

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 20, 2017

For the Period: 12/21/17 to 01/22/18 (17/355 – 18/022)

DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu Leonard.F.Burlaga@nasa.gov Donald-Gurnett@uiowa.edu	Dodd, S. Hall, J. Howard, S. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

LEGEND:

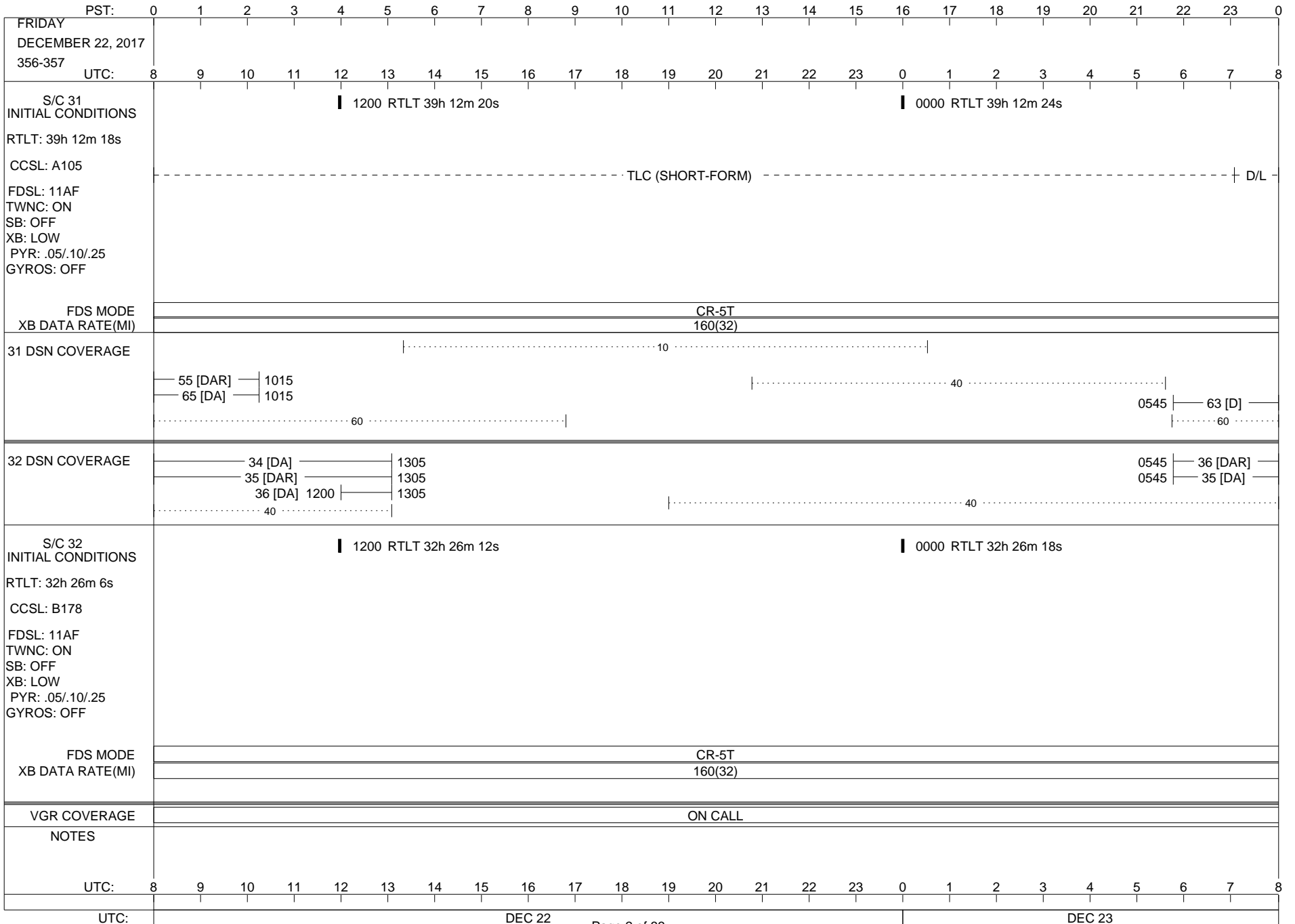
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- * = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U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

Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

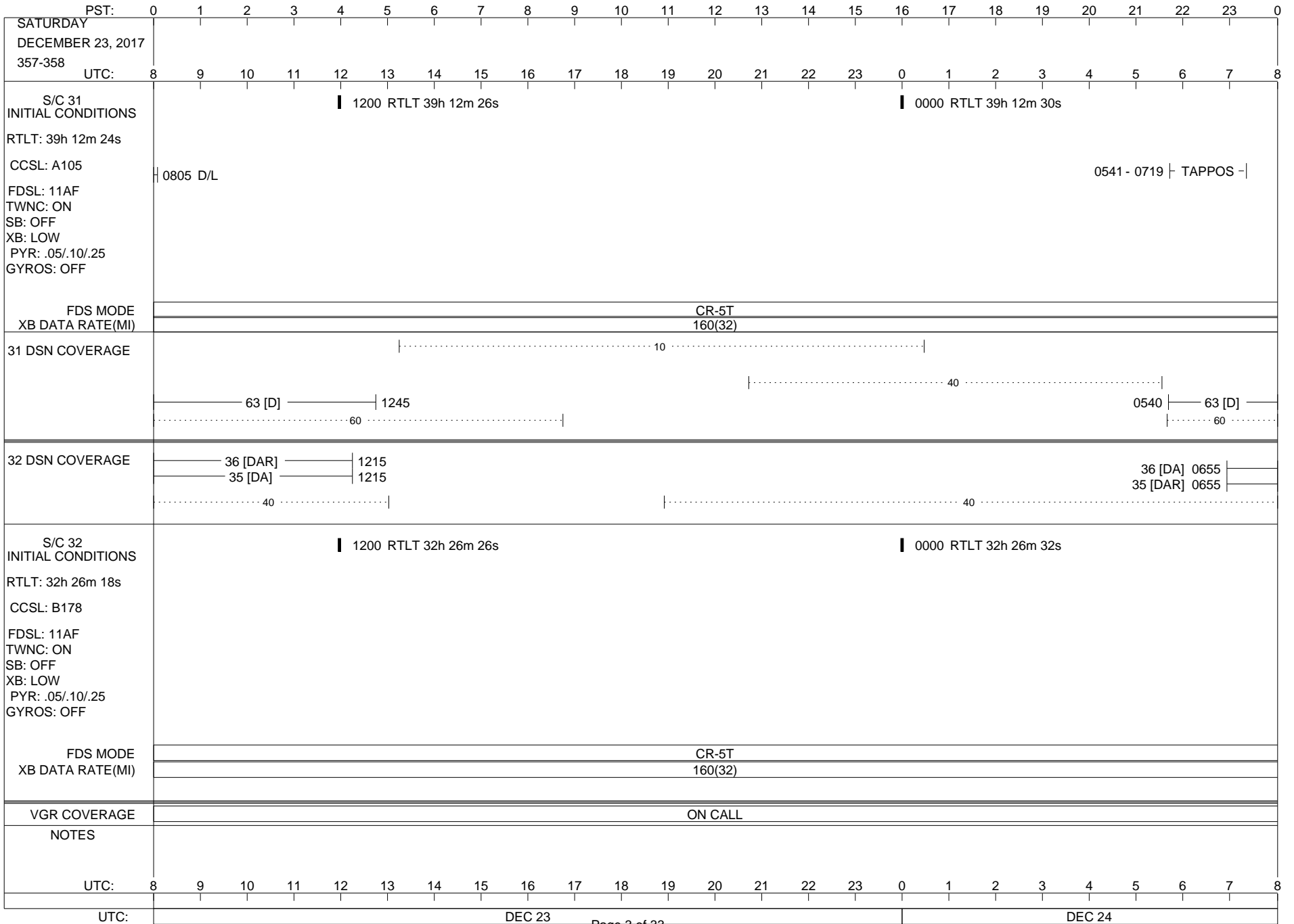
02/27/17

ISSUE DATE: 12/20/17 11:29

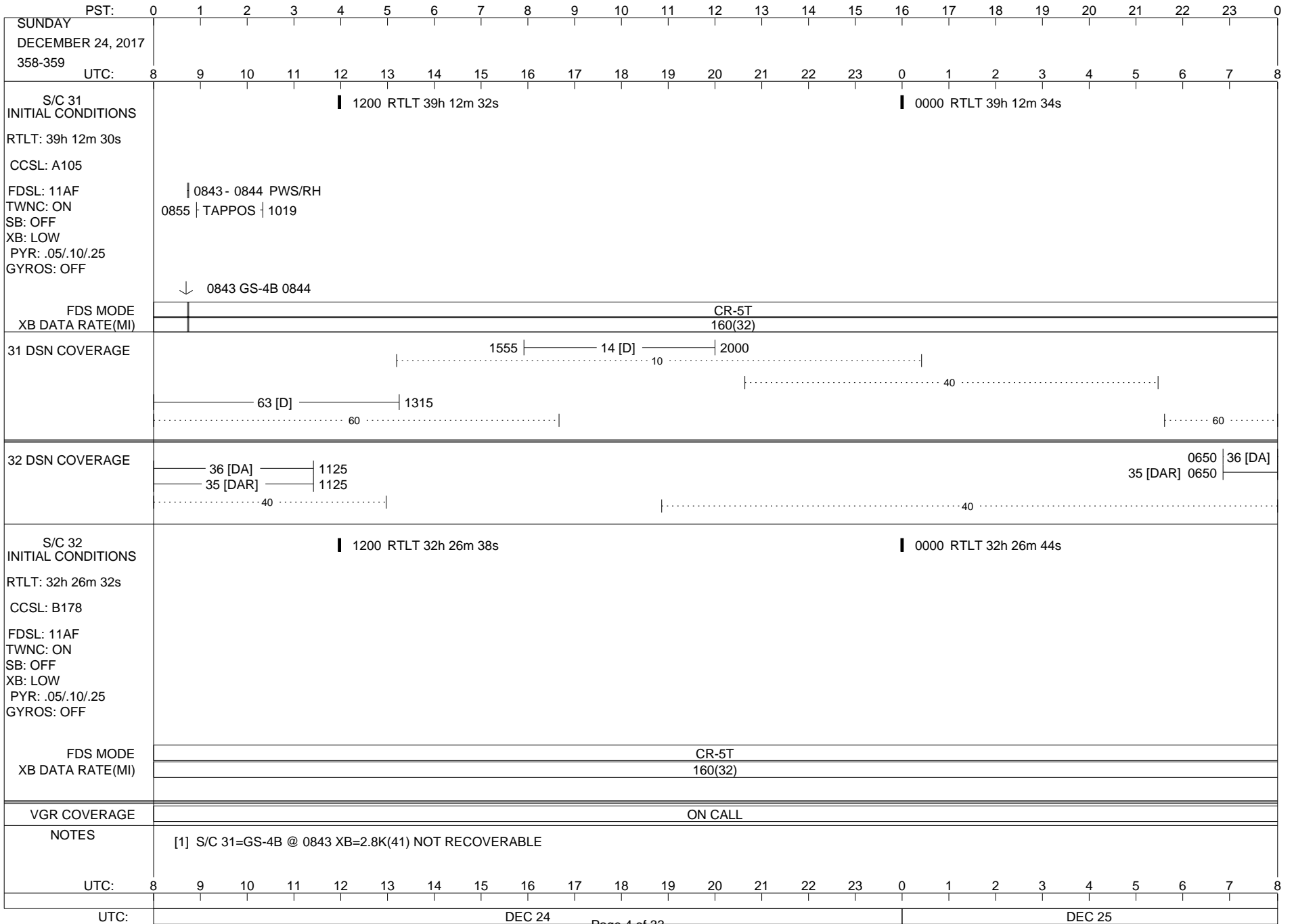
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THURSDAY																													
DECEMBER 21, 2017																													
355-356																													
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S/C 31 INITIAL CONDITIONS		1200 RTLT 39h 12m 14s														0000 RTLT 39h 12m 18s													
RTLT: 39h 12m 10s		▼ 1500 DUMMY (06:12)																											
CCSL: A105		U/L 1525 | - | ----- TLC (SHORT-FORM) -----																											
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)													
31 DSN COVERAGE		<p>1340 |-----| 14 [T] |-----| 1725</p> <p>2100 | 24 [DA] | 2245</p> <p>2100 | 25 [DAR] | 2245</p> <p>0550 - 0745 | 63 [D] |</p> <p>55 [DAR] 0745</p> <p>65 [DA] 0745</p> <p>60 |-----| 10 |-----| 40 |-----| 60</p>																											
