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# Juno JIRAM

# **Report JM0001**

Version 1.0

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# JUNO

# JUNO/JIRAM

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#### 1 Introduction

This document describes the activities that JIRAM performed during the activity period JM0001, with particular attention to the comparison with the expected data and that achieved, keeping track of the configuration of the instrument with commanding file (sasf).

#### 2 REFERENCES

Becker, H.N., J.W. Alexander, A. Adriani, A. Mura, A. Cicchetti, R. Noschese, J.L. Jørgensen, T. Denver, J. Sushkova, A. Jørgensen, M. Benn, J.E.P. Connerney, S.J. Bolton, the Selex Galileo Juno SRU Team, J. Allison, S. Watts, V. Adumitroaie, E.A. Manor-Chapman, I.J. Daubar, C. Lee, S. Kang, W.J. McAlpine, T. Di Iorio, C. Pasqui, A. Barbis, P. Lawton, L. Spalsbury, S. Loftin, and J. Sun (2017), The Juno Radiation Monitoring (RM) Investigation, Space Sci Rev, doi: 10.1007/s11214-017-0345-9."

#### 3 ACTIVITY DESCRIPTION

JIRAM is turned on for the first time after the insertion maneuver in orbit around JUPITER. In the first part of the test have been performed the following three calibrations:

- Calibration Lamp 1
- Calibration Lamp 2
- Calibration of both Lamps

This allowed us to verify that the instrument did not suffer any functional impairment as a result of the insertion maneuver.

Subsequently a scientific observation section was performed on EUROPA, which has allowed us to also validate the scientific integrity of the instrument.

In the last part of the test we have successfully carried out observations on ALDEBARAN and the HYADES, which allowed us to collect data for the calibration of instrument. Jiram has been commanded to perform scans of the sky where ALDEBARAN is on 20 July 2016. The offset was increasing of 0.0094169 deg (about <sup>3</sup>/<sub>4</sub> of a pixel) for each image. For each image, the SCET has been used to derive the predicted angle. Because a predict C kernel was not available at the time these observations were designed, the appropriate timing and timing offsets, as well as the required pointing for the primary spin axis, were calculated using the Juno reference trajectory and JIRAM frame definition. The time difference should be constant (assuming JUNO rotation period is constant) but it was not, showing that there was a difference between the commanded angle and the predicted one.

The centroid of Aldebaran in the M band has been used to calculate the actual angle of pointing of JIRAM. Since the star is a very easy target, and the centroid is calculated by using ~10 pixels, we can assume that this analysis has an intrinsic error of less than 1 pixel.

The following images show that there is  $\sim 0.009$  deg error in the prediction and then an additional  $\sim 0.003$  error in the performing of the acquisition. This result has been confirmed by data from Galilean moons. On average, JIRAM pointing precision can't be better than 1 pixel.



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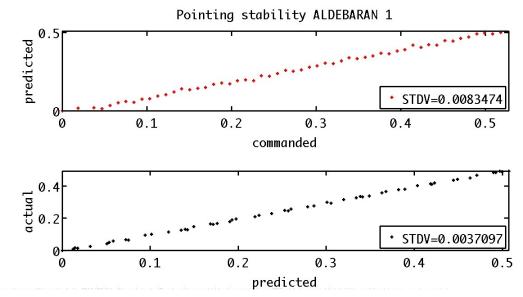


Figure 1: Pointing stability ALDEBARAH (JM\_015-JM\_016)

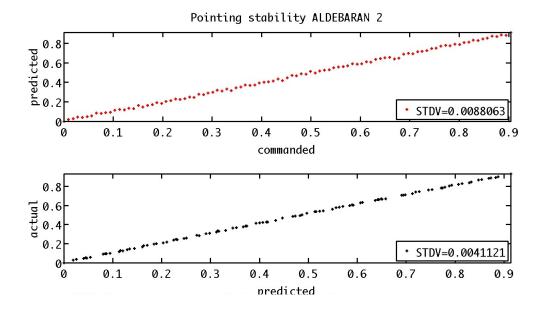


Figure 2: Pointing stability ALDEBARAH (JM\_017-JM\_021)



