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Juno JIRAM

Report JM0252

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1 INTRODUCTION

This document describes the activities that JIRAM performed during the activity period JM0252 (orbit 25), with particular attention to the comparison between the expected and returned data, keeping track of the instrument configuration with the commanding file (SASF).

2 REFERENCES

Adriani A., M.L. Moriconi, A. Mura, F. Tosi, G. Sindoni, R. Noschese, A. Cicchetti, G. Filacchione (2016), Juno's Earth flyby: the Jovian infrared Auroral Mapper preliminary results, 2016. *Astrophys. Space Sci.* <https://doi.org/10.1007/s10509-016-2842-9>

Adriani, A., Filacchione, G., Di Iorio, T., Turrini, D., Noschese, R., Cicchetti, A., Grassi, D., Mura, A., Sindoni, G., Zambelli, M., Piccioni, G., Capria, M. T., Tosi, F., Orosei, R., Dinelli, B. M., Moriconi, M. L., Roncon, E., Lunine, J. I., Becker, H. N., Bini, A., Barbis, A., Calamai, L., Pasqui, C., Nencioni, S., Rossi, M., Lastri, M., Formaro, R., Olivieri, A., 2017. JIRAM, the Jovian Infrared Auroral Mapper. *Space Sci. Rev.* 213, 1–4, pp 393-446. <https://doi.org/10.1007/s11214-014-0094-y>.

Becker, H.N., Alexander, J.W., Adriani, A., Mura, A., Cicchetti, A., Noschese, R., Jørgensen, J.L., Denver, T., Sushkova, J., Jørgensen, A., Benn, M., Connerney, J.E.P., Bolton, S.J., the Selex Galileo Juno SRU Team, Allison, J., Watts, S., Adumitroaie, V., Manor-Chapman, E.A., Daubar, I.J., Lee, C., Kang, S., McAlpine, W.J., Di Iorio, T., Pasqui, C., Barbis, A., Lawton, P., Spalsbury, L., Loftin, S., Sun, J., 2017. The Juno Radiation Monitoring (RM) Investigation. *Space Sci. Rev.* 213, 1-4, pp 507-545. <https://10.1007/s11214-017-0345-9>.

R. Noschese, A. Cicchetti, R. Sordini, M. Cartacci, S. Brooks, M. Lastri, A. Adriani, A. Mura, G. Filacchione, H. Becker, A. Bini, C. Pasqui, A. Migliorini, M.L. Moriconi, D. Grassi, F. Altieri, B.M. Dinelli, G. Piccioni, F. Tosi, D. Turrini, G. Sindoni, A. Olivieri, C. Plainaki. Juno/JIRAM: planning and commanding activities. *Adv. Space Res.* (2019) <https://doi.org/10.1016/j.asr.2019.09.052>

3 ACTIVITY DESCRIPTION

During the orbit 25, JIRAM performed observations also during the apojove period, planning observations to see the Jupiter moon Callisto.

Details about imager/spectrometer coupling and more in general about the instrument and its performance can be found in Adriani et al. (2017), Noschese et al. (2019).

Due to an uncertainty in the actual pointing of the JIRAM frame (which is affected by the position of the despinning mirror at the time of the observation), the JIRAM team found that the precision of the reconstruction of the geometry of both IMG and SPE pixels should be revised by a value of no less than 0.1 degrees. We want to underline that this issue was only discovered during JM0131, when we started to do systematic limb observations near Perijove (PJ) and we could compare the calculated

position of the planet's limb, using the reconstructed kernels, with respect to its actual position in the image we collected with our instrument.

4 RADIATION SEQUENCES

No observations have been planned.

5 SCIENTIFIC GOALS

Below is a table that describes for each science block in the commanding file the relative operational mode and the scientific objectives. The files relating to the various science blocks are shown in the file "JIR_STATUS_EDR_2020047T140527_V01.CSV" in the INDEX directory.

