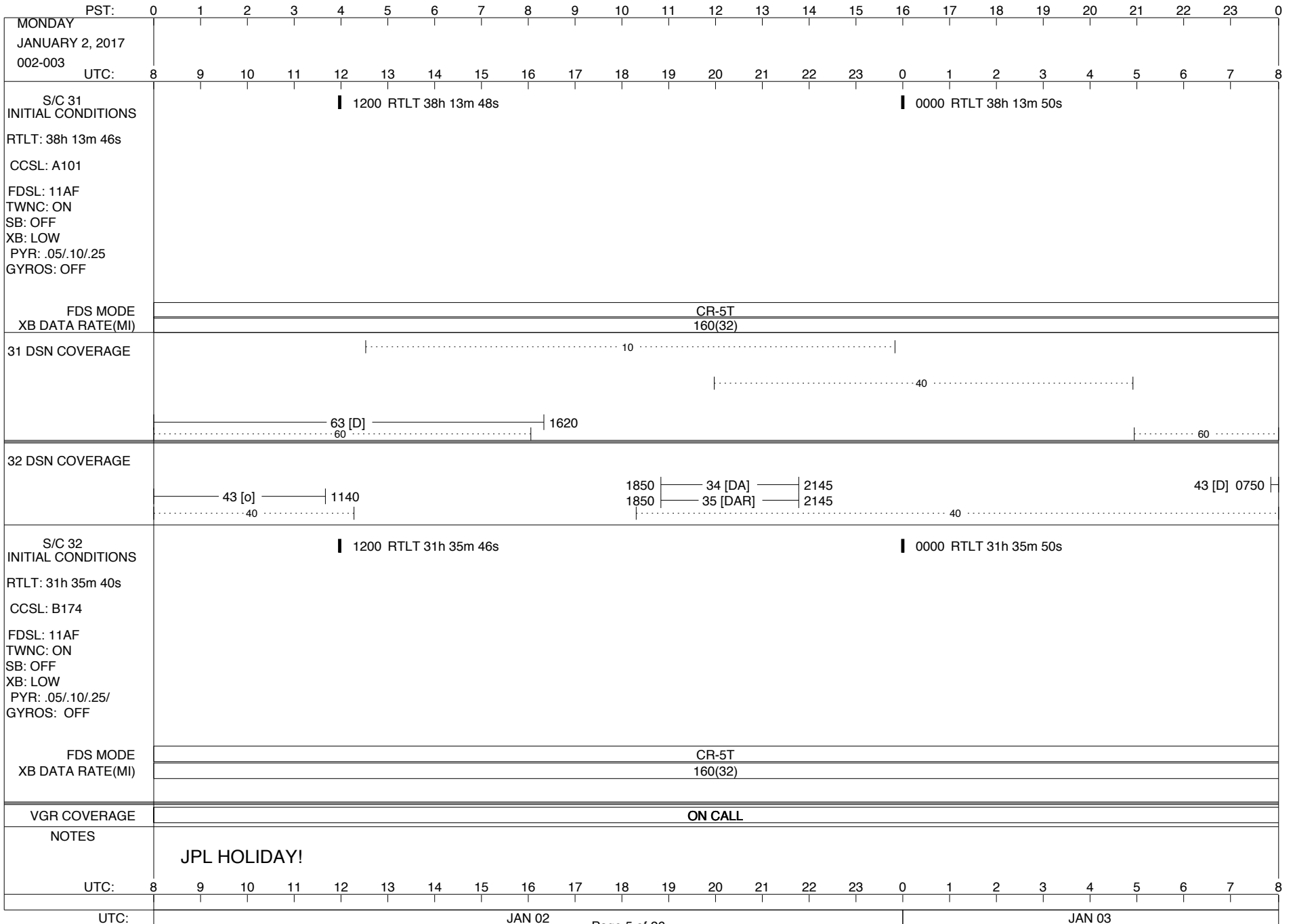
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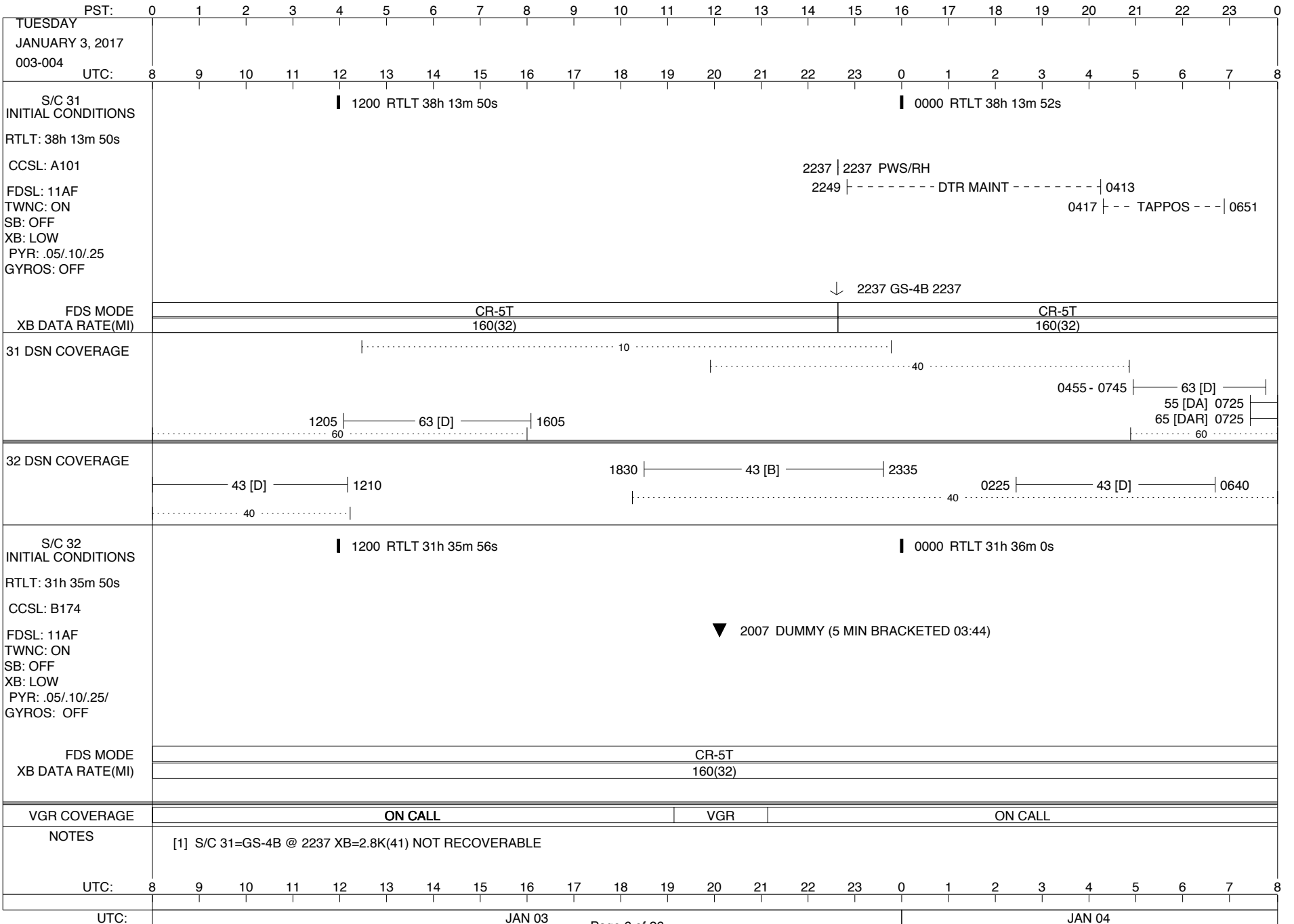
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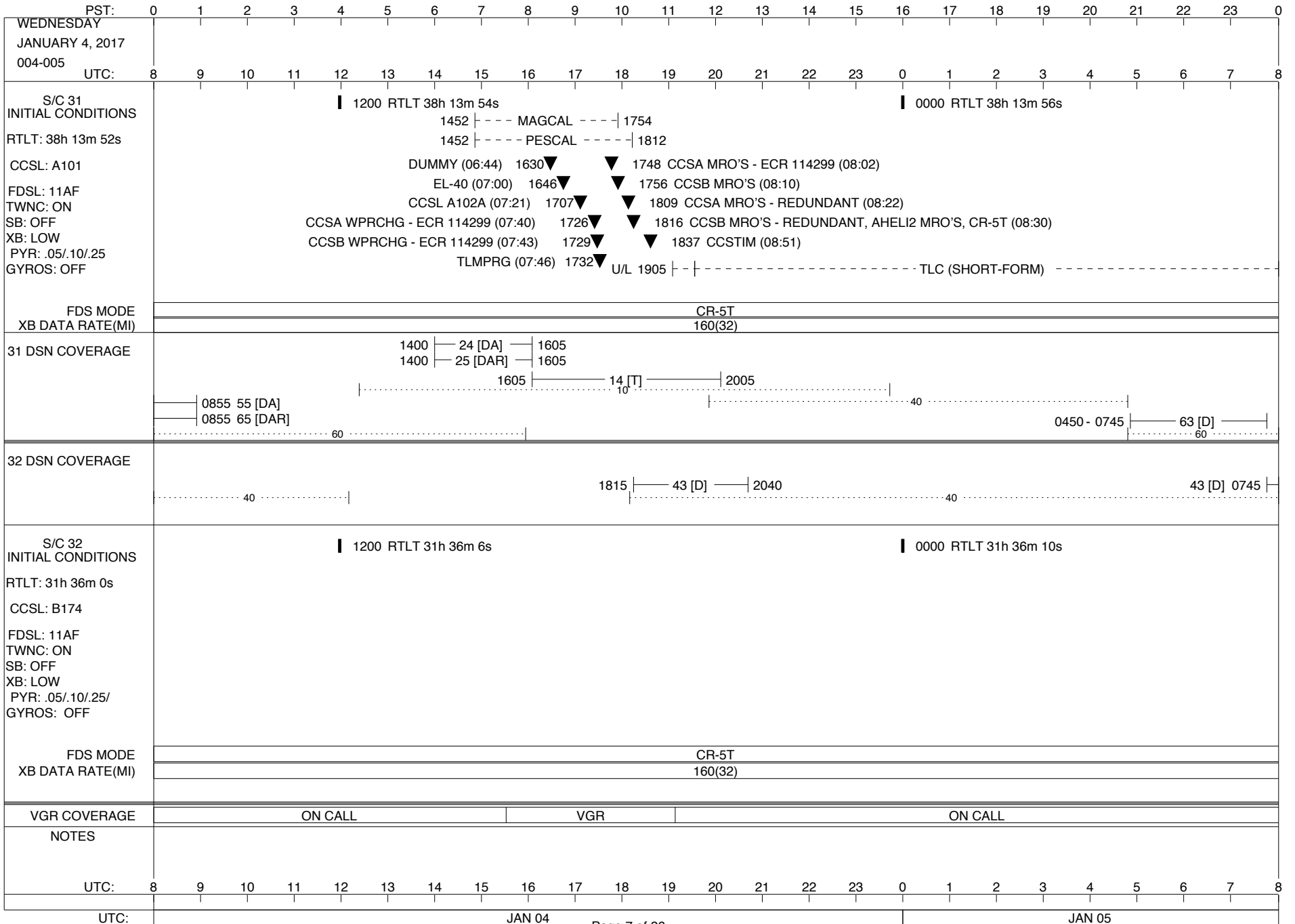
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 13m 42s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 38h 13m 44s												█ 0000 RTLTL 38h 13m 46s													
↓ 0813 GS-4B 0815																										
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
31 DSN COVERAGE	<p>1240 ----- 14 [D] ----- 1550</p> <p>1530 ----- 24 [DAR] ----- 1815</p> <p>1530 ----- 26 [DA] ----- 1815</p> <p>2005 ----- 43 [D] ----- 2210</p> <p>60 ----- 60</p> <p>0505 ----- 63 [D] ----- 60</p>																									