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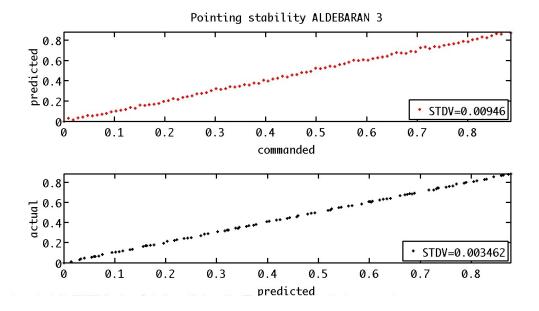


Figure 3: Pointing stability ALDEBARAH (JM\_022-JM\_023)

# 4 RADIATIONS ACQUISITION

Seven radiation sequences (21 images, each collected with a 1 second exposure time and subsequent on-bord read noise subtraction) were collected for the objective of updating the "good pixel location map" which is used during processing of JIRAM radiation data. These images were collected in a low radiation condition on July 20, 2016, following Juno's first pass through Jupiter's radiation belts and the Jupiter orbit insertion. The images were collected while turning the instrument de-spinning mirror to the calibration lamp with the lamp OFF to create a dark condition. The analysis of the images is discussed in *Becker et al.* [2017].

Four additional radiation sequences were collected to study the linearity of the IMG detector at low signal levels. The on-board read noise subtraction and dark conditions were as described above, but the IMG exposure times were reduced. Three images were collected at each of the following exposure times: 50, 100, 200, and 500 ms. A study of the change in pixel signal values at the different exposure times showed a linear behavior for low signal levels (i.e. ranging from ~10DN-100DN).

Following the list of Radiation observations:



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JIR IMG EDR 2016202T154629 V01.IMG JIR IMG EDR 2016202T154801 V01.IMG JIR IMG EDR 2016202T154902 V01.IMG JIR\_IMG\_EDR\_2016202T155105\_V01.IMG JIR\_IMG\_EDR\_2016202T155206\_V01.IMG JIR\_IMG\_EDR\_2016202T155338\_V01.IMG JIR\_IMG\_EDR\_2016202T155541\_V01.IMG JIR\_IMG\_EDR\_2016202T155642\_V01.IMG JIR\_IMG\_EDR\_2016202T155815\_V01.IMG JIR\_IMG\_EDR\_2016202T155947\_V01.IMG JIR IMG EDR 2016202T160119 V01.IMG JIR IMG EDR 2016202T160251 V01.IMG JIR\_IMG\_EDR\_2016202T160423\_V01.IMG JIR\_IMG\_EDR\_2016202T160555\_V01.IMG JIR\_IMG\_EDR\_2016202T160657\_V01.IMG JIR\_IMG\_EDR\_2016202T160859\_V01.IMG JIR\_IMG\_EDR\_2016202T161031\_V01.IMG JIR IMG EDR 2016202T161133 V01.IMG JIR IMG EDR 2016202T161336 V01.IMG JIR\_IMG\_EDR\_2016202T161437\_V01.IMG JIR\_IMG\_EDR\_2016202T161609\_V01.IMG JIR\_IMG\_EDR\_2016202T161812\_V01.IMG JIR\_IMG\_EDR\_2016202T161913\_V01.IMG JIR IMG EDR 2016202T162045 V01.IMG JIR IMG EDR 2016202T162217 V01.IMG JIR IMG EDR 2016202T162349 V01.IMG JIR\_IMG\_EDR\_2016202T162521\_V01.IMG JIR IMG EDR 2016202T162653 V01.IMG JIR\_IMG\_EDR\_2016202T162825\_V01.IMG JIR\_IMG\_EDR\_2016202T162927\_V01.IMG JIR\_IMG\_EDR\_2016202T163129\_V01.IMG JIR IMG EDR 2016202T163302 V01.IMG



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JIR IMG EDR 2016202T163403 V01.IMG

Table 1: Radiation data

# 5 SCIENTIFIC GOALS

Below is a table that describes for each science block in the commanding file the relative operative mode and the scientific objectives. The files relating to the varius science blocks are shown in the file "JIR\_STATUS\_EDR\_2016192T080310\_V01.CSV" in the INDEX directory.