32 DSN COVERAGE		<p>35 [DAR] |-----| 1305</p> <p>36 [DA] |-----| 1305</p> <p>34 [DA] 1200 |-----| 1305</p> <p>40 |-----| 40</p> <p>0640 | 34 [DA] |</p> <p>35 [DAR] 0640 |</p>																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 32h 25m 58s														0000 RTLT 32h 26m 6s													
RTLT: 32h 25m 52s																													
CCSL: B178																													
FDSL: 11AF		0850 | - | 0922 SHUNT POWER TEST																											
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		[1] S/C 31=GS-4B @ 0543 XB=2.8K(41) NOT RECOVERABLE																											
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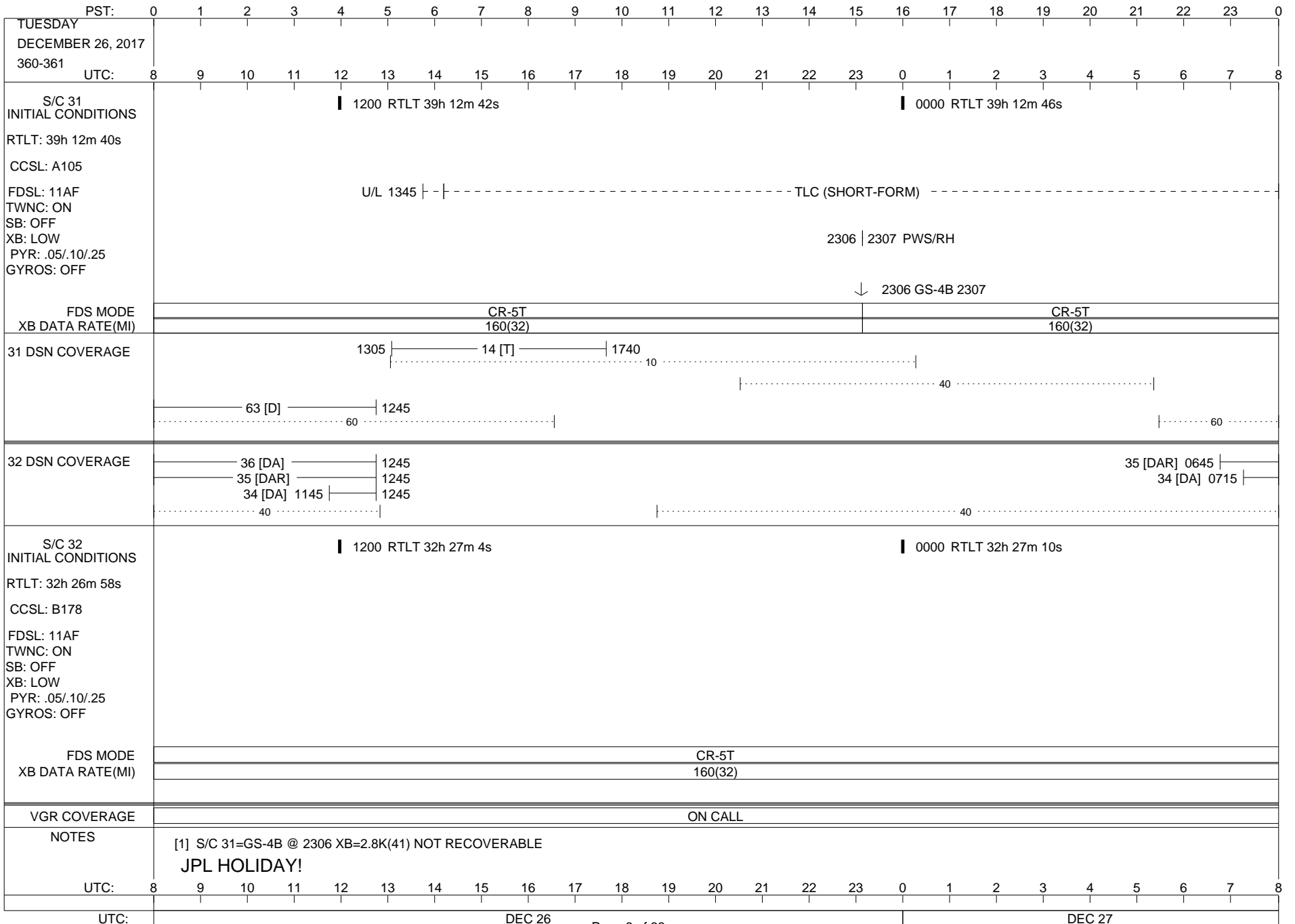
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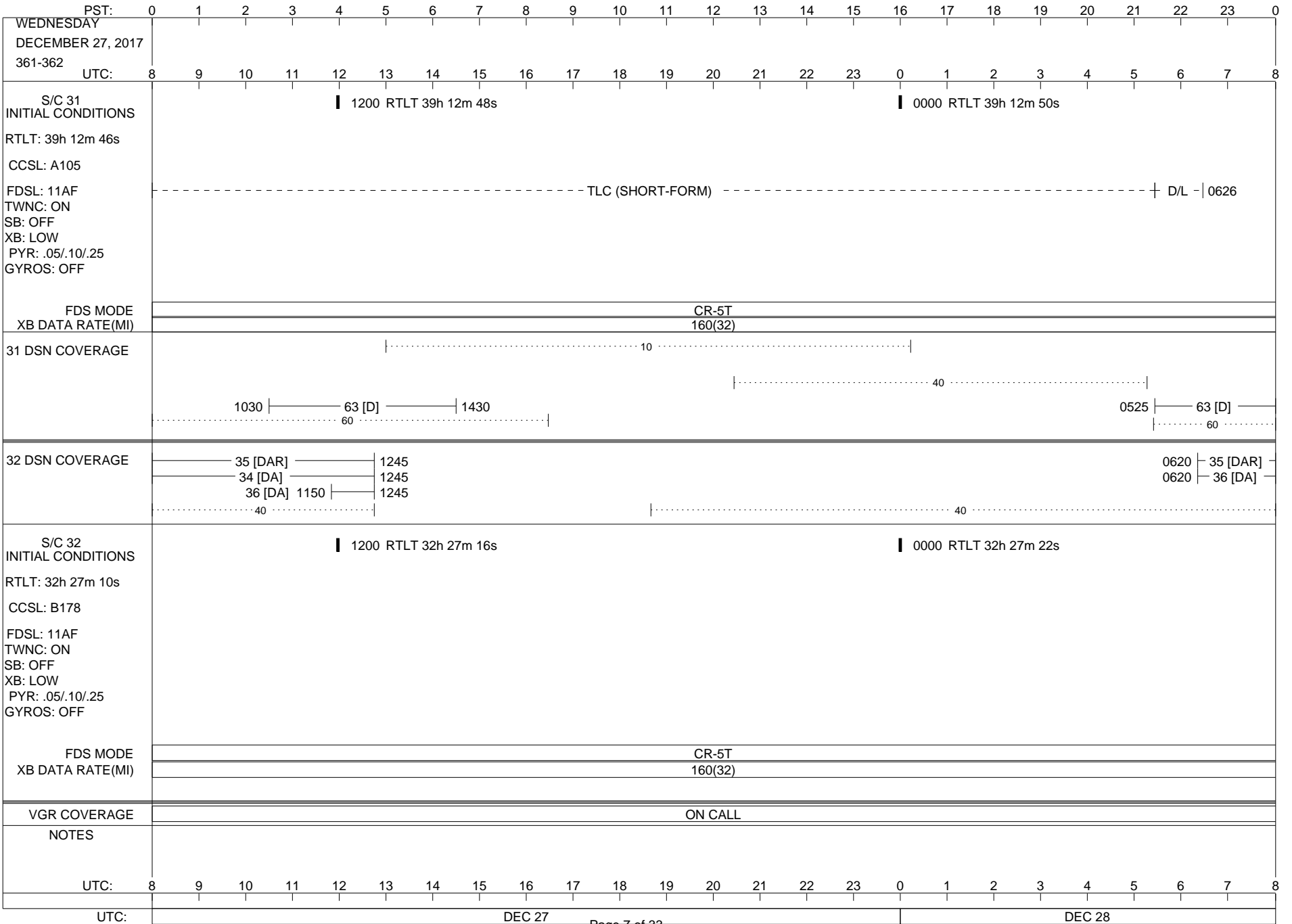
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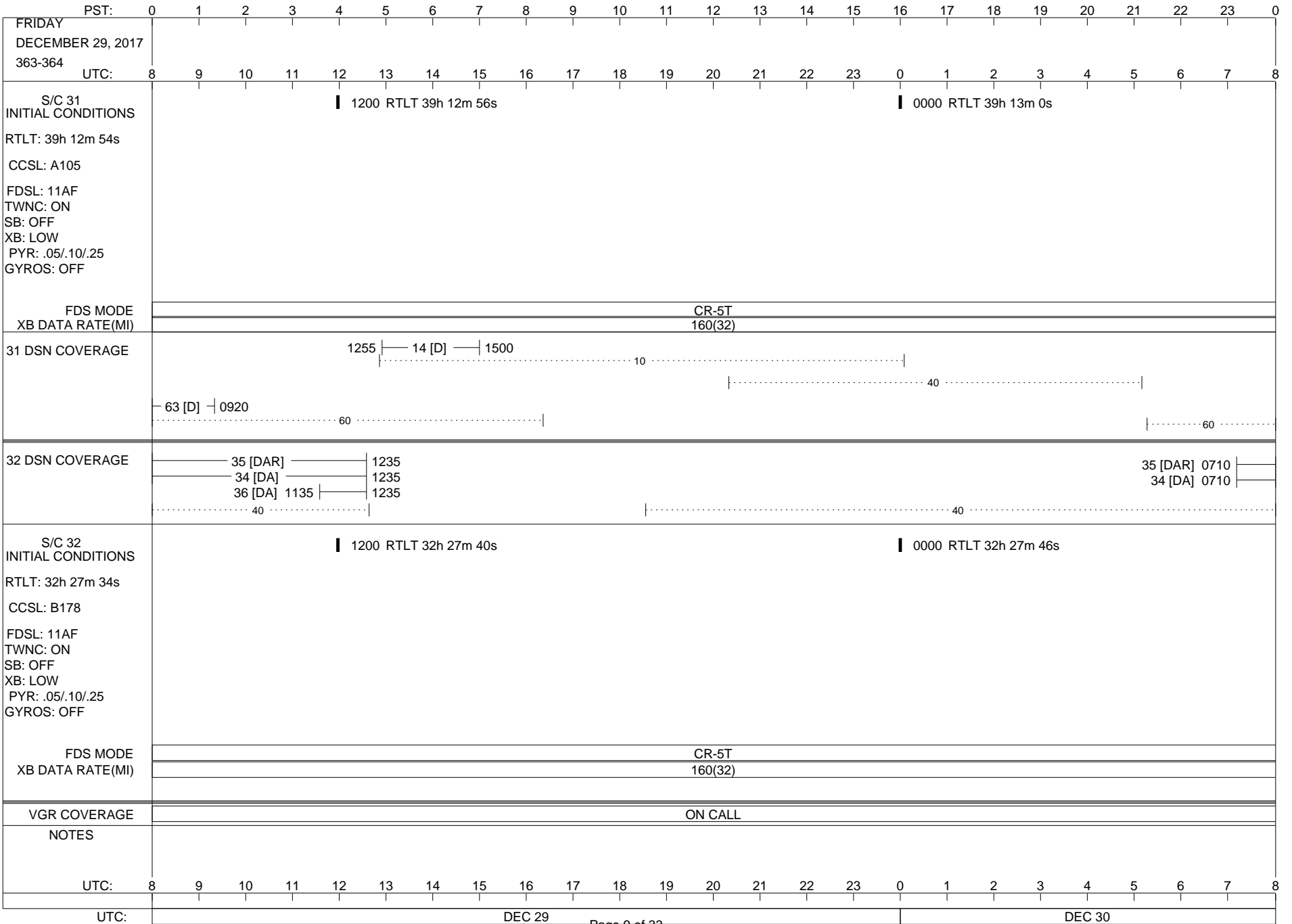
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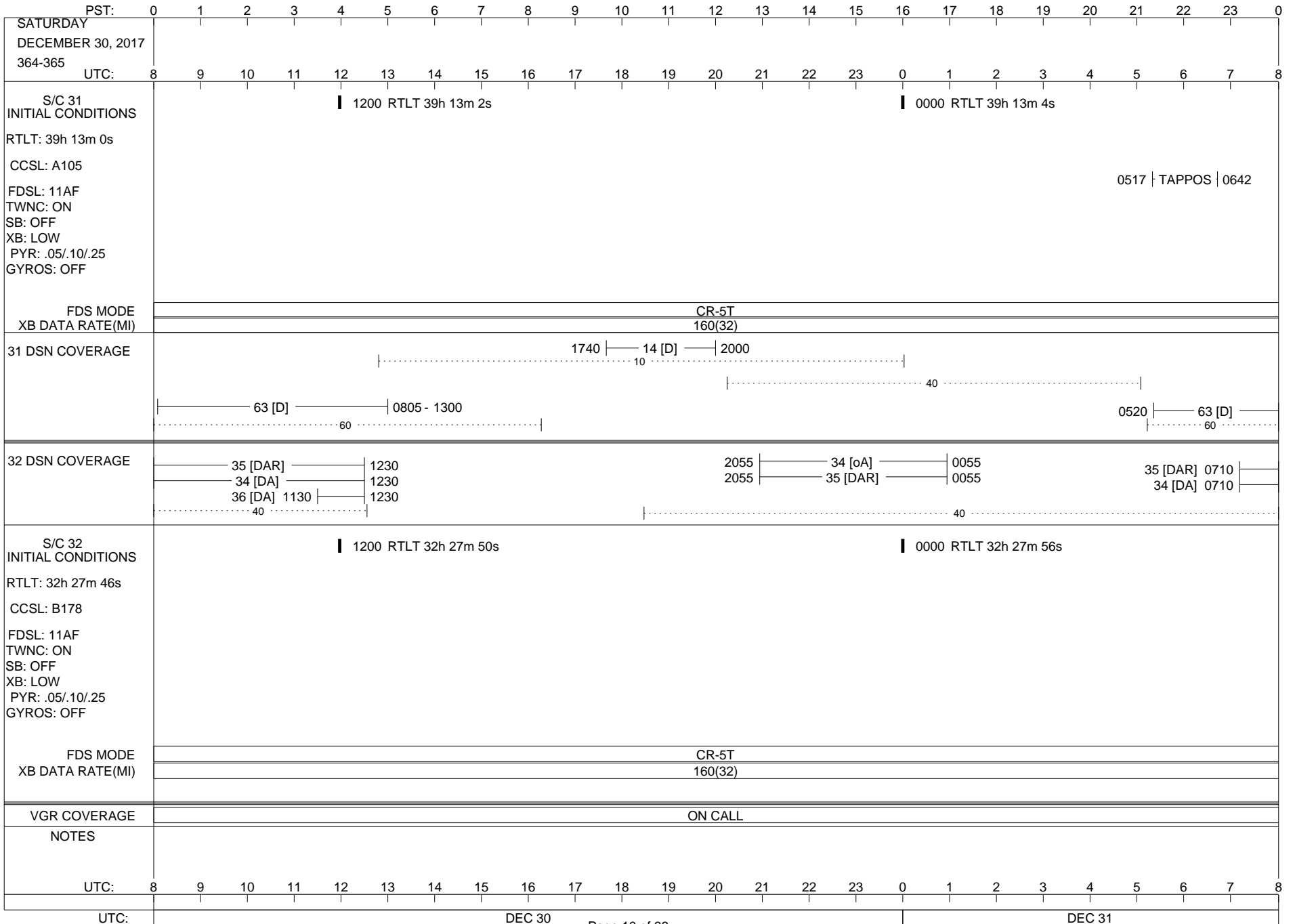