32 DSN COVERAGE	<p>43 [D] ----- 1220</p> <p>1850 ----- 35 [DAR] ----- 2310</p> <p>1850 ----- 34 [DA] ----- 2310</p> <p>2310 ----- 43 [o] ----- 40</p>																									
S/C 32 INITIAL CONDITIONS RTLTL: 31h 35m 30s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 31h 35m 34s												█ 0000 RTLTL 31h 35m 40s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 0813 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	
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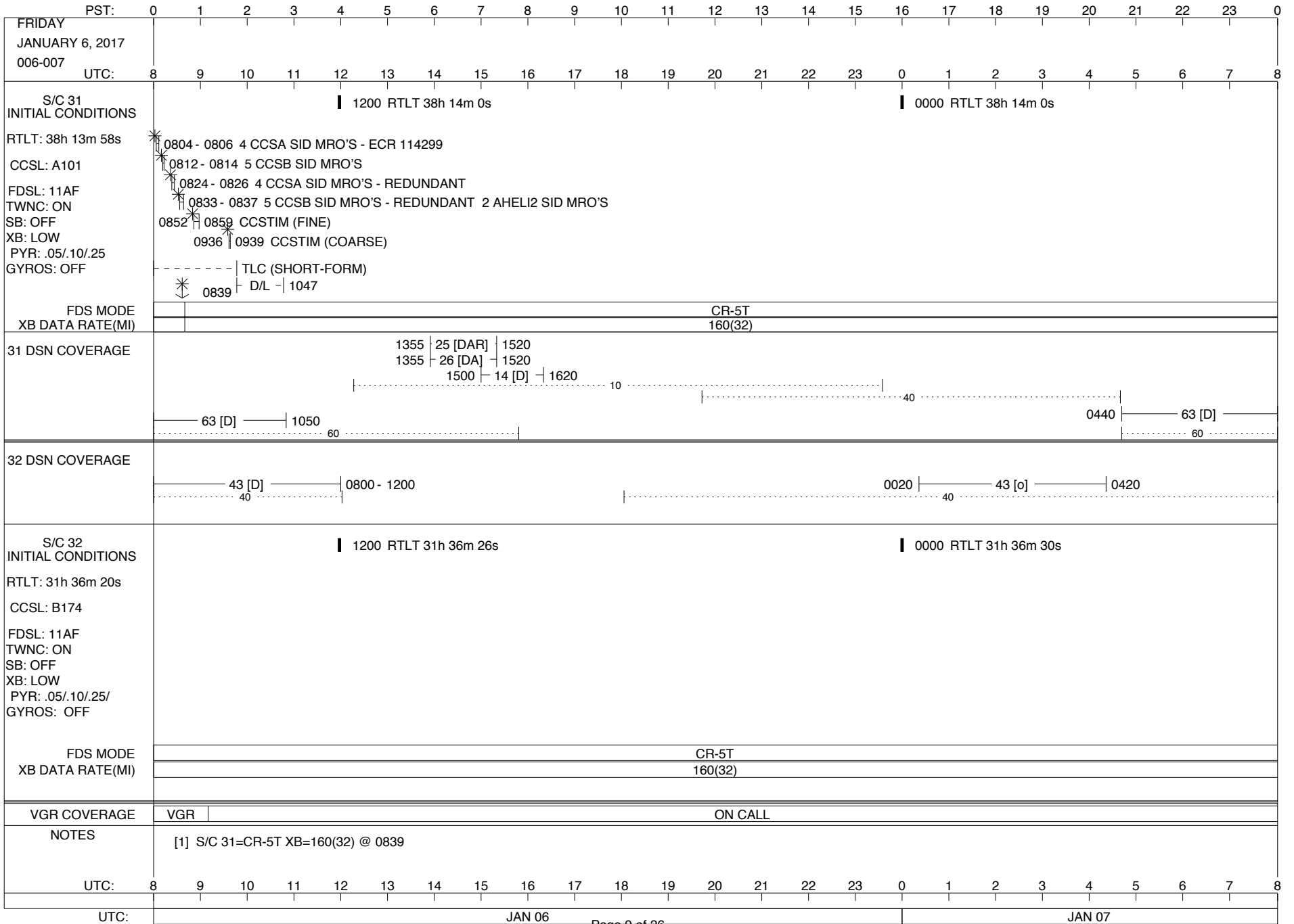
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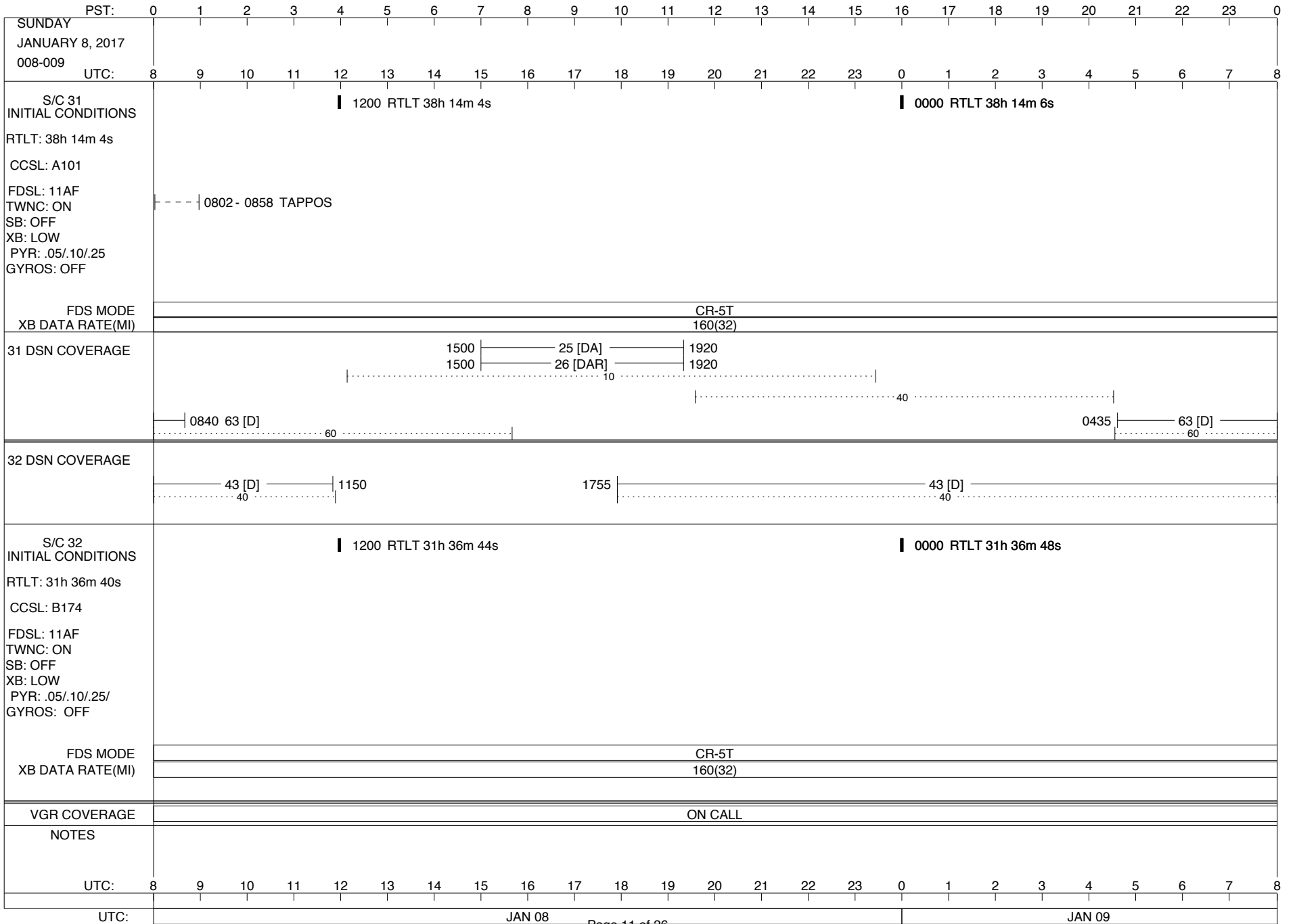
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SATURDAY JANUARY 7, 2017 007-008	
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8	
S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 0s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 38h 14m 2s</p> <p>0000 RTLTL 38h 14m 4s</p> <p>TAPPOS 0448 - - - - 0558 PWS/RH 0750 - 0751</p> <p>0750 GS-4B 0751 ↓</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE	<p>63 [D] 1030</p> <p>60 40 0440 63 [D] 60</p>
32 DSN COVERAGE	<p>0910 43 [D] 1155</p> <p>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	<p>1200 RTLTL 31h 36m 34s</p> <p>0000 RTLTL 31h 36m 40s</p>
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 Page 10 of 26 JAN 08