JRM (sasf)	Operative Mode	Goals
JRM_004	CAL_I1_S1	Calibration Lamp 1
JRM_005	CAL_I1_S1	Calibration Lamp 2
JRM_006	CAL_I1_S1	Calibration Both Lamps
JRM_007	SCI_I1_S1	EUROPA
JRM_008	CAL_I1_S1	Calibration
JRM_014	CAL_I1_S1	Calibration
JRM_015	SCI_I1_S1	ALDEBARAN
JRM_016	SCI_I1_S1	ALDEBARAN
JRM_017	SCI_I1_S1	ALDEBARAN
JRM_021	SCI_I1_S1	ALDEBARAN
JRM_022	SCI_I1_S1	ALDEBARAN
JRM_023	SCI_I1_S1	ALDEBARAN



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From JRM_024 To JRM_034	SCI_I1_S0	RADIATION
JRM_035	CAL_I1_S1	Calibration

Table 2: Scientific Goals

## 6 DATA COLLECTION OVERWIER

Below is a table that give an overwier of the data collected during the activity period JM0001. The table describes, for each science block in the commanding file, the programmed operative modes, with the real collected data.

JRM (sasf)	Operative Mode	Observations	Packets Retrived	Packets Exepected	Missing Observations SPE	Missing Observations IMG
JRM_004	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_005	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_006	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_007	SCI_I1_S1	120 IMG 120 SPE	1434	1440	55	0
JRM_008	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_014	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_015	SCI_I1_S1	150 IMG 150 SPE	1770	1800	149-150	148-149-150
JRM_016	SCI_I1_S1	100 IMG 100 SPE	1188	1200	100	100
JRM_017	SCI_I1_S1	150 IMG 150 SPE	1770	1800	149-150	148-149-150



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JRM_021	SCI_I1_S1	150 IMG 150 SPE	1764	1800	148-149-150	148-149-150
JRM_022	SCI_I1_S1	100 IMG 100 SPE	1176	1200	99-100	99-100
JRM_023	SCI_I1_S1	150 IMG 150 SPE	1776	1800	149-150	149-150
JRM_024 To JRM_034	SCI_I1_S0	33 IMG	198	198	N/A	0
JRM_035	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0

Table 3: Data Overwier

## 7 SCIENTIFIC RESULTS

Aldebaran image in L band (see Fig.4-5), obtained by averaging on all images where the star was on L band (1<sup>st</sup> block of data only). The star fills more than a single pixel. To ensure that all the light is collected, the data is integrated over all pixels (actually, only ~9 pixels give a significant contribution). Same for M band (see Fig. 6-7)



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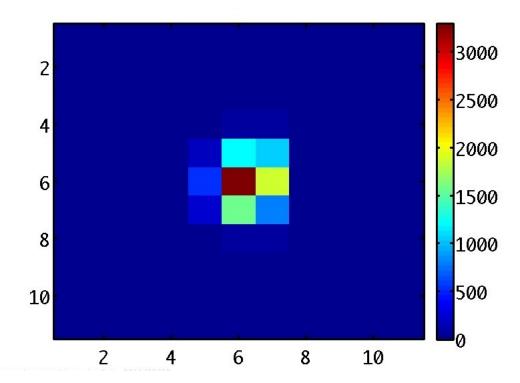


Figure 4: ALDEBARAH image in L band (linear scale)

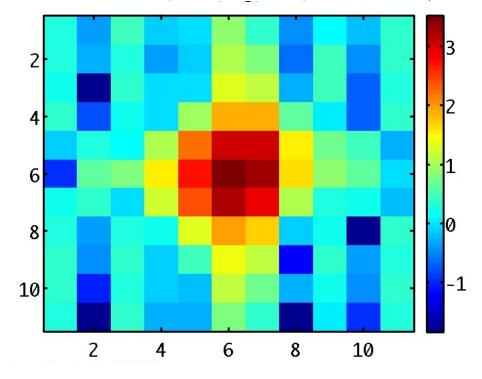


Figure 5:ALDEBARAH image in L band (Logarithmic scale)