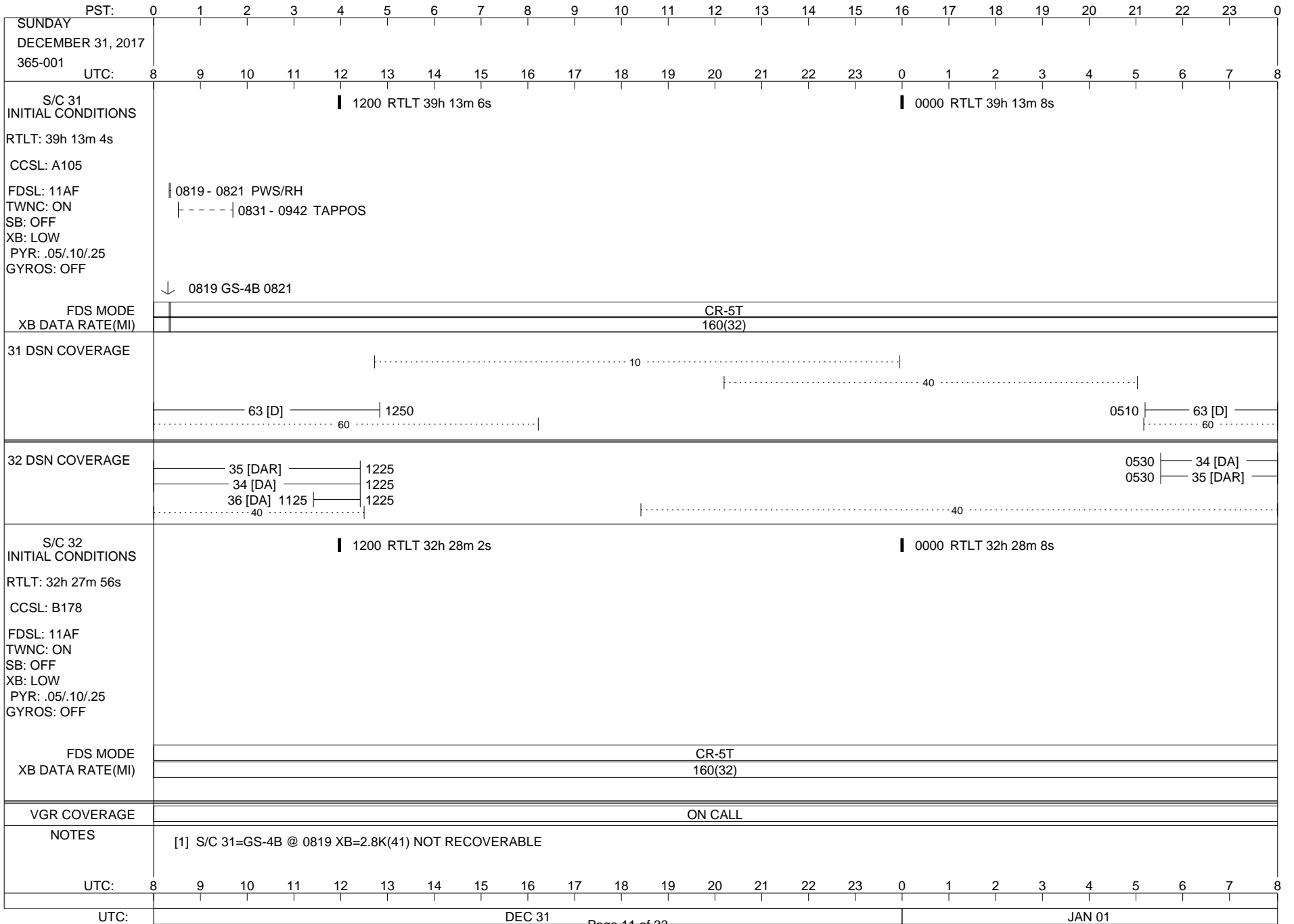
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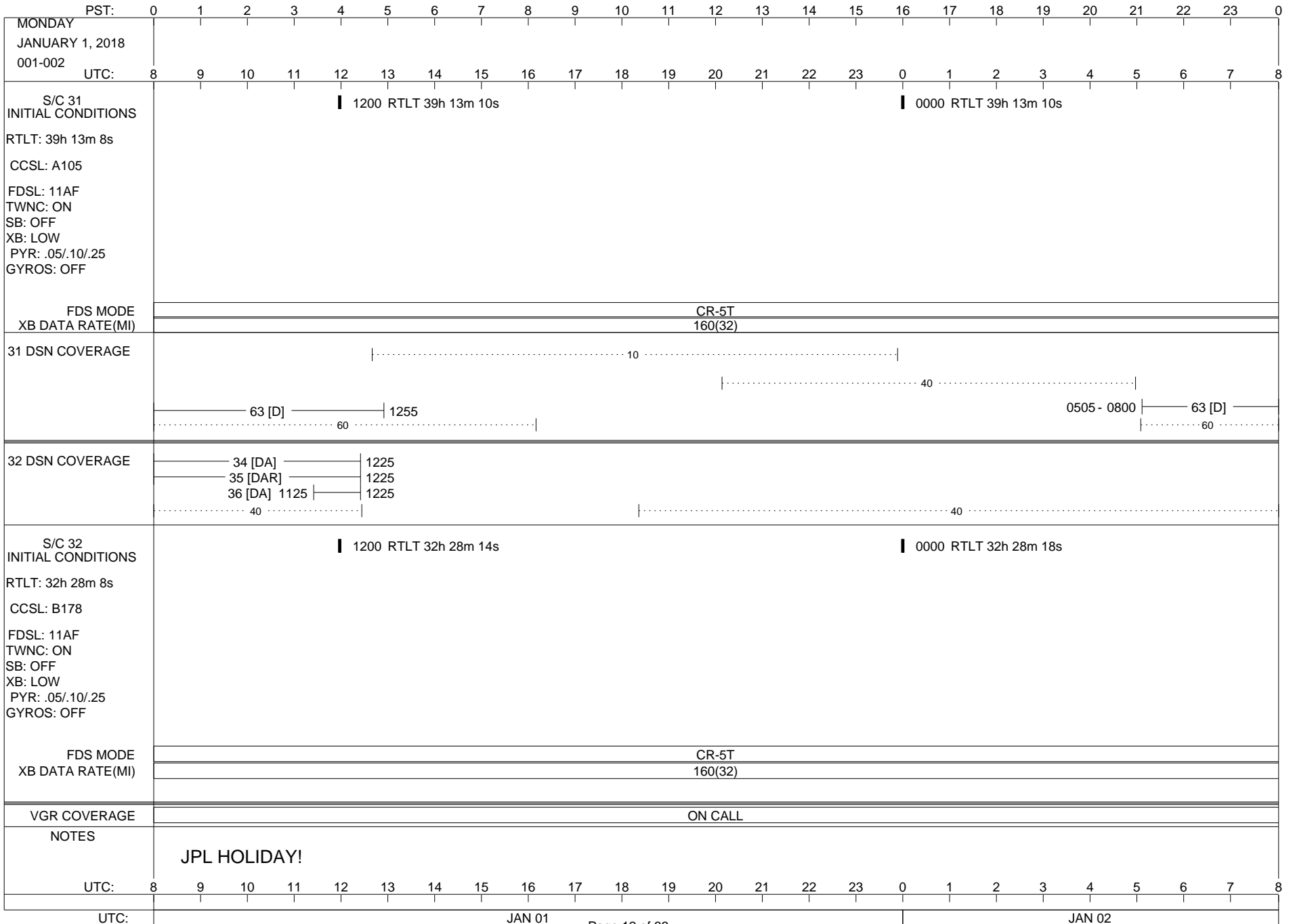
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THURSDAY DECEMBER 28, 2017 362-363																										
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S/C 31 INITIAL CONDITIONS RTLT: 39h 12m 50s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF					1200 RTLT 39h 12m 52s												0000 RTLT 39h 12m 54s									
FDS MODE	CR-5T											CR-5T														
XB DATA RATE(MI)	160(32)											160(32)														
31 DSN COVERAGE	|.....10.....|											|.....40.....|														
	|0845 63 [D].....60.....|											|.....0520.....63 [D].....60.....|														
32 DSN COVERAGE	|.....35 [DAR].....1240.....|											|.....35 [DAR] 0745.....|														
	|.....36 [DA].....1240.....|											|.....34 [DA] 0745.....|														
	|.....34 [DA] 1140.....1240.....|											|.....40.....40.....|														
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 22s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF					1200 RTLT 32h 27m 28s												0000 RTLT 32h 27m 34s									
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 @ 0519 XB=2.8K(41) NOT RECOVERABLE																									
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ISSUE DATE: 12/20/17 11:29