ISSUE DATE: 01/03/17 13:34

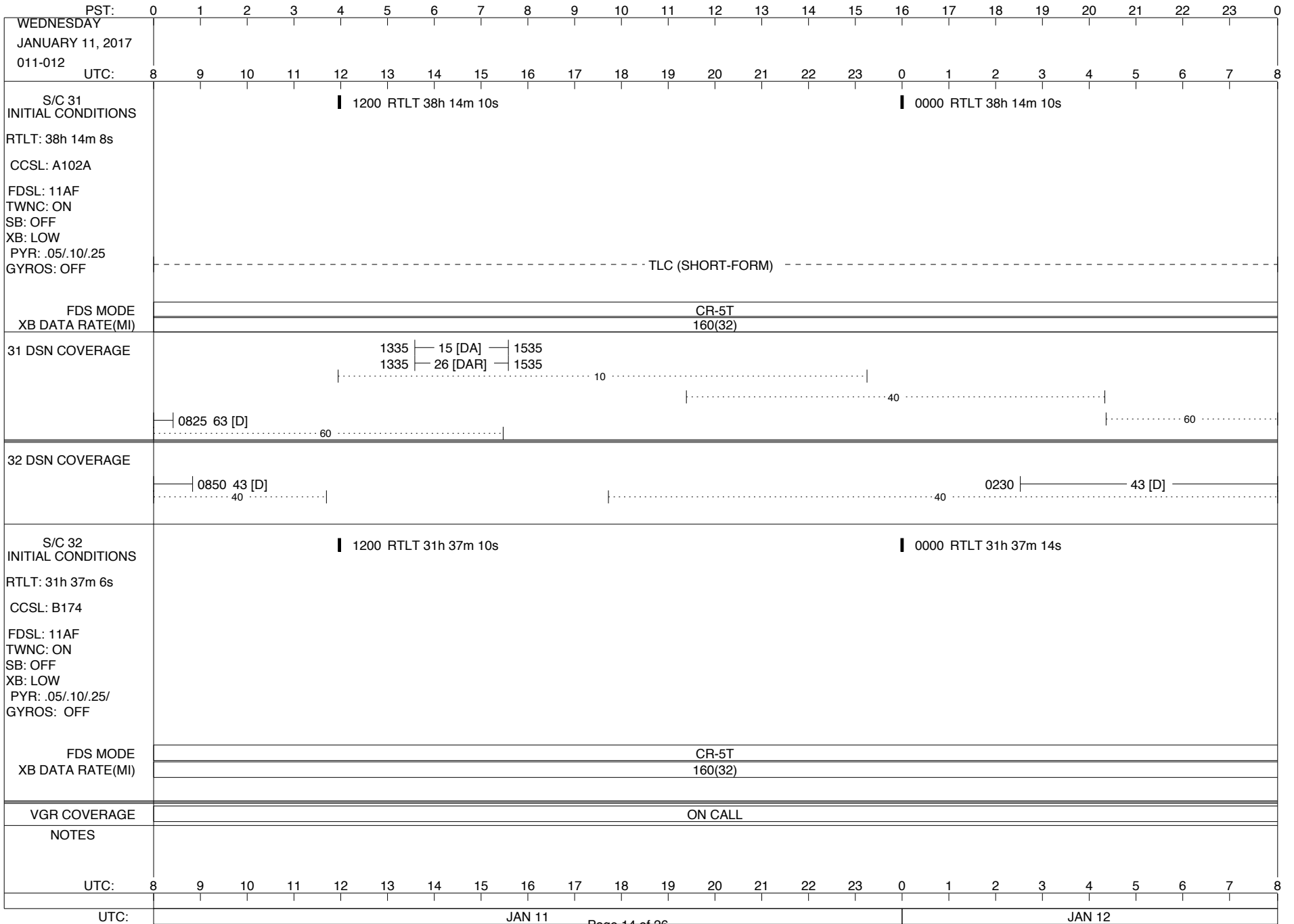


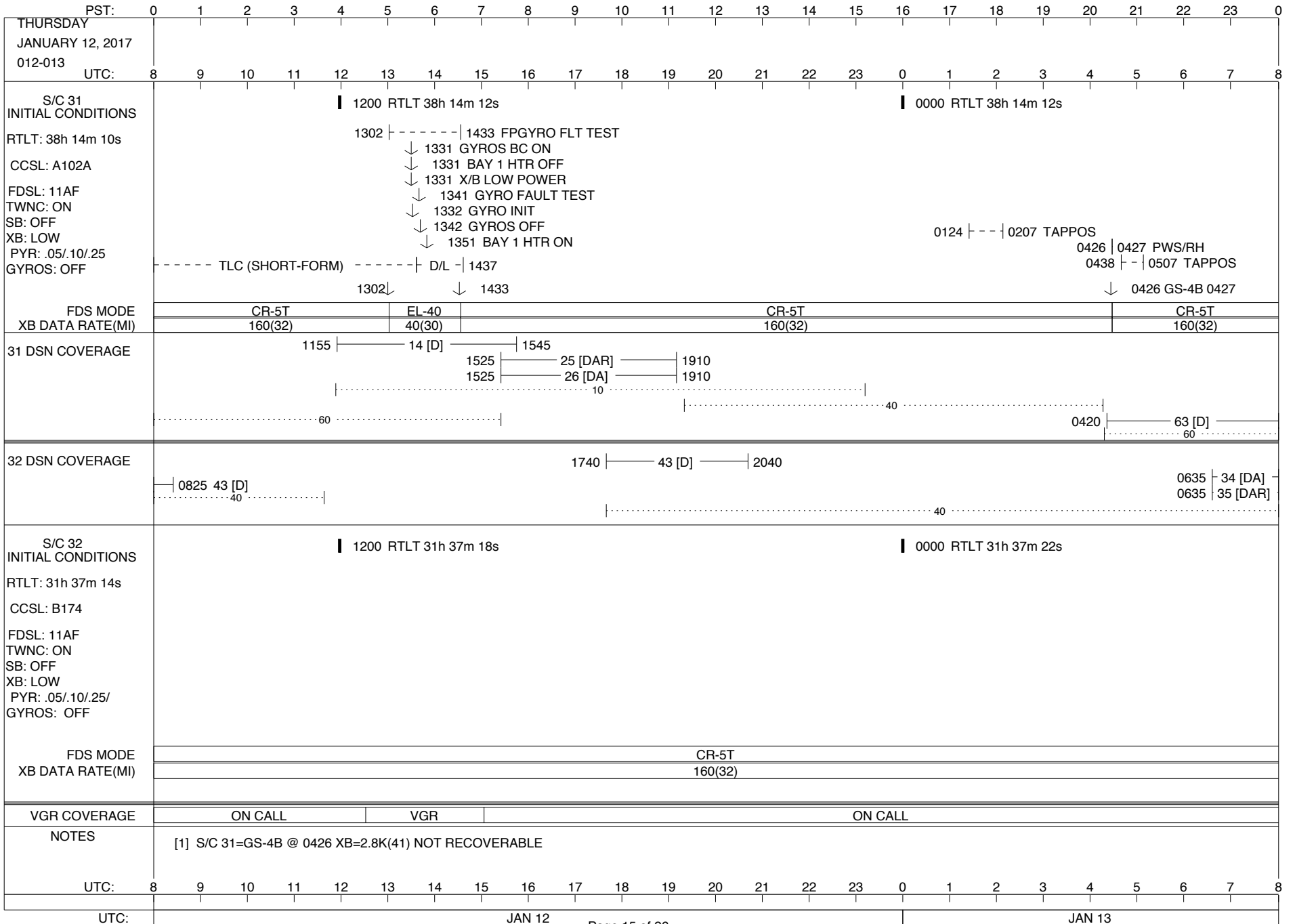
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 6s CCSL: A101 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 14m 6s												0000 RTLTL 38h 14m 8s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1205 14 [D] 1425												10 40 60 63 [D] 0915												
32 DSN COVERAGE	0840 43 [D]												1755 43 [B] 0010 43 [D] 0725												
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												0000 RTLTL 31h 36m 58s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR ON CALL												
NOTES	1907 DUMMY (5 MIN BRACKETED 02:44)																								
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: 01/03/17 13:34