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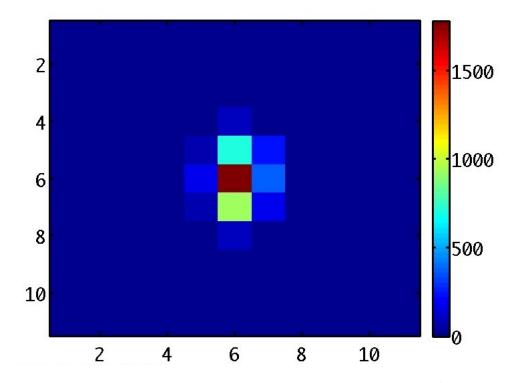


Figure 6: ALDEBARAH image in M band (Linear scale)

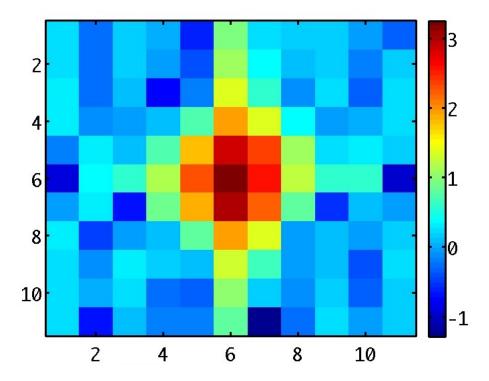


Figure 7: ALDEBARAH image in M band (Logarithmic scale)

# Jun@

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# **A.1** Commanding file (sasf)

\*

```
JIRAM PLAN ORBIT1GRAV PJ-1157h PJ-1156h (pcp).jir
AP00 jm0001 C Radiation Sequence requests EP v03.rad
CCSD3ZF0000100000001NJPL3KS0L015$$MARK$$;
MISSION NAME = JUNO;
SPACECRAFT NAME = JUNO;
DATA SET ID = SPACECRAFT ACTIVITY SEQUENCE JRM;
FILE NAME = jm0001 JRMb.sasf;
APPLICABLE START TIME = 2016-192T00:00:00.000;
APPLICABLE STOP_TIME = 2016-211T00:00:00.000;
PRODUCT CREATION TIME = 2016-161T20:57:54.000;
PRODUCER_ID = JRMTEAM;
SEQ_ID = jm0001_JRMb;
HOST_ID = JRM_CMD_jm0001_V08.jrm;
CCSD3RE00000$$MARK$$NJPL3IF0M0130000001;
$$JNO
         SPACECRAFT ACTIVITY SEQUENCE FILE
******************
*PROJECT
*SPACECRAFT 61
*OPERATOR JRMTEAM
*FILE_CMPLT TRUE
*DATE
           Thu Jun 09 20:57:54 2016
*BEGIN
           2016-192T00:00:00.000
*CUTOFF
           2016-211T00:00:00.000
           jm0001_JRMb
*TITLE
*EPOCHS DEF
*jm0001_JRM,
                 2016-192T00:00:00.000
*EPOCHS_END
*Input files used:
*File Type Last modified
                                   File name
*****************
$$EOH
$$EOD
request(JRM Sequence Management Request,
          START_TIME, 2016-192T00:00:00.000,
          TITLE, "JRM MAINTENANCE",
          REQUESTOR, "JRMTE PROCESSOR, "VC2",
                    "JRMTEAM",
          KEY, "No_Key")
activity(1,
        SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
           SEQTRAN directive
           (VML_START,2001-001T00:00:00.000,2030-
001T00:00:00.000, "ABSLTE", "jm0001 JRM", "jm0001 JRM.abs", "d:/seq")
    command(2,
           SCHEDULED TIME, \00:00:30\, FROM PREVIOUS START,
```