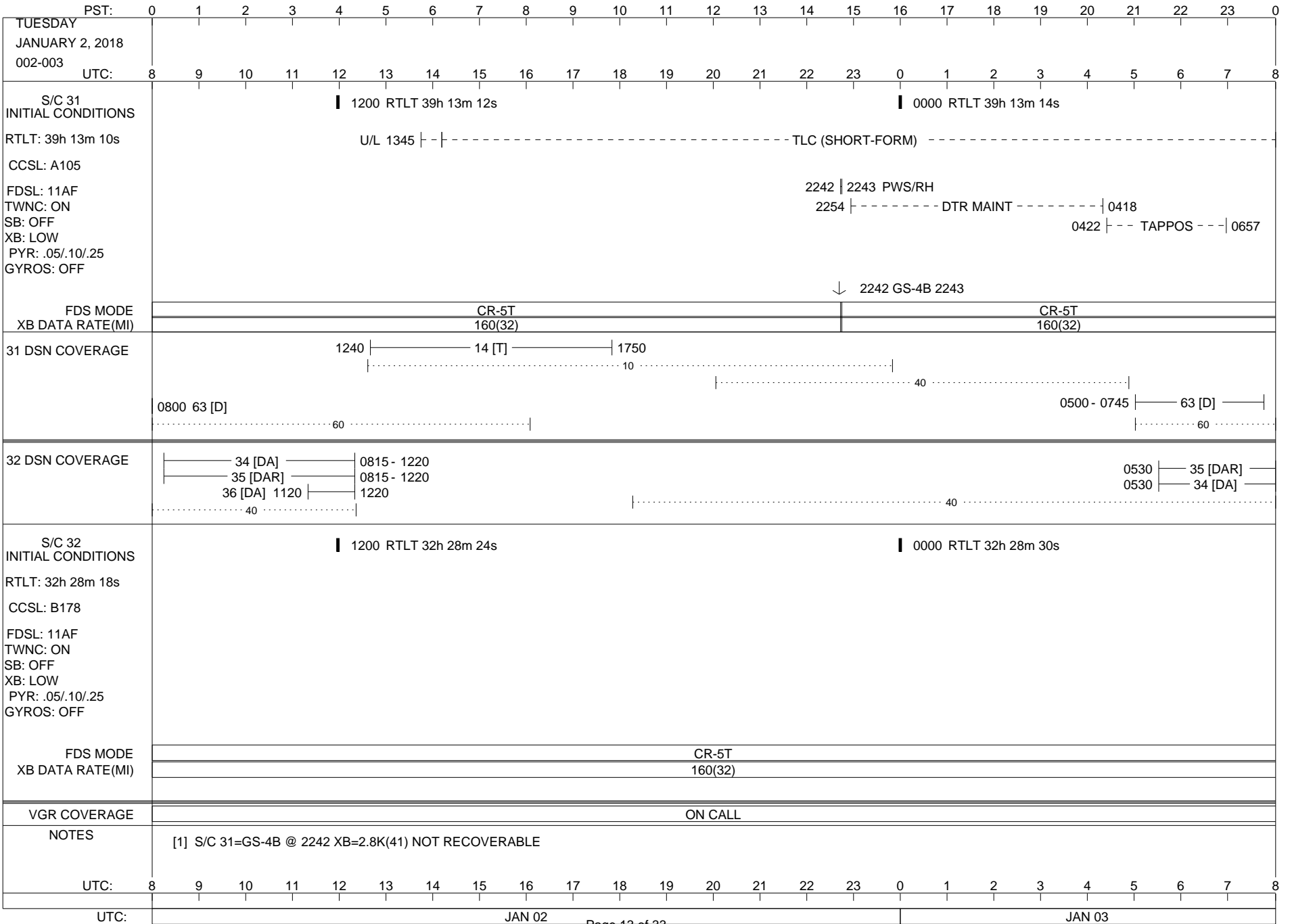




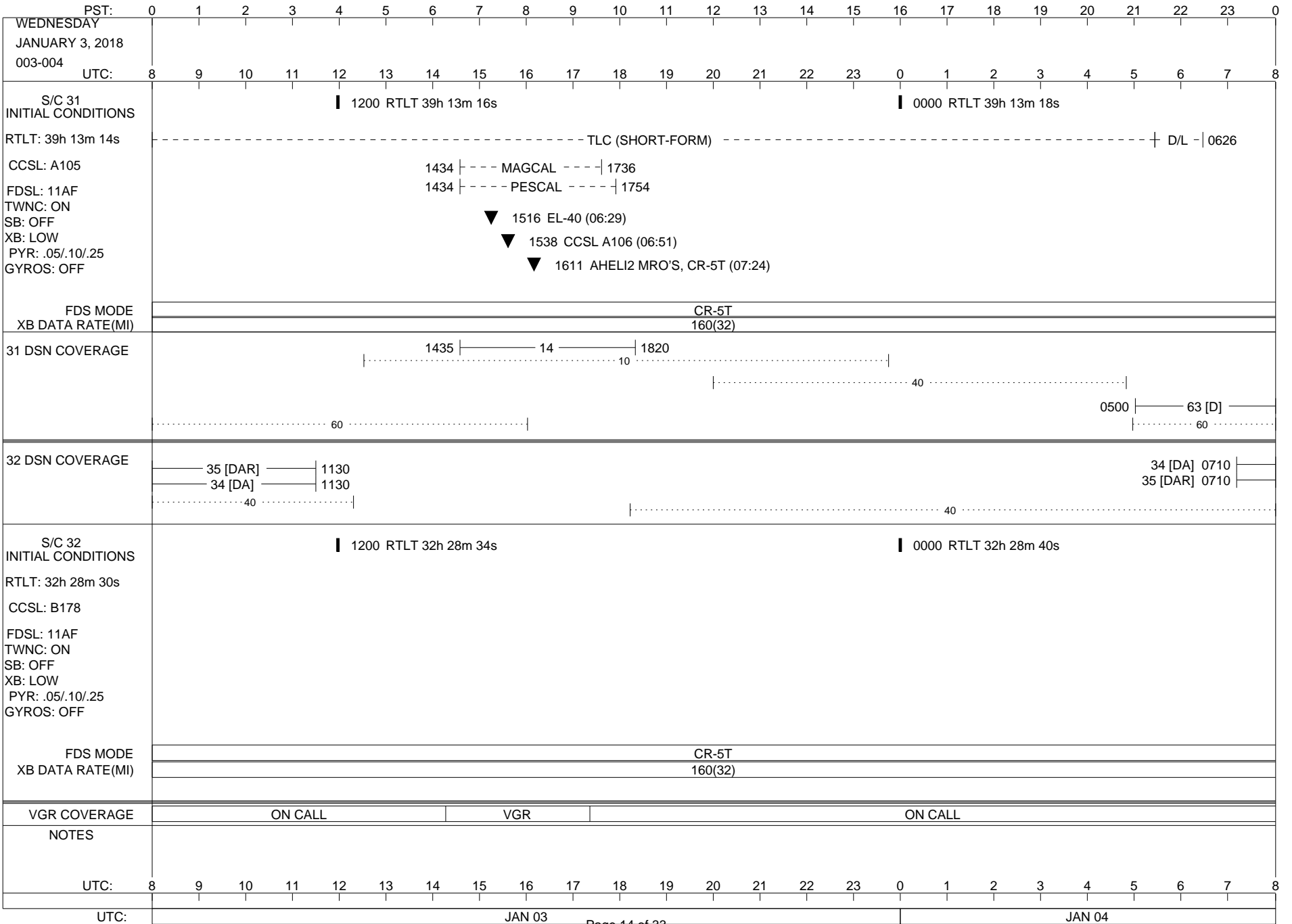




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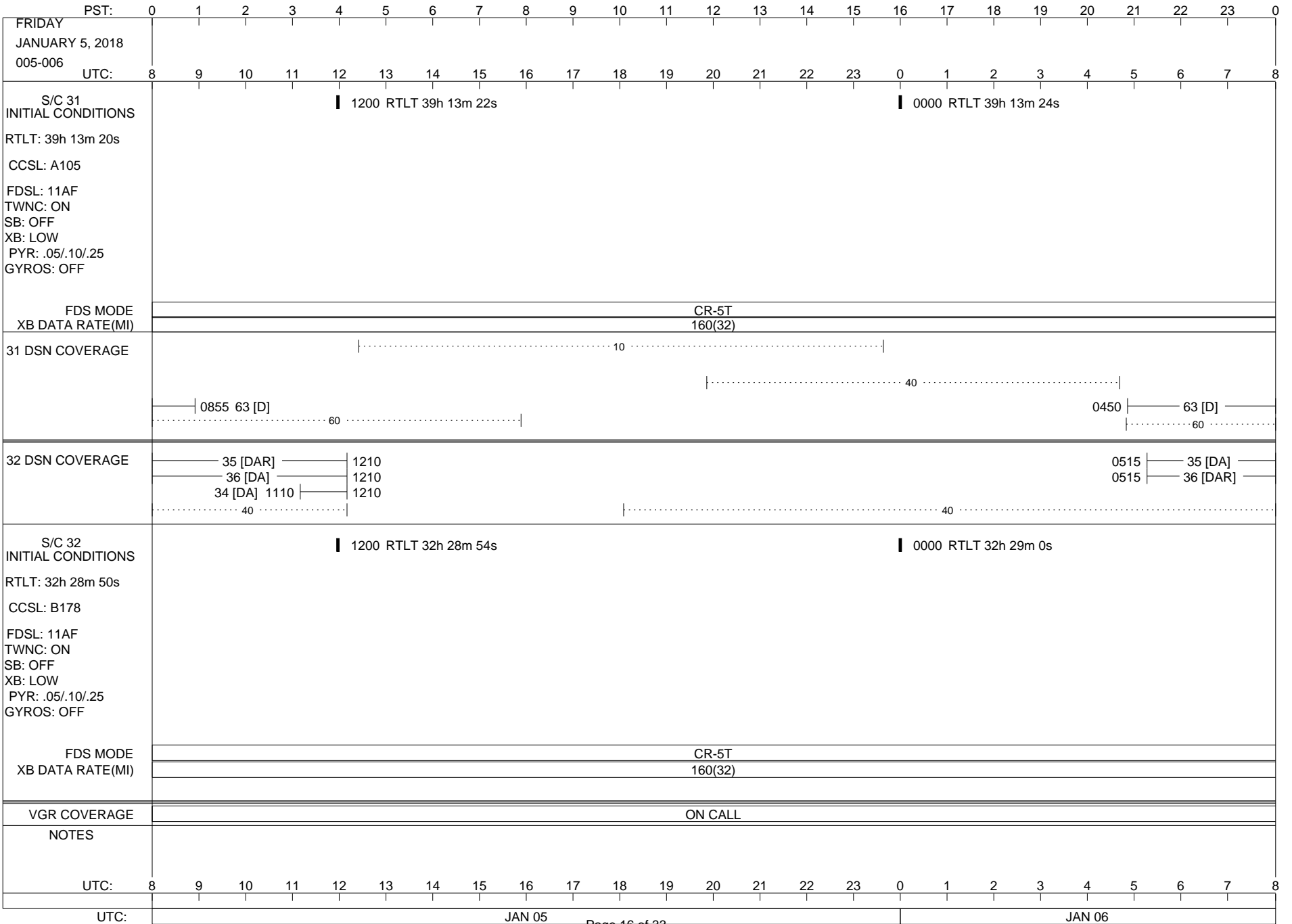
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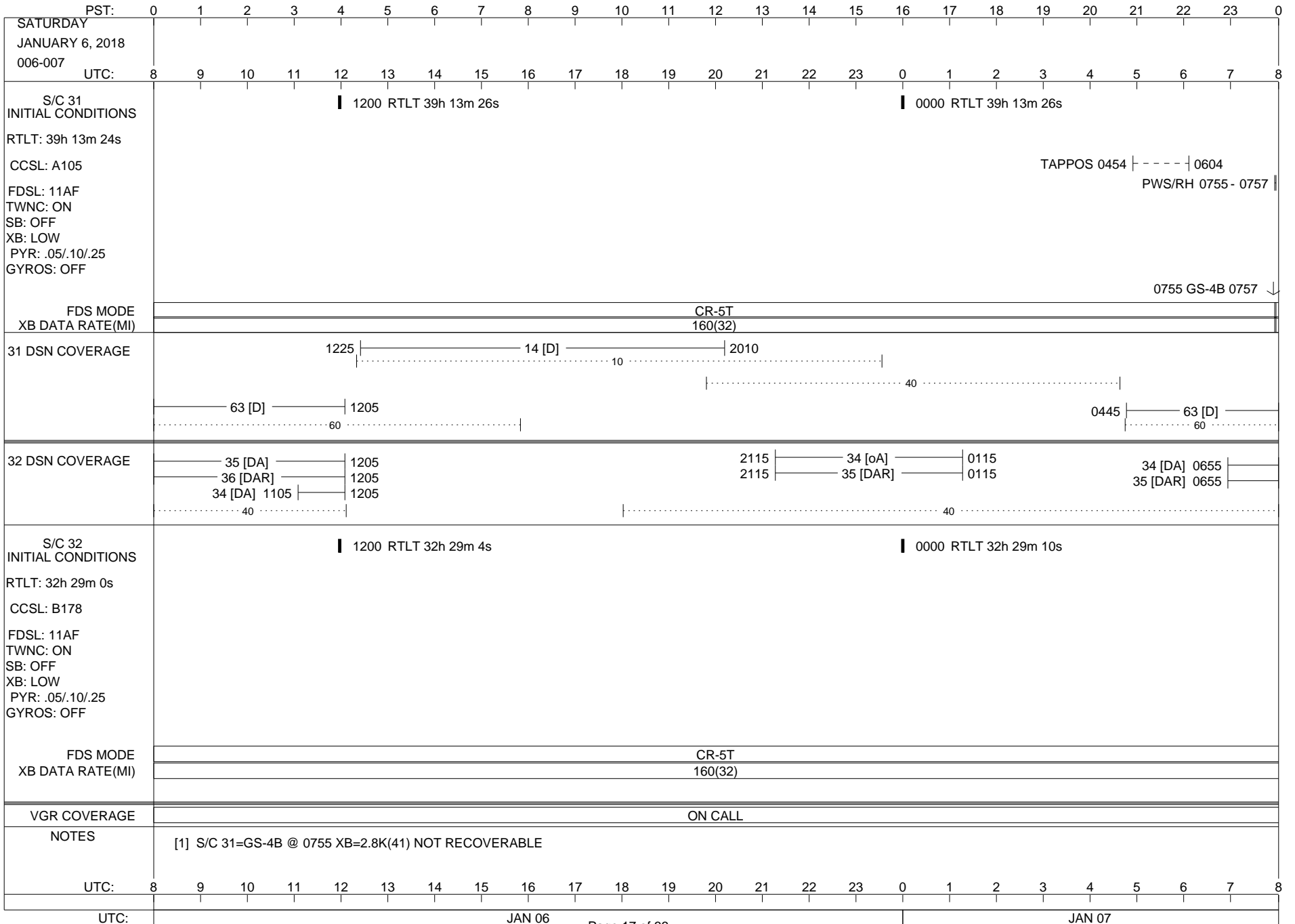
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THURSDAY JANUARY 4, 2018 004-005																									
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S/C 31 INITIAL CONDITIONS RTLT: 39h 13m 18s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 13m 20s												0000 RTLT 39h 13m 20s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	<p>63 [D] | 0915</p> <p>60</p> <p>40</p> <p>0455 | 63 [D]</p> <p>60</p>																								
32 DSN COVERAGE	<p>34 [DA] | 1135</p> <p>35 [DAR] | 1135</p> <p>36 [DA] 1035 | 1135</p> <p>40</p> <p>40</p> <p>35 [DAR] 0650 |</p> <p>0650 | 36 [DA]</p>																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 28m 40s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 28m 44s												0000 RTLT 32h 28m 50s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																						VGR		
NOTES	<p>[1] S/C 31=GS-4B @ 0455 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 31=EL-40 @ 0630 XB=40(30)</p> <p>[3] S/C 31=CR-5T @ 0730 XB=160(32)</p>																								
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UTC:	JAN 04												JAN 05												