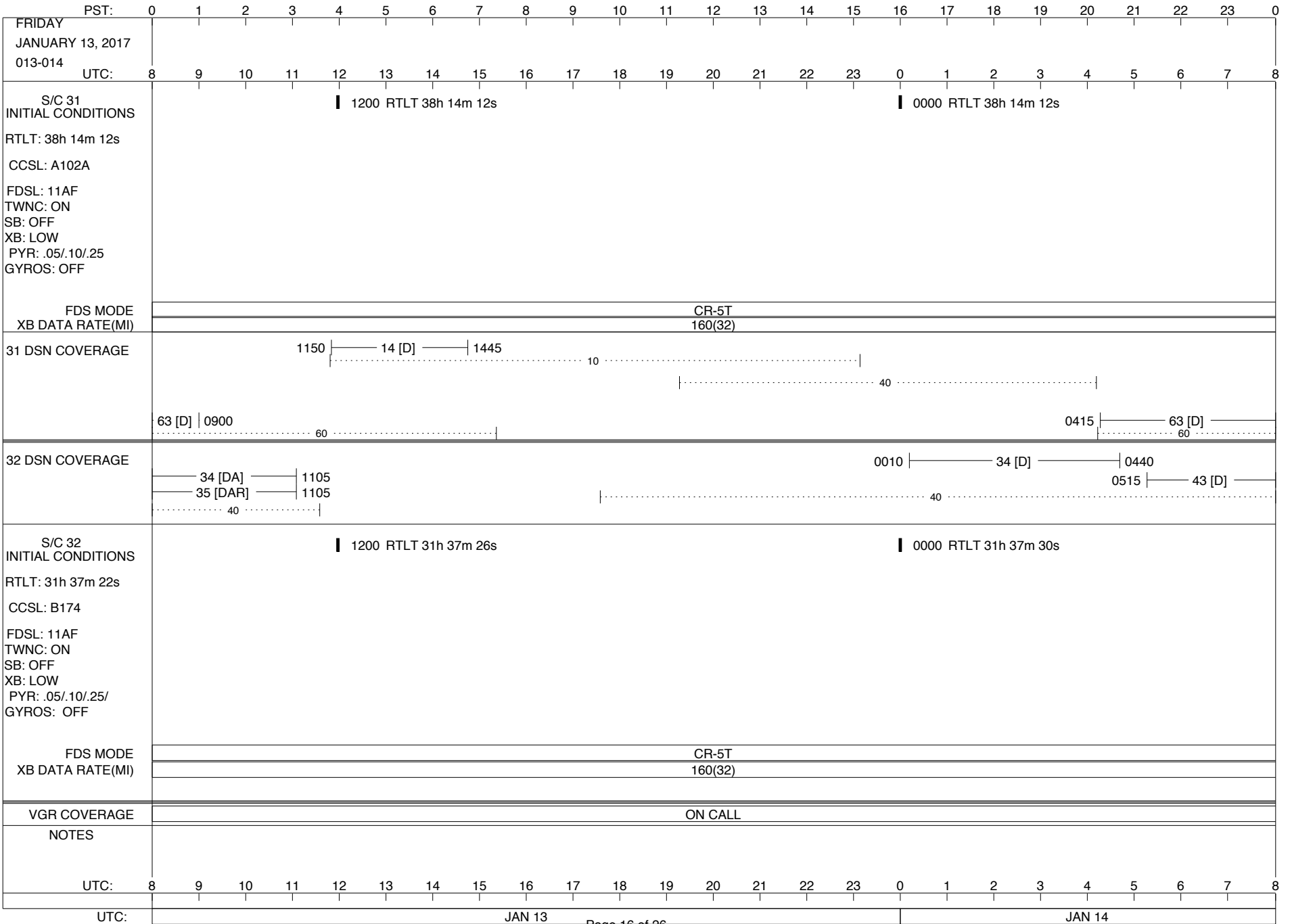
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		UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	
S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 8s CCSL: A102A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF FDS MODE XB DATA RATE(MI)		1200 RTLTL 38h 14m 8s													0000 RTLTL 38h 14m 8s													
															▼ 2145 DUMMY (11:59) 2213 2214 PWS/RH U/L 2255 - - - - - - TLC (SHORT-FORM) - - - - - ↓ 2213 GS-4B 2214													
		CR-5T 160(32)													CR-5T 160(32)													
31 DSN COVERAGE		1340 25 [DAR] 1545 1340 26 [DA] 1545 60 10 1945 43 [T1] 2325 0425 63 [D] 60																										
32 DSN COVERAGE	 43 [D] 1145 0010 43 [D] 40 40																										
S/C 32 INITIAL CONDITIONS RTLTL: 31h 36m 58s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF FDS MODE XB DATA RATE(MI)		1200 RTLTL 31h 37m 2s													0000 RTLTL 31h 37m 6s													
															0011 PLSCAL - 0153 0011 - - - MAGCAL - - - 0313 0011 - - - PESCAL - - - 0331													
		CR-5T 160(32)																										
VGR COVERAGE		ON CALL													VGR			ON CALL										
NOTES		[1] S/C 31 FPGYRO FLT TEST DISA LAST CHANCE U/L OPP [2] S/C 31=GS-4B @ 2213 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: 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 10													UTC: JAN 11													