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```
FILE DELETE("d:/seq/jm0001 JRM.abs")
           ),
     command(3,
             SCHEDULED TIME, \018T23:59:58\, FROM REQUEST START,
             VM LOAD(20, "d:/seq/jm0002 JRM.abs")
 end;
request(JRM 001,
              START TIME, 2016-192T02:38:36.000,
              TITLE, "jm0001 JRM Heater Op",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
      command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             THRM SET PT SEL("JIRAM OH", "OPERATIONAL")
      ),
      command(2,
             SCHEDULED TIME, \00:00:01\, FROM PREVIOUS START,
             THRM SET PT SEL("JIRAM DECON", "OPERATIONAL")
      ),
      command(3,
             SCHEDULED TIME, \03:10:00\, FROM PREVIOUS START,
             THRM SET PT SEL("JIRAM ELECT BP", "OPERATIONAL")
      ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN"\
            ),
 end;
request(JRM 002,
              START TIME, 2016-192T07:59:36.000,
              TITLE, "jm0001_JRM-POWER_ON",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
          spawn(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              REQ ENGINE ID, 21, RT on board block(jiram pwr on)
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 003,
              START_TIME, 2016-192T08:02:19.000,
              TITLE, "jm0001_JRM_StandBy",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM_SET_PAR(111,2)
```



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```
),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STANDBY("ON","ON","ON")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S3",120,1,10,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE
",0,956,2,150,"LOW","LOW","POINT",-
57343,2,150,"LOW","LOW","SPIN",0,"NO SUMMED SCI")
          ),
           note(1,
              SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 004,
              START_TIME, 2016-192T08:02:31.000,
              TITLE, "jm0001 JRM Calibration",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM ERROR LOG()
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM CAL PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(5,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM CALIBRATION("CAL I1 S1","IDIS SDIS","DISABLE",1,"LAMP 1")
          ),
       command(6,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM_STOP_HS_REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Lamp1"\
           ),
 end;
request(JRM 005,
              START TIME, 2016-192T08:06:51.000,
```



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```
TITLE, "jm0001 JRM Calibration",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM ERROR LOG()
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_START_HS_REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM CALIBRATION("CAL I1 S1","IDIS SDIS","DISABLE",1,"LAMP 2")
          ),
       command(6,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM_STOP_HS_REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Lamp2"\
           ),
 end;
request(JRM 006,
              START TIME, 2016-192T08:11:11.000,
              TITLE, "jm0001 JRM Calibration",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
             JRM ERROR LOG()
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM CAL PAR(8,14,8,14,15,350,15,350,15,350,15,350,15,350,200,200,153,153)
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
```



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```
),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_CALIBRATION("CAL_I1_S1","IDIS_SDIS","DISABLE",1,"BOTH_LAMPS")
       command(6,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \ "Both-Lamps" \
           ),
 end;
request(JRM 007,
              START_TIME, 2016-192T08:15:31.000,
              TITLE, "jm0001 JRM Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(74,0)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S1",120,1,40,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
159, "NO SUMMED SCI")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(5,
             SCHEDULED TIME, \01:00:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(6,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"pcp europa"\
           ),
 end;
request(JRM 008,
              START TIME, 2016-192T09:16:30.000,
```



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```
TITLE, "jm0001 JRM Calibration",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM CALIBRATION("CAL I1 S1","IDIS SDIS","DISABLE",1,"LAMP 1")
          ),
       command(5,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(6,
             SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 009,
              START TIME, 2016-192T09:20:50.000,
              TITLE, "jm0001 JRM-POWER OFF",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
     command(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              VM LOAD(21, "d:/seq/hlfp_spm safe_jiram.mod")
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM_010,
              START TIME, 2016-192T09:21:06.000,
              TITLE, "jm0001 JRM Heater Op",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
```



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```
command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             THRM SET PT SEL("JIRAM OH", "NON OPERATIONAL")
      ),
      command(2,
             SCHEDULED TIME, \00:00:01\, FROM PREVIOUS START,
             THRM SET_PT_SEL("JIRAM_DECON", "NON_OPERATIONAL")
      ),
      command(3,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             THRM_SET_PT_SEL("JIRAM_ELECT_BP","NON_OPERATIONAL")
      ),
           note(1,
              SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT, \"NaN"\
           ),
 end;
request(JRM 011,
              START_TIME, 2016-202T03:06:05.000,
              TITLE, "jm0001 JRM Heater Op",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
      command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             THRM SET PT_SEL("JIRAM_OH", "OPERATIONAL")
      command(2,
             SCHEDULED TIME, \00:00:01\, FROM PREVIOUS START,
             THRM SET PT SEL("JIRAM DECON", "OPERATIONAL")
      ),
      command(3,
             SCHEDULED TIME, \03:10:00\, FROM PREVIOUS START,
             THRM SET PT SEL("JIRAM ELECT BP", "OPERATIONAL")
      ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM_012,
              START_TIME, 2016-202T08:27:05.000,
              TITLE, "jm0001_JRM-POWER_ON",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
          spawn(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              REQ ENGINE ID, 21, RT on board block (jiram pwr on)
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
```