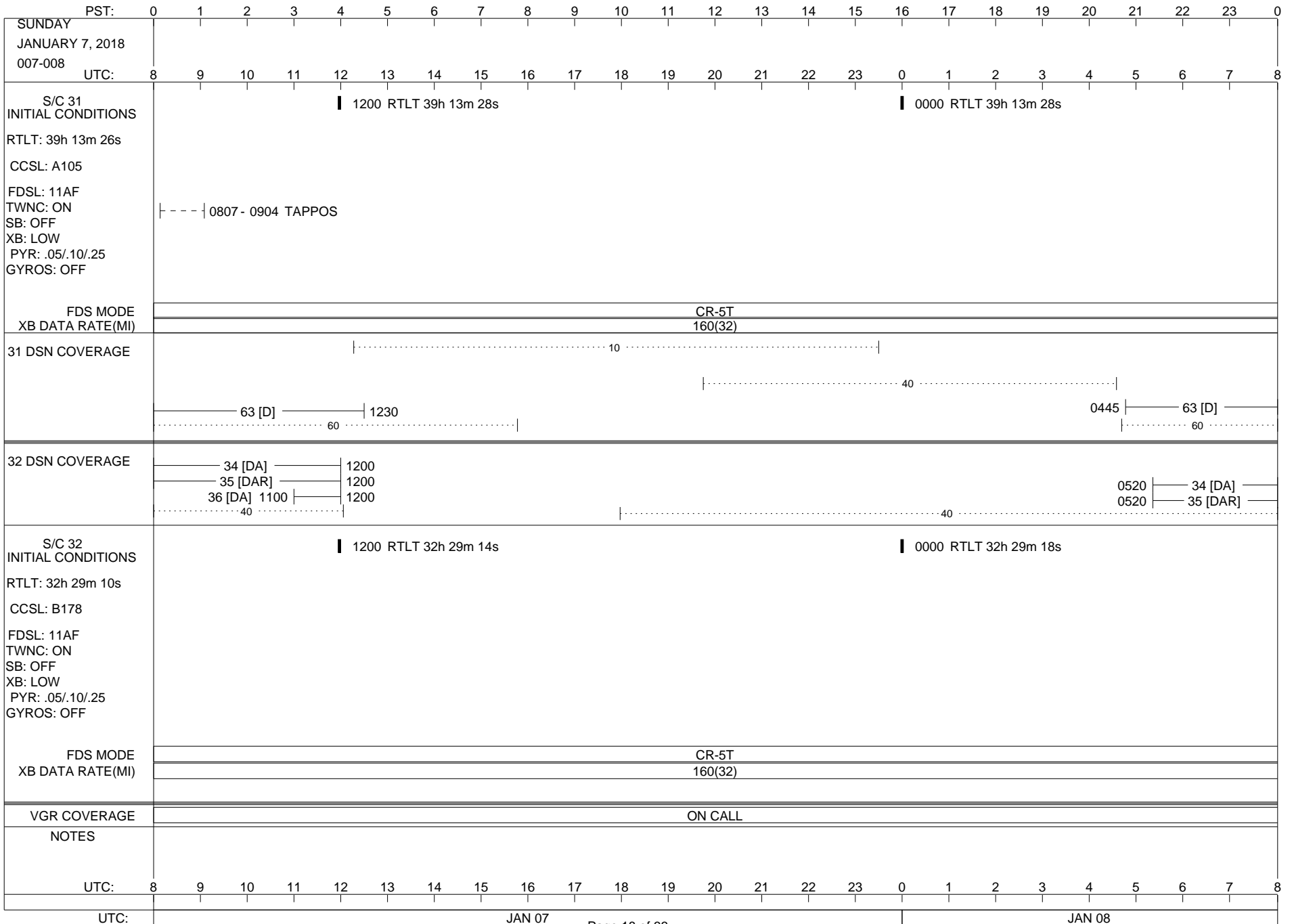
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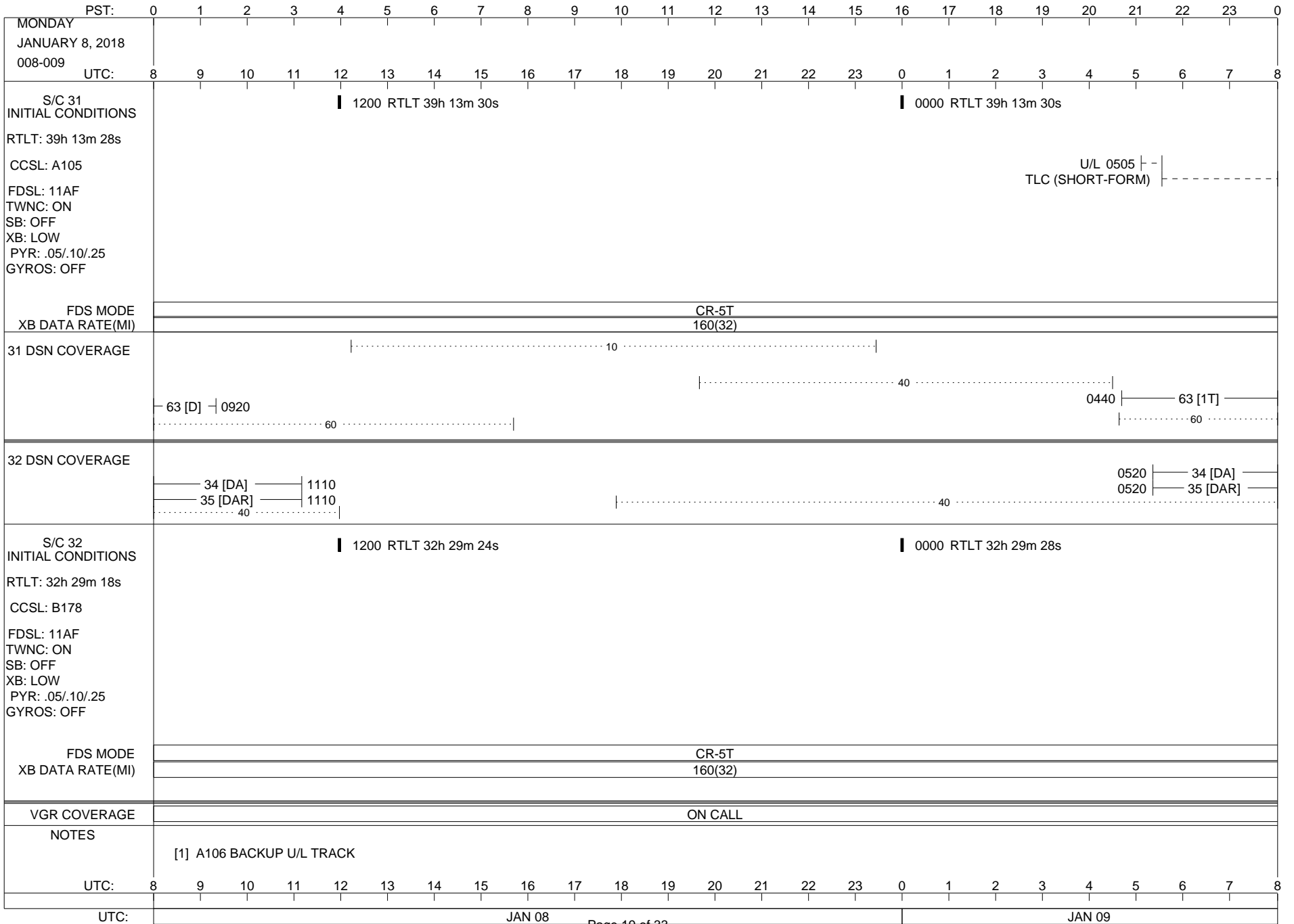
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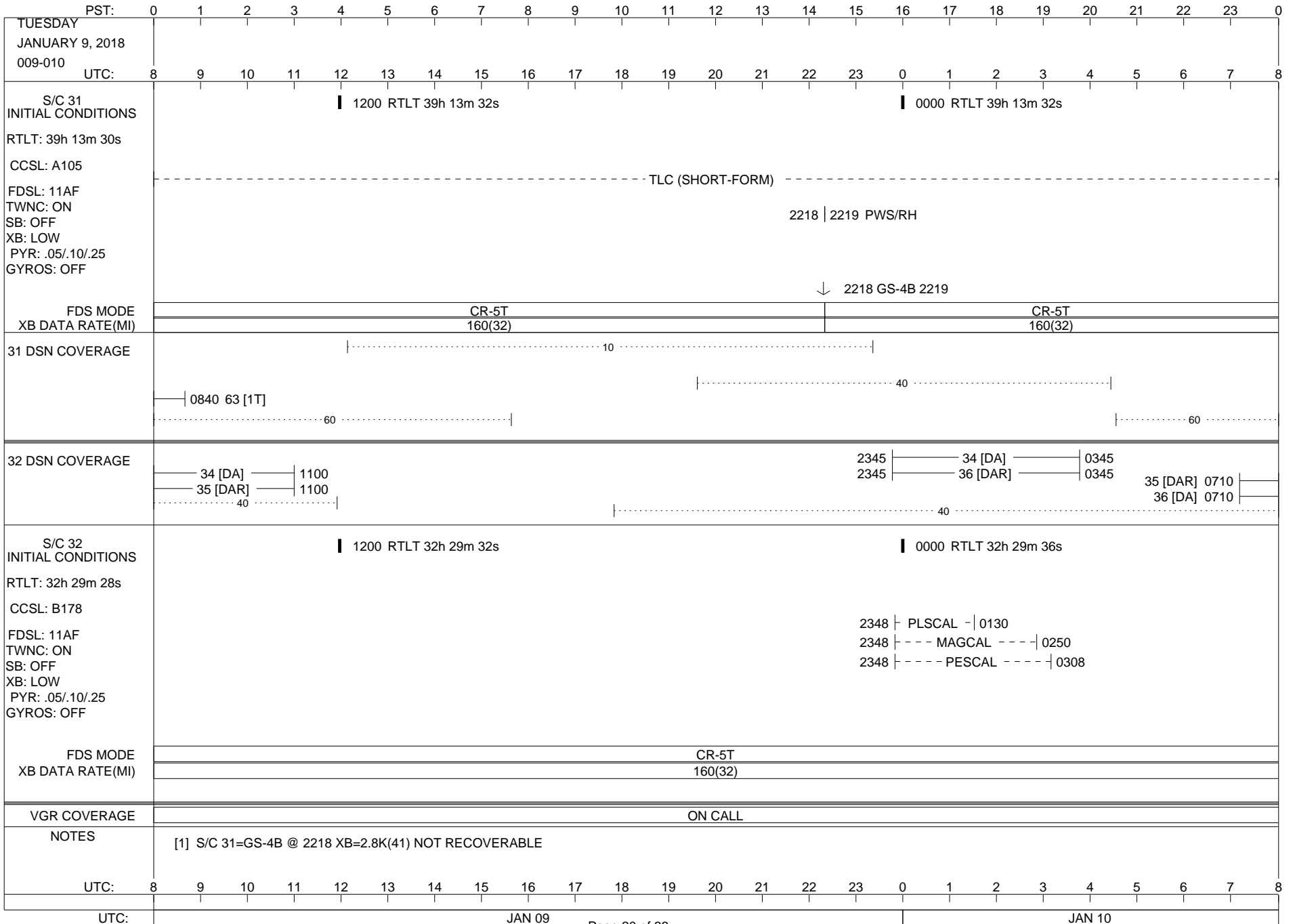