ISSUE DATE: 01/03/17 13:34



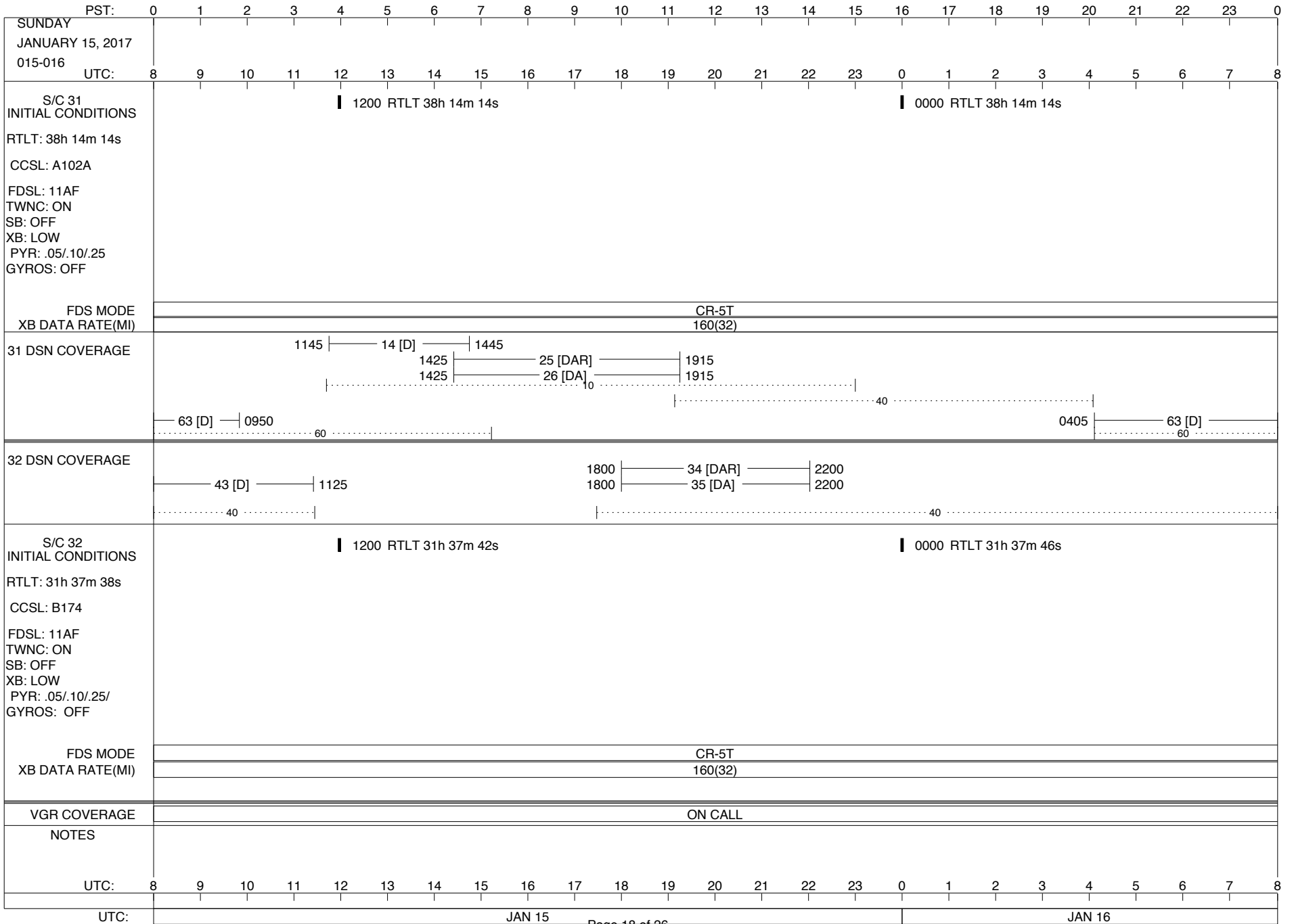


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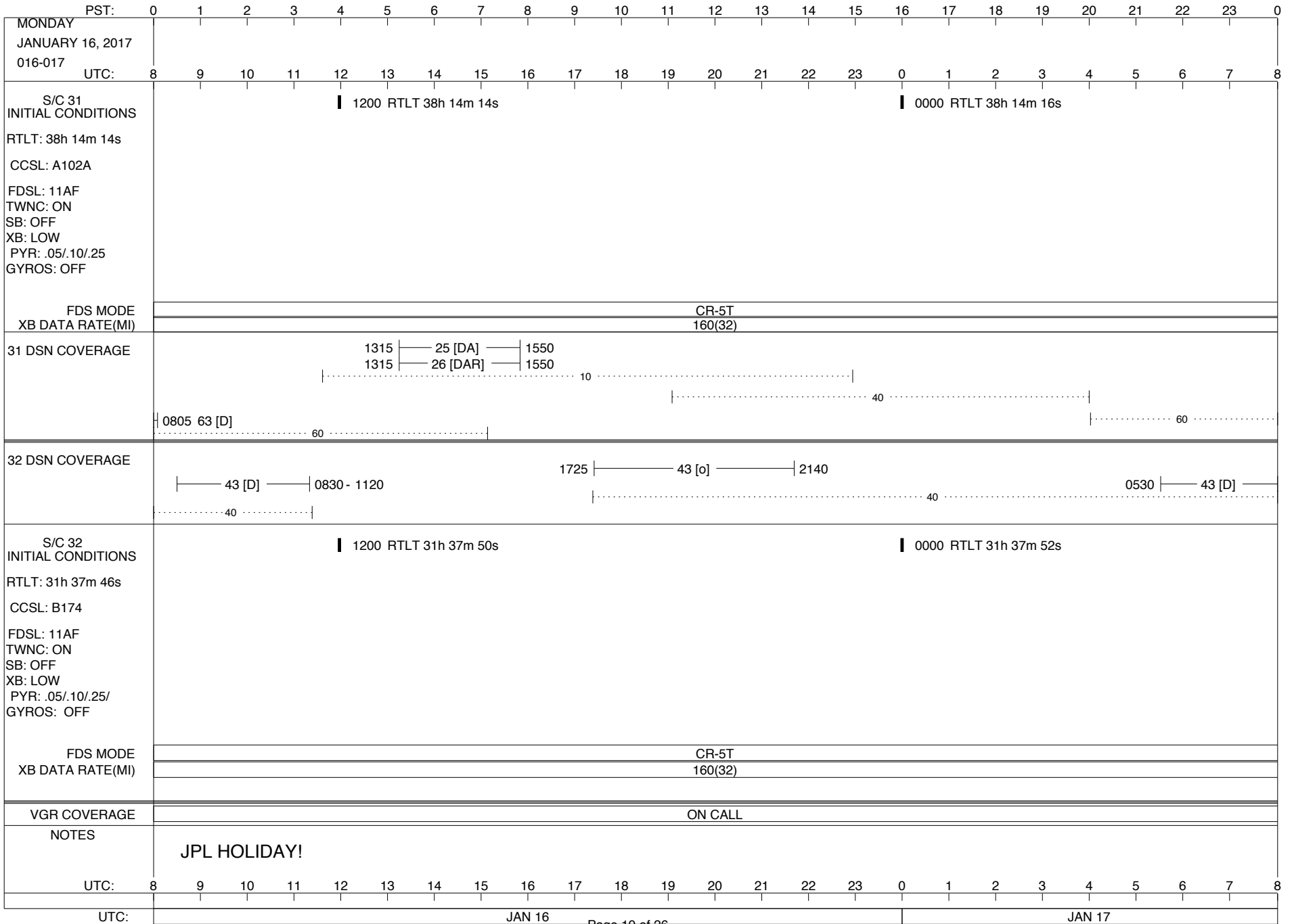