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```
request(JRM 013,
              START TIME, 2016-202T08:29:48.000,
              TITLE, "jm0001_JRM_StandBy",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(111,10)
          ),
       command(2,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM STANDBY("ON", "ON", "ON")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S3",120,1,10,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE
",0,956,2,150,"LOW","LOW","POINT",-
57343,2,150,"LOW","LOW","SPIN",0,"NO SUMMED SCI")
          ),
              SCHEDULED TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM_014,
              START TIME, 2016-202T08:30:00.000,
              TITLE, "jm0001 JRM Calibration",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
          ),
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM CALIBRATION("CAL I1 S1","IDIS SDIS","DISABLE",1,"LAMP 1")
          ),
       command(5,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM STOP_HS_REC()
          ),
       command(6,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
```



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```
JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 015,
              START TIME, 2016-202T08:34:20.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM SCI PAR("SCI I1 S1",150,1,50,"IDIS SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
5257, "NO SUMMED SCI")
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(4,
             SCHEDULED TIME, \01:15:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Approach Segment" \
           ),
 end;
request(JRM_016,
              START_TIME, 2016-202T09:54:11.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM SCI PAR("SCI I1 S1",100,1,50,"IDIS SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
4938, "NO SUMMED SCI")
          ),
       command(2,
```



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```
SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(4,
             SCHEDULED TIME, \00:50:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(5,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Central Segment" \
           ),
 end;
request(JRM 017,
              START TIME, 2016-202T10:49:02.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM SCI PAR("SCI I1 S1",150,1,50,"IDIS SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
4779, "NO SUMMED SCI")
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(4,
             SCHEDULED TIME, \01:15:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_STOP_HS_REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Departure Segment"\
           ),
 end;
request(JRM_018,
```



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```
START TIME, 2016-202T12:06:53.000,
              TITLE, "jm0001 JRM-POWER OFF",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
     command(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              VM LOAD(21, "d:/seq/hlfp_spm safe_jiram.mod")
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 019,
              START TIME, 2016-202T12:07:09.000,
              TITLE, "jm0001_JRM-POWER_ON",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
          spawn(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              REQ ENGINE ID, 21, RT on board block(jiram pwr on)
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 020,
              START TIME, 2016-202T12:09:52.000,
              TITLE, "jm0001_JRM_StandBy",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(111,10)
          ),
       command(2,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM_STANDBY("ON","ON","ON")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S3",120,1,10,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE
",0,956,2,150,"LOW","LOW","POINT"
57343,2,150,"LOW","LOW","SPIN",0,"NO_SUMMED_SCI")
          ),
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
```



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```
request(JRM 021,
              START TIME, 2016-202T12:10:04.000,
              TITLE, "jm0001_JRM_Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
       command(1,
             SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
JRM SCI PAR("SCI I1 S1",150,1,50,"IDIS SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
5257, "NO_SUMMED_SCI")
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(4,
             SCHEDULED TIME, \01:15:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Approach Segment" \
           ),
 end:
request(JRM 022,
              START TIME, 2016-202T13:29:55.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
       command(1,
             SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
JRM_SCI_PAR("SCI_I1_S1",100,1,50,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
4938, "NO SUMMED SCI")
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
```



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```
command(4,
             SCHEDULED TIME, \00:50:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
       command(5,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Central Segment"\
           ),
 end;
request(JRM 023,
              START TIME, 2016-202T14:24:46.000,
              TITLE, "jm0001_JRM_Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No_Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM SCI PAR("SCI I1 S1",150,1,50,"IDIS SDIS","HSSL","ENABLE","DARK","DISABLE
",0,3,5000,5000,"LOW","LOW","POINT",-57343,5000,5000,"LOW","LOW","SPIN",-
4779, "NO SUMMED SCI")
          ),
       command(2,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM_START_HS_REC()
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(4,
             SCHEDULED TIME, \01:15:39\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"ALDEBARAN HYADES Departure Segment"\
           ),
 end;
request(JRM_024,
              START_TIME, 2016-202T15:45:48.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED_TIME, \00:00:00\, FROM_REQUEST_START,
```