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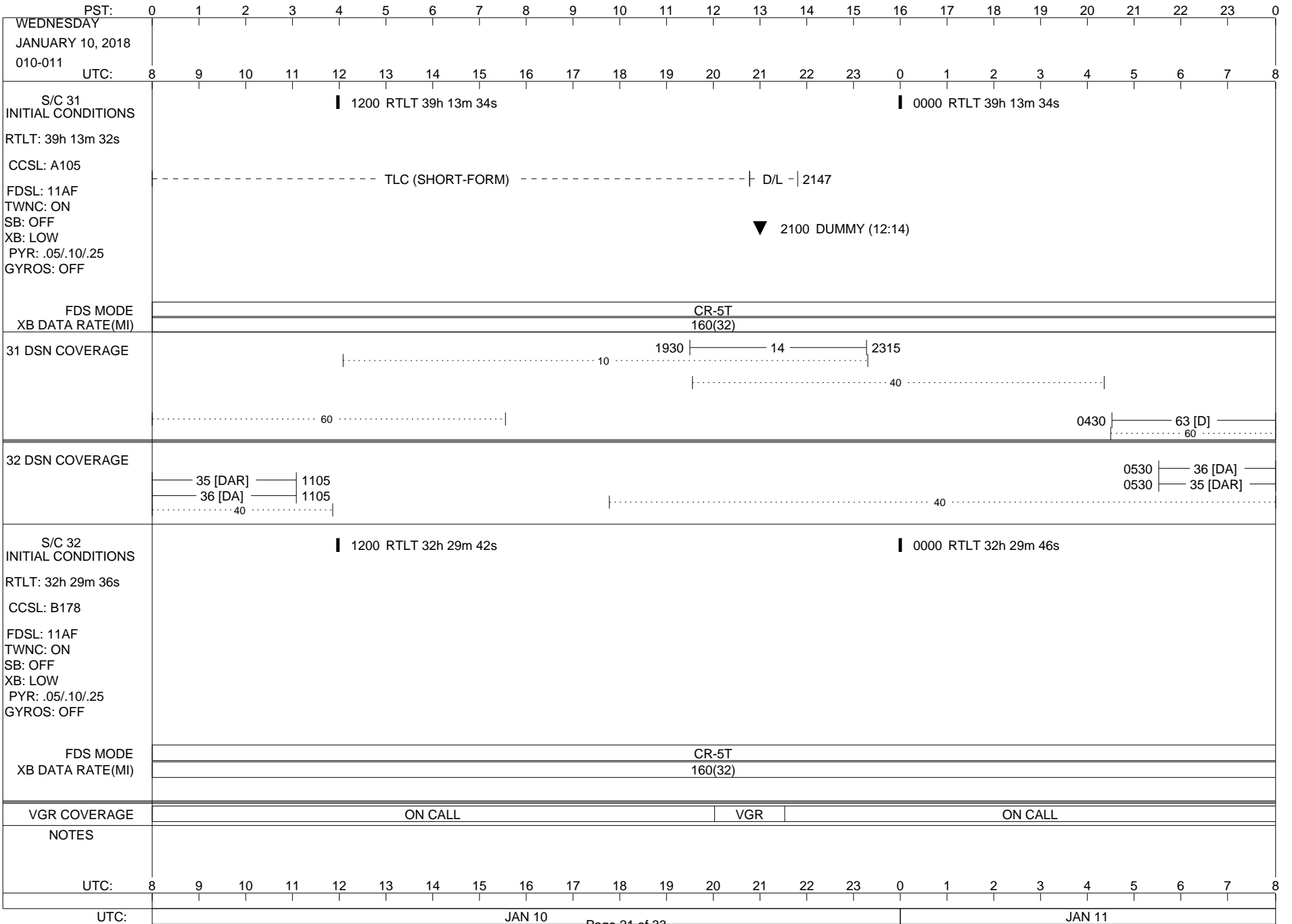
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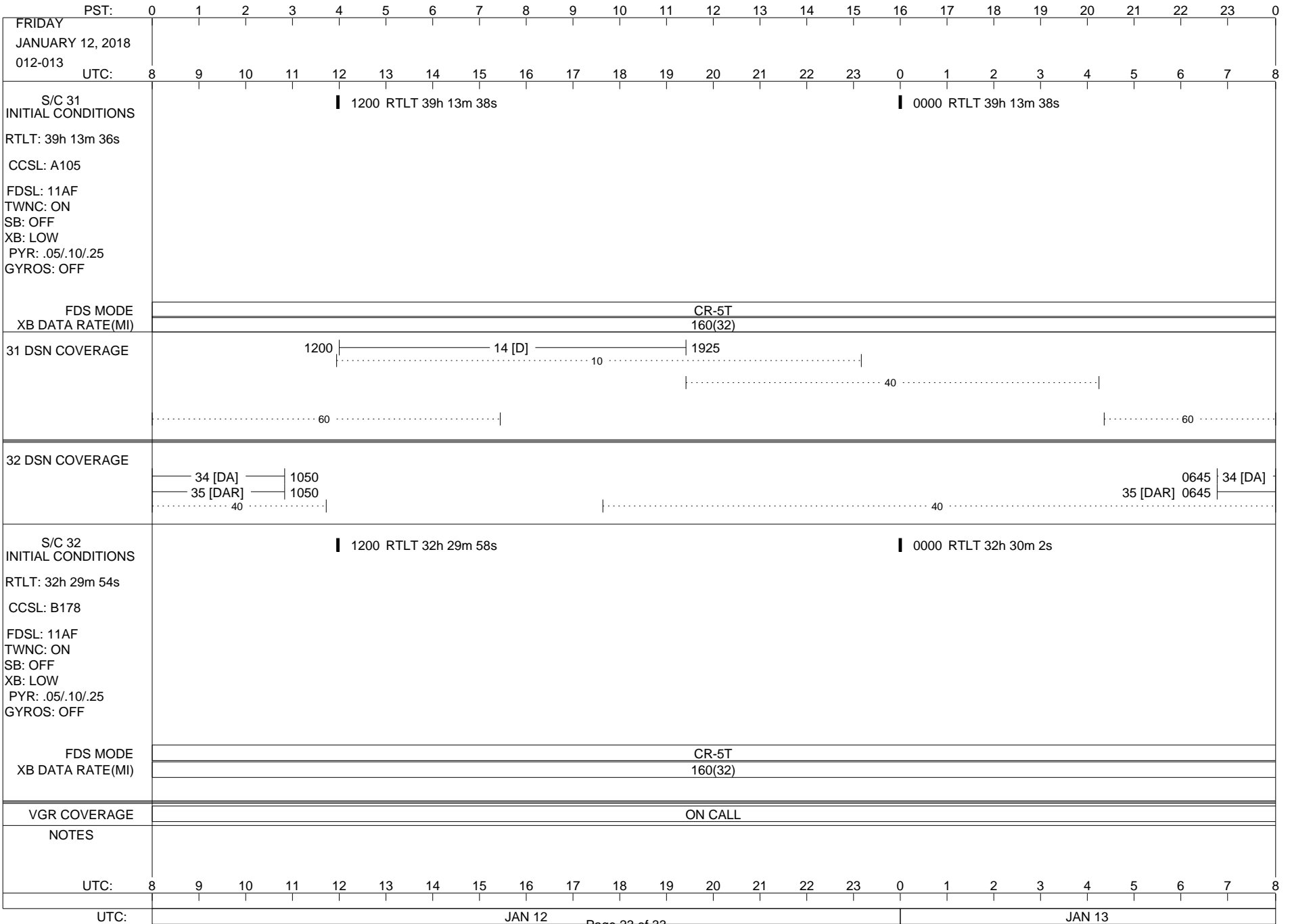
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ISSUE DATE: 12/20/17 11:29