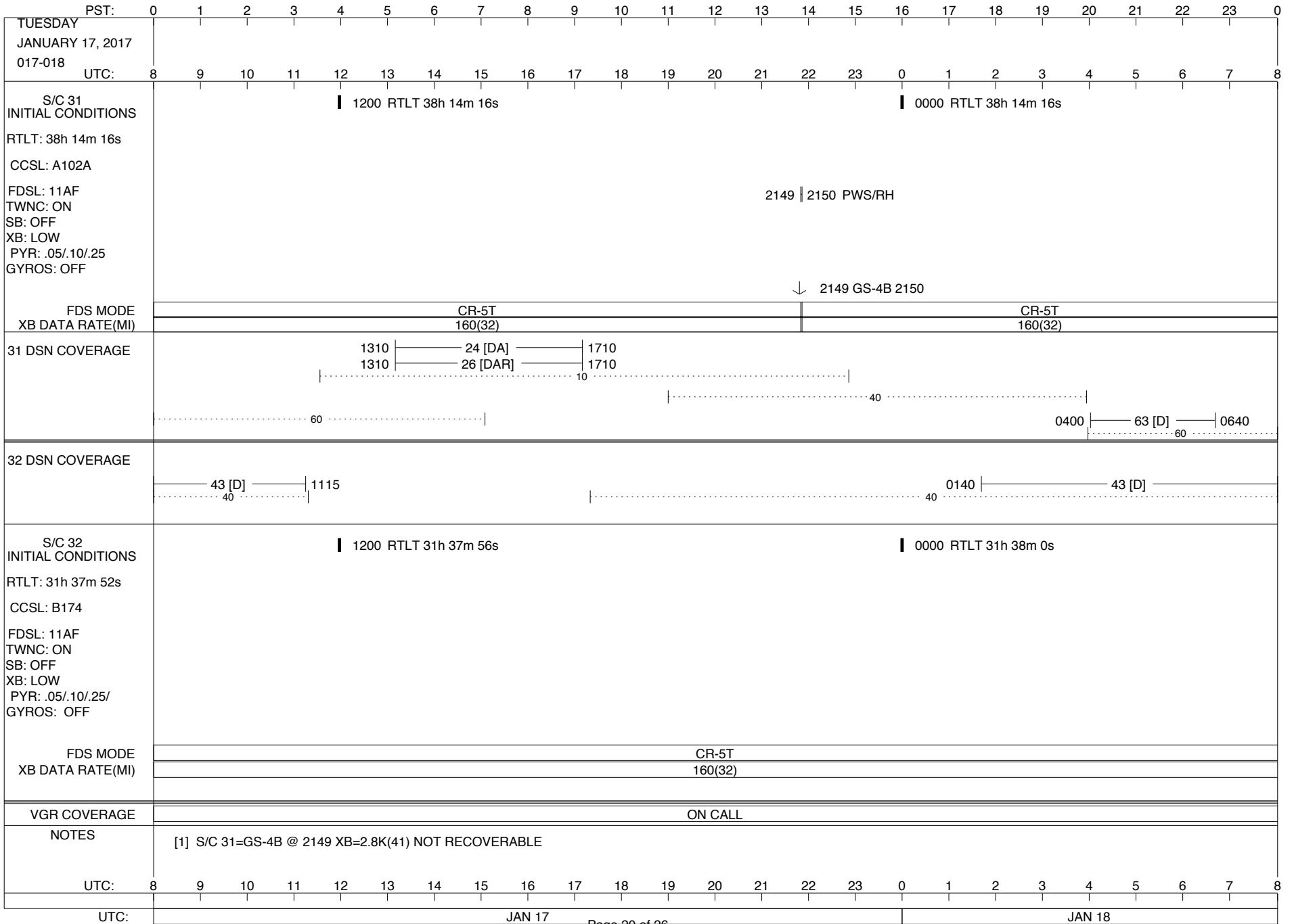
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S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 12s CCSL: A102A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 14m 14s												0000 RTLTL 38h 14m 14s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	1325 ----- 15 [DA] ----- 1815 1325 ----- 25 [DAR] ----- 1815 ----- 10 ----- 40 63 [D] ----- 0945 ----- 60 ----- 60 ----- 0410 ----- 63 [D] ----- 60 ----- 60																								
32 DSN COVERAGE	43 [D] ----- 1130 ----- 40 1800 ----- 35 [DAR] ----- 2115 1800 ----- 36 [DA] ----- 2115 ----- 40 ----- 40												0555 ----- 43 [D]												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 37m 30s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 37m 34s												0000 RTLTL 31h 37m 38s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0726 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 14												JAN 15												