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```
JRM SET PAR(92,153)
          ),
      command(2,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
      command(3,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
      command(4,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM START HS REC()
          ),
      command(5,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(6,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
      command(7,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
      command(8,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(9,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(10,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
       command(11,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(12,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
            JRM STOP HS REC()
          ),
       command(13,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
```



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```
JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Radiation Sequence 00 001 PostJOIpxMap 2016-
202T15:45:48.000"\
           ),
 end;
request(JRM_025,
              START TIME, 2016-202T15:50:18.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
            SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(3,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(5,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(6,
             SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(7,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
       command(8,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
```



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```
command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(10,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
            SCHEDULED_TIME, \00:00:02\, FROM PREVIOUS START,
            JRM_SCIENCE()
          ),
       command(12,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT, \"Radiation Sequence 00 002 PostJOIpxMap 2016-
202T15:50:18.000"\
           ),
 end;
request(JRM 026,
              START TIME, 2016-202T15:54:48.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED_TIME, \00:00:00\, FROM_REQUEST_START,
             JRM_SET_PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(3,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
```



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```
JRM START HS REC()
          ),
      command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(7,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
      command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(10,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
      command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
      command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM SET PAR(92,8174)
          ),
      command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Radiation_Sequence_00_003_PostJOIpxMap_2016-
202T15:54:48.000"\
           ),
 end;
request(JRM 027,
              START TIME, 2016-202T15:59:18.000,
```



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```
TITLE, "jm0001 JRM Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
             KEY, "No Key")
      command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
      command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(3,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
      command(4,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM START HS REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(6,
             SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(7,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
      command(8,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(9,
            SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(10,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
      command(11,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
```



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```
command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT,\"Radiation Sequence 00 004 PostJOIpxMap 2016-
202T15:59:18.000"\
           ),
 end;
request(JRM_028,
              START TIME, 2016-202T16:03:48.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED_TIME, \00:00:00\, FROM_REQUEST_START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_START_HS_REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(7,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
```



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```
JRM GET PAR(6000)
          ),
       command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(10,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Radiation Sequence 00 005 PostJOIpxMap 2016-
202T16:03:48.000"\
           ),
 end;
request(JRM 029,
              START TIME, 2016-202T16:08:18.000,
              TITLE, "jm0001_JRM_Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
```



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```
command(3,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
      command(4,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM START HS REC()
          ),
      command(5,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(6,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(7,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
       command(8,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(9,
            SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(10,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM GET PAR(6000)
          ),
      command(11,
            SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
            JRM SCIENCE()
          ),
      command(12,
            SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
            JRM STOP HS REC()
          ),
      command(13,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM SET PAR(92,8174)
          ),
      command(14,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             TEXT, \"Radiation_Sequence_00_006_PostJOIpxMap_2016-
```



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```
202T16:08:18.000"\
           ),
 end;
request(JRM_030,
              START TIME, 2016-202T16:12:48.000,
              TITLE, "jm0001 JRM Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
             KEY, "No Key")
      command(1,
             SCHEDULED_TIME, \00:00:00\, FROM_REQUEST_START,
            JRM_SET_PAR(92,153)
          ),
      command(2,
            SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
      command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
            JRM START HS REC()
          ),
      command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
      command(7,
            SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
            JRM GET PAR(6000)
          ),
      command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
      command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,5000,5000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(10,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
```



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```
JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM_SCIENCE()
          ),
       command(12,
             SCHEDULED_TIME, \00:01:12\, FROM_PREVIOUS_START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_SET_PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
              TEXT, \"Radiation Sequence 00 007 PostJOIpxMap 2016-
202T16:12:48.000"\
           ),
 end;
request(JRM 031,
              START_TIME, 2016-202T16:17:18.000,
              TITLE, "jm0001_JRM_Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,2500,2500,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
```