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S/C 31 INITIAL CONDITIONS RTLTL: 39h 13m 34s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 13m 36s											0000 RTLTL 39h 13m 36s													
																		0130 | - - | 0213 TAPPOS		0431 | 0433 PWS/RH		0443 | - | 0512 TAPPOS			
																								↓ 0431 GS-4B 0433	
FDS MODE	CR-5T											CR-5T													
XB DATA RATE(MI)	160(32)											160(32)													
31 DSN COVERAGE	.....|.....10.....|.....											.....|.....40.....|.....													
	|0830 63 [D].....|.....60.....|.....											.....|.....60.....|.....													
32 DSN COVERAGE	|-----36 [DA]-----| 1100											0530 |-----34 [DA]-----|													
	|-----35 [DAR]-----| 1100											0530 |-----35 [DAR]-----|													
	.....|.....40.....|.....											.....|.....40.....|.....													
S/C 32 INITIAL CONDITIONS RTLTL: 32h 29m 46s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 29m 50s											0000 RTLTL 32h 29m 54s													
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 @ 0431 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 11													JAN 12											

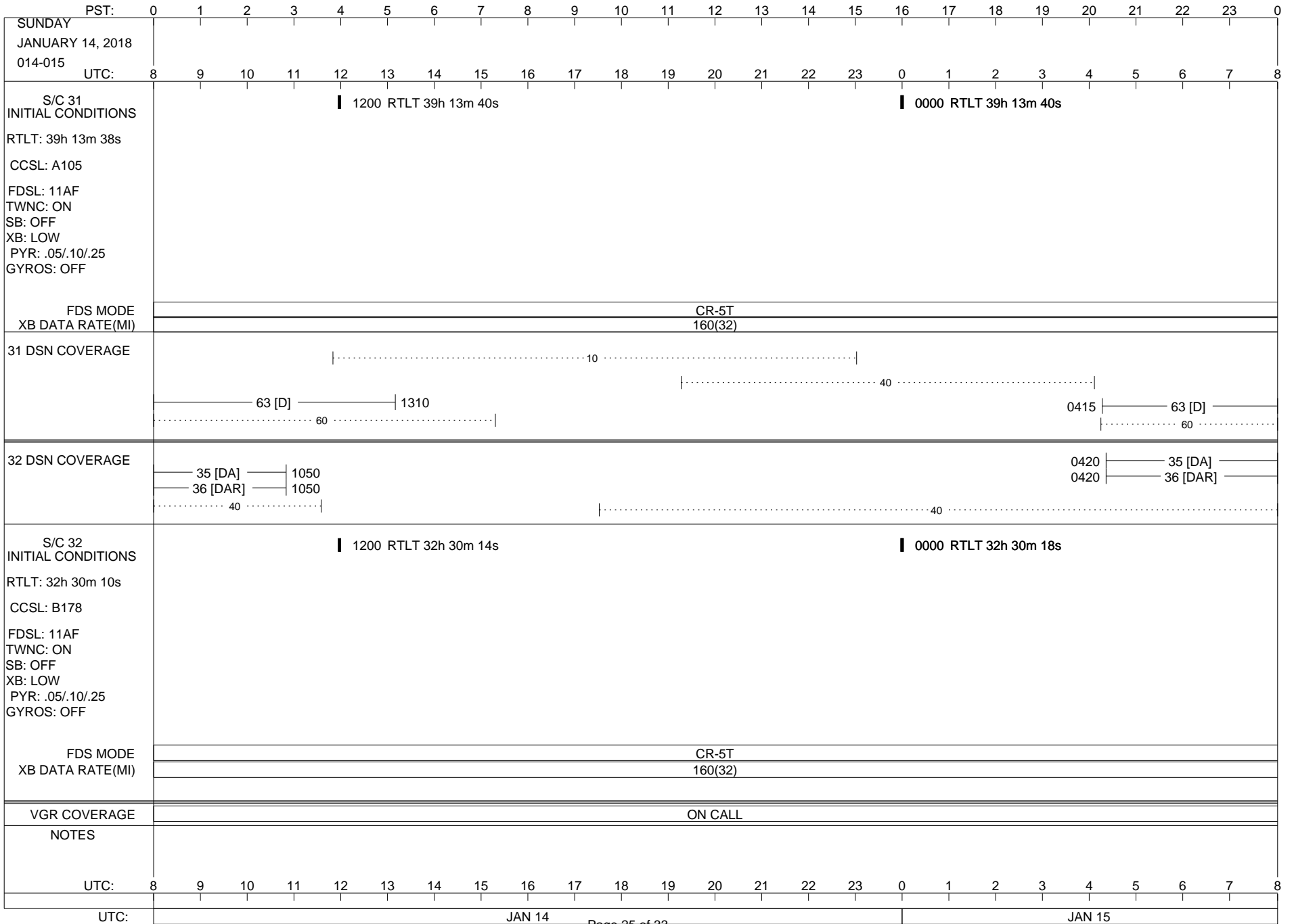
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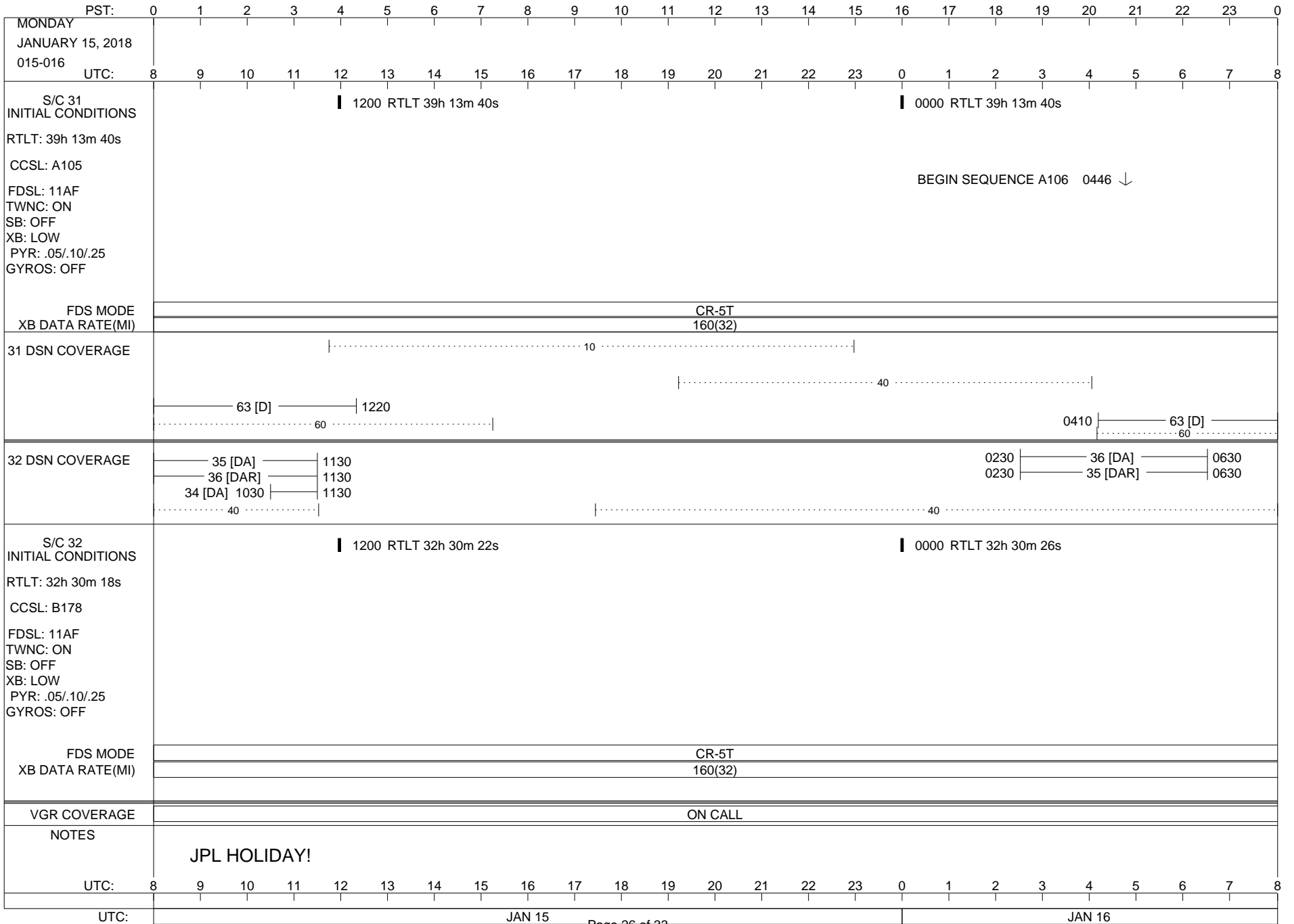
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SATURDAY JANUARY 13, 2018 013-014	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 39h 13m 38s CCSL: A105 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 13m 38s												0000 RTLTL 39h 13m 38s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1155 |----- 14 [D] -----| 1635 |----- 10 -----| |----- 40 -----| 60 |----- 63 [D] -----| |----- 60 -----|												0430 |----- 0459 TAPPOS PWS/RH 0731 - 0733 | TAPPOS 0743 - 0759 | 0731 GS-4B 0733 ↓												
32 DSN COVERAGE	34 [DA] |----- 1050 35 [DAR] |----- 1050 |----- 40 -----|												0510 |----- 35 [DA] ----- 0510 |----- 36 [DAR] ----- |----- 40 -----|												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 30m 2s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 30m 6s												0000 RTLTL 32h 30m 10s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 0731 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 13												JAN 14												

ISSUE DATE: 12/20/17 11:29



ISSUE DATE: 12/20/17 11:29



ISSUE DATE: 12/20/17 11:29

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
TUESDAY JANUARY 16, 2018 016-017	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: 39h 13m 40s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 39h 13m 42s												█ 0000 RTLT 39h 13m 42s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	|-----| 10 -----|												|-----| 40 -----|												
	|-----| 60 -----|												|-----| 60 -----|												
32 DSN COVERAGE	1000 | 34 [DA] | 1130 1000 | 35 [DAR] | 1130 1000 | 36 [DA] | 1130 |-----| 40 -----|												0515 | 35 [DAR] | 0515 | 36 [DA] | |-----| 40 -----|												
S/C 32 INITIAL CONDITIONS RTLT: 32h 30m 26s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 32h 30m 30s												█ 0000 RTLT 32h 30m 32s												
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 @ 2155 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 16												JAN 17												

ISSUE DATE: 12/20/17 11:29

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 18, 2018																													
018-019																													
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S/C 31 INITIAL CONDITIONS		1200 RTLT 39h 13m 42s														0000 RTLT 39h 13m 42s													
RTLT: 39h 13m 42s																0106 0107 TAPPOS													
CCSL: A106		----- TLC (LONG-FORM) -----														PWS/RH 0408 | 0409 TAPPOS 0419 | 0432 D/L | 0514													
FDSL: 11AF																TCM HEATERS ON 0457 ↓													
TWNC: ON																TCM THRUSTER CTRL 0559 ↓													
SB: OFF																BAY 1 HTR OFF 0744 ↓													
XB: LOW																GYROS BC ON 0744 ↓													
PYR: .05/.10/.25																GYRO INIT 0745 ↓													
GYROS: OFF																GYRO FAULT TEST 0754 ↓													
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		1200 RTLT 32h 30m 44s														0000 RTLT 32h 30m 46s													
RTLT: 32h 30m 40s																													
CCSL: B178																													
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													
NOTES		[1] S/C 31=GS-4B @ 0408 XB=2.8K(41) NOT RECOVERABLE																											
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UTC:		JAN 18														JAN 19													

ISSUE DATE: 12/20/17 11:29

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 19, 2018 019-020					
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: 39h 13m 42s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	<p>1200 RTLT 39h 13m 42s</p> <p>0828 ALL DB=.IS 0844 AA1 0845 0918 ASCAL 0919 RAI 0922 GYROS OFF 0922 CRU 0931 BAY 1 HTR ON 0931 YAW=.10 0931 ROLL=.25 0935</p> <p>0000 RTLT 39h 13m 42s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td>EL-40</td> <td>CR-5T</td> </tr> <tr> <td>40(30)</td> <td>160(32)</td> </tr> </table>	EL-40	CR-5T	40(30)	160(32)
EL-40	CR-5T				
40(30)	160(32)				
31 DSN COVERAGE	<p>..... 10 </p> <p>63 [DAR] ----- 1320</p> <p> 0830 - 0930 55 [DA] </p> <p>..... 60 </p> <p>0355 ----- 63 [D] -----</p> <p>..... 60 </p>				
32 DSN COVERAGE	<p>34 [DAR] ----- 1115</p> <p>35 [DA] ----- 1115</p> <p>..... 40 </p> <p>0000 ----- 34 [oA] ----- 0535</p> <p>0000 ----- 35 [DAR] ----- 0535</p> <p>..... 40 </p>				
S/C 32 INITIAL CONDITIONS RTLT: 32h 30m 46s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLT 32h 30m 50s</p> <p>0000 RTLT 32h 30m 52s</p>				
FDS MODE XB DATA RATE(MI)	<table border="1"> <tr> <td></td> <td>CR-5T</td> </tr> <tr> <td></td> <td>160(32)</td> </tr> </table>		CR-5T		160(32)
	CR-5T				
	160(32)				
VGR COVERAGE	VGR ----- ON CALL				
NOTES	<p>[1] S/C 31=D/L SNR VARIATIONS EXPECTED DURING ASCAL (0817-0922)</p> <p>[2] S/C 31=EL-40 @ 0749 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: 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	
SATURDAY JANUARY 20, 2018 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 RTLT: 39h 13m 42s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF FDS MODE XB DATA RATE(MI)	1200 RTLT 39h 13m 42s CR-5T 160(32) 0406 | 0418 TAPPOS PWS/RH 0707 | 0709 TAPPOS 0719 - 0746 | - | 0707 GS-4B 0709 ↓
31 DSN COVERAGE	1625 |-----| 14 [D] |-----| 2025 |-----| 10 |-----| 40 |-----| 60 |-----| 60 |-----| 0805 63 [D] |-----|
32 DSN COVERAGE	0515 |-----| 35 [DR] |-----| 0515 |-----| 36 [DA] |-----| |-----| 40 |-----| 40
S/C 32 INITIAL CONDITIONS RTLT: 32h 30m 52s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF FDS MODE XB DATA RATE(MI)	1200 RTLT 32h 30m 56s CR-5T 160(32)
VGR COVERAGE	ON CALL
NOTES	[1] S/C 31=GS-4B @ 0707 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 20 Page 31 of 33 JAN 21	

ISSUE DATE: 12/20/17 11:29