ISSUE DATE: 01/03/17 13:34

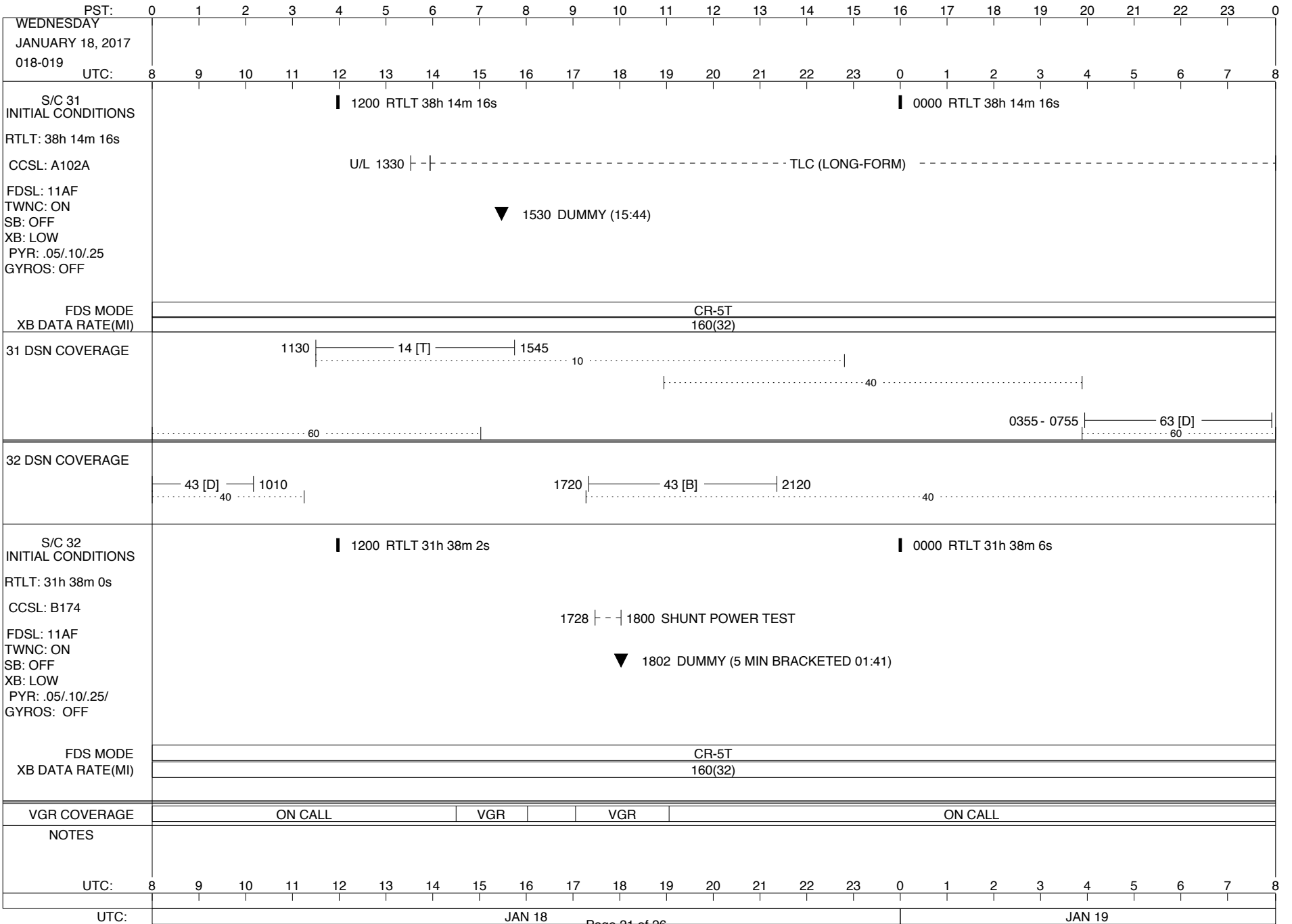


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ISSUE DATE: 01/03/17 13:34

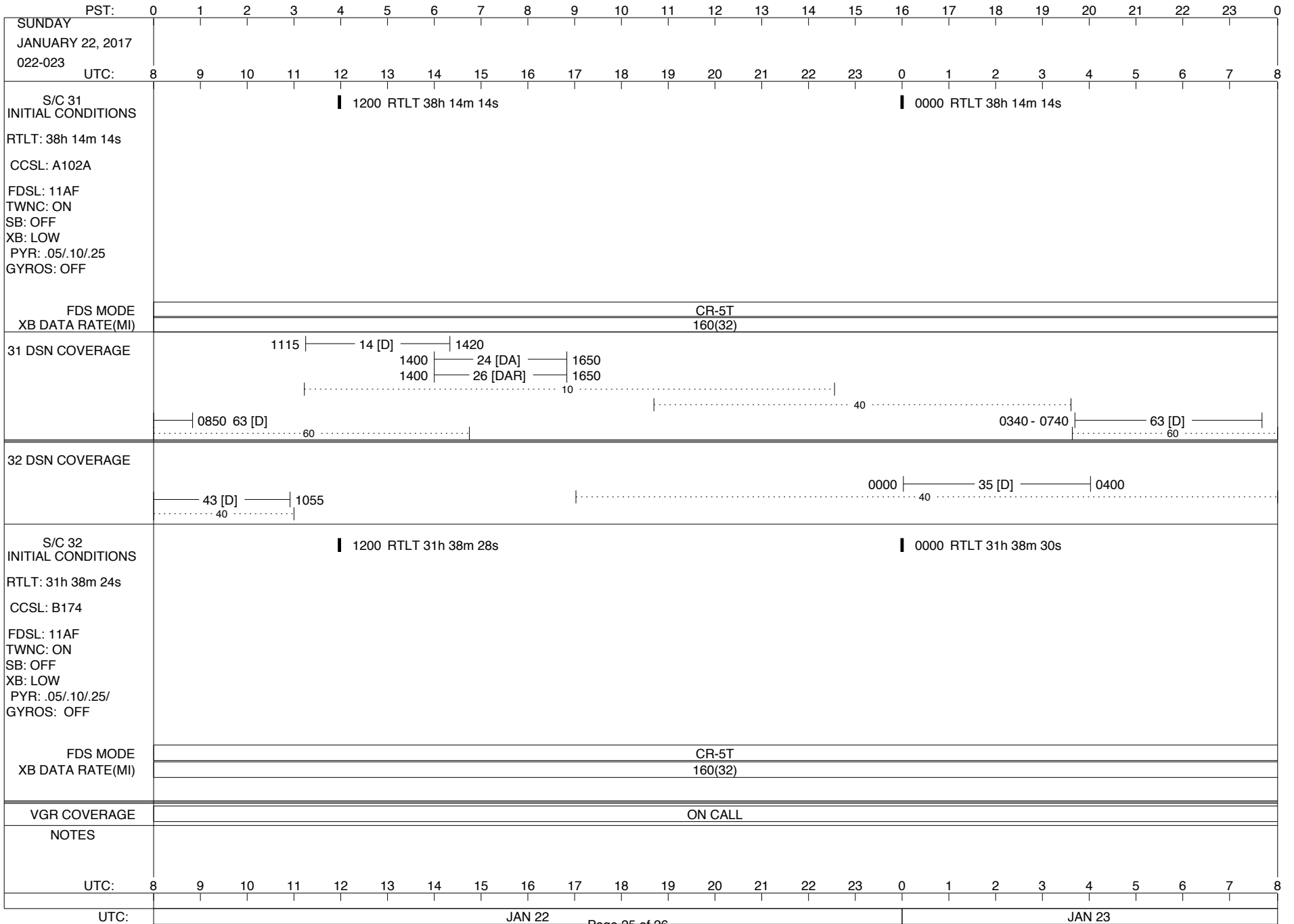


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S/C 31 INITIAL CONDITIONS RTLTL: 38h 14m 16s CCSL: A102A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 38h 14m 16s												█ 0000 RTLTL 38h 14m 16s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1305 25 [DAR] 1445 1305 26 [DA] 1445 10 40 60												0100 0101 TAPPOS 0402 0403 PWS/RH 0414 0426 TAPPOS ↓ 0402 GS-4B 0403												
32 DSN COVERAGE 40												2025 36 [DA] 0005 2025 35 [DAR] 0425 40												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 38m 6s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	█ 1200 RTLTL 31h 38m 10s												█ 0000 RTLTL 31h 38m 12s												
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 @ 0402 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 19												JAN 20												

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																													
JANUARY 20, 2017																													
020-021																													
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 38h 14m 16s														0000 RTLT 38h 14m 16s													
RTLT: 38h 14m 16s																													
CCSL: A102A																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25																													
GYROS: OFF																													
FDS MODE																CR-5T													
XB DATA RATE(MI)																160(32)													
31 DSN COVERAGE		<p>1125 ----- 14 [D] ----- 1550</p> <p>0345 ----- 63 [D] ----- 0600</p>																											
32 DSN COVERAGE		<p>0045 ----- 34 [DA] ----- 0315</p> <p>2330 ----- 43 [DAR] ----- 0400</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 31h 38m 16s														0000 RTLT 31h 38m 18s													
RTLT: 31h 38m 12s																													
CCSL: B174																													
FDSL: 11AF																													
TWNC: ON																													
SB: OFF																													
XB: LOW																													
PYR: .05/.10/.25/																													
GYROS: OFF																													
FDS MODE		CR-5T														CR-5T													
XB DATA RATE(MI)		160(32)														160(32)													
VGR COVERAGE		ON CALL														VGR				ON CALL									
NOTES		<ul style="list-style-type: none"> ↓ 0101 BAY 1 HTR OFF ↓ 0101 GYROS BC ON ↓ 0102 GYRO INIT ↓ 0111 GYRO FAULT TEST <ul style="list-style-type: none"> ↓ 0201 AAI 0204 ----- 0237 MAGROL - 1 REV ----- ↓ 0241 RAI ↓ 0247 GYROS OFF ↓ 0255 BAY 1 HTR ON ↓ 0104 EL-40 0105 																											
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 20														JAN 21													

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 21, 2017 021-022	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 16s CCSL: A102A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 38h 14m 16s												0000 RTLTL 38h 14m 14s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1415 14 [D] 1710												0345 63 [D]												
32 DSN COVERAGE	43 [DAR] 1055												1735 35 [DA] 1920 1735 36 [DAR] 1920 1900 43 [D] 2055												
S/C 32 INITIAL CONDITIONS RTLTL: 31h 38m 18s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	1200 RTLTL 31h 38m 22s												0000 RTLTL 31h 38m 24s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0702 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
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ISSUE DATE: 01/03/17 13:34

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S/C 31 INITIAL CONDITIONS RTLT: 38h 14m 14s CCSL: A102A FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 38h 14m 14s</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>1110 14 [D] 1230</p> <p>..... 10</p> <p>..... 60</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>..... 40</p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 31h 38m 30s CCSL: B174 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25/ GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 31h 38m 34s</p> </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:	JAN 23												JAN 24												