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```
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,2500,2500,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(7,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,2500,2500,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(10,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(12,
             SCHEDULED_TIME,\00:01:12\,FROM_PREVIOUS_START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT,\"Radiation Sequence 00 008 PostJOIpxMap500ms 2016-
202T16:17:18.000"\
            ),
 end;
request(JRM 032,
               START TIME, 2016-202T16:21:48.000,
              TITLE, "jm0001_JRM_Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
```



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SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,

```
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,1000,1000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(3,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
             JRM START HS REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,1000,1000,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(7,
             SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,1000,1000,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(10,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED_TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
```



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```
SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Radiation Sequence 00 009 PostJOIpxMap200ms 2016-
202T16:21:48.000"\
           ),
 end;
request(JRM 033,
              START_TIME, 2016-202T16:26:18.000,
              TITLE, "jm0001_JRM_Science",
             REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,500,500,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(3,
             SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS_START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(5,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,500,500,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(7,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
```



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```
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,500,500,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(10,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT,\"Radiation Sequence 00 010 PostJOIpxMap100ms 2016-
202T16:26:18.000"\
            ),
 end;
request(JRM 034,
              START TIME, 2016-202T16:30:48.000,
              TITLE, "jm0001 JRM Science",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             JRM SET PAR(92,153)
          ),
       command(2,
             SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,250,250,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM START HS REC()
          ),
       command(5,
```



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```
SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(6,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM_SCI_PAR("SCI_I1_S0",1,1,0,"IDIS_SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,250,250,"LOW","LOW","POINT",-
57025, "NO_SUMMED_SCI")
          ),
       command(7,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(8,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(9,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
JRM SCI PAR("SCI I1 S0",1,1,0,"IDIS SDIS","HSSL","ENABLE","RN","DISABLE",0,0
,0,0,"LOW","LOW","POINT",28991,250,250,"LOW","LOW","POINT",-
57025, "NO SUMMED SCI")
          ),
       command(10,
             SCHEDULED_TIME, \00:00:04\, FROM_PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(11,
             SCHEDULED TIME, \00:00:02\, FROM PREVIOUS START,
             JRM SCIENCE()
          ),
       command(12,
             SCHEDULED TIME, \00:01:12\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(13,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM SET PAR(92,8174)
          ),
       command(14,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"Radiation Sequence 00 011 PostJOIpxMap50ms 2016-
202T16:30:48.000"\
           ),
 end;
request(JRM 035,
              START TIME, 2016-202T16:35:02.000,
              TITLE, "jm0001 JRM Calibration",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
```



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```
KEY, "No Key")
       command(1,
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,30,700,200,200,153,153)
          ),
       command(2,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM GET PAR(6000)
          ),
       command(3,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_START_HS_REC()
          ),
       command(4,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM_CALIBRATION("CAL_I1_S1","IDIS_SDIS","DISABLE",1,"LAMP_1")
          ),
       command(5,
             SCHEDULED TIME, \00:04:00\, FROM PREVIOUS START,
             JRM STOP HS REC()
          ),
       command(6,
             SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
             JRM ERROR LOG()
          ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN"\
           ),
 end;
request(JRM 036,
              START TIME, 2016-202T16:39:22.000,
              TITLE, "jm0001_JRM-POWER_OFF",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
     command(1,
              SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
              VM LOAD(21, "d:/seq/hlfp spm safe jiram.mod")
           ),
           note(1,
              SCHEDULED TIME, \00:00:04\, FROM PREVIOUS START,
              TEXT, \"NaN" \
           ),
 end;
request(JRM 037,
              START_TIME, 2016-202T16:39:38.000,
              TITLE, "jm0001 JRM Heater Op",
              REQUESTOR, "JRMTEAM", PROCESSOR, "VC2",
              KEY, "No Key")
             SCHEDULED TIME, \00:00:00\, FROM REQUEST START,
             THRM SET PT SEL("JIRAM OH", "NON_OPERATIONAL")
```



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```
),
command(2,
SCHEDULED_TIME,\00:00:01\,FROM_PREVIOUS_START,
THRM_SET_PT_SEL("JIRAM_DECON","NON_OPERATIONAL")
),
command(3,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
THRM_SET_PT_SEL("JIRAM_ELECT_BP","NON_OPERATIONAL")
),
end;
$$EOF
```