JRM (sarf)	Operational Mode	Goals
JRM_004	CAL_I1_S1	INTERNAL CALIBRATION
JRM_005	SCI_I1_S0	CALLISTO
JRM_006	SCI_I1_S0	CALLISTO
JRM_007	SCI_I1_S0	CALLISTO
JRM_008	SCI_I1_S0	CALLISTO
JRM_009	SCI_I1_S1	CALLISTO
JRM_010	SCI_I1_S1	CALLISTO
JRM_011	SCI_I1_S1	CALLISTO
JRM_012	SCI_I1_S1	CALLISTO
JRM_013	SCI_I1_S1	CALLISTO
JRM_014	SCI_I1_S1	CALLISTO
JRM_015	SCI_I1_S1	CALLISTO
JRM_016	SCI_I1_S1	CALLISTO
JRM_017	SCI_I1_S1	CALLISTO
JRM_018	SCI_I1_S1	CALLISTO
JRM_019	SCI_I1_S1	CALLISTO
JRM_020	SCI_I1_S1	CALLISTO
JRM_021	SCI_I1_S1	CALLISTO
JRM_022	SCI_I1_S0	CALLISTO
JRM_023	SCI_I1_S0	CALLISTO
JRM_024	SCI_I1_S0	CALLISTO
JRM_025	SCI_I1_S0	CALLISTO
JRM_026	SCI_I1_S0	CALLISTO
JRM_027	CAL_I1_S1	INTERNAL CALIBRATION

Table 1: Scientific Goals

6 DATA COLLECTION OVERVIEW

Below is a table that gives an overview of the data collected during the activity period JM0252. The table describes, for each science block in the commanding file, the programmed operational modes and the data actually collected.

JRM (sarf)	Operational Mode	Observations	Packets Retrieved	Packets Expected	Missing Observations SPE	Missing Observations IMG
JRM_004	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0
JRM_005	SCI_I1_S0	20 IMG	120	120	N/A	0
JRM_006	SCI_I1_S0	18 IMG	108	108	N/A	0
JRM_007	SCI_I1_S0	18 IMG	108	108	N/A	0
JRM_008	SCI_I1_S0	15 IMG	90	90	N/A	0
JRM_009	SCI_I1_S1	20 IMG 20 SPE	240	240	0	0
JRM_010	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_011	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_012	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_013	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_014	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_015	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_016	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_017	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_018	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_019	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_020	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_021	SCI_I1_S1	18 IMG 18 SPE	216	216	0	0
JRM_022	SCI_I1_S0	20 IMG	120	120	N/A	0
JRM_023	SCI_I1_S0	18 IMG	108	108	N/A	0
JRM_024	SCI_I1_S0	18 IMG	108	108	N/A	0
JRM_025	SCI_I1_S0	18 IMG	108	108	N/A	0
JRM_026	SCI_I1_S0	5 IMG	30	30	N/A	0
JRM_027	CAL_I1_S1	6 IMG 6 SPE	72	72	0	0

Table 2: Data Overview

A.1 Commanding file (SASF)

```

CCSD3ZF0000100000001NJPL3KS0L015$$MARK$$;
MISSION_NAME = JUNO;
SPACECRAFT_NAME = JUNO;
DATA_SET_ID = SPACECRAFT_ACTIVITY_SEQUENCE_JRM;
FILE_NAME = jm0252_JRMa.sasf;
APPLICABLE_START_TIME = 2020-074T03:00:00.000;
APPLICABLE_STOP_TIME = 2020-100T13:00:00.000;
PRODUCT_CREATION_TIME = 2020-043T11:17:17.000;
PRODUCER_ID = JRMTEAM;
SEQ_ID = jm0252_JRMa;
HOST_ID = JRM_CMD_252_252_V02.jrm;
CCSD3RE000000$$MARK$$NJPL3IF0M01300000001;
$$JNO      SPACECRAFT ACTIVITY SEQUENCE FILE
*****
*PROJECT      JNO
*SPACECRAFT  61
*OPERATOR    JRMTEAM
*FILE_CPLT   TRUE
*DATE        Tue Feb 11 11:17:17 2020
*BEGIN       2020-074T03:00:00.000
*CUTOFF      2020-100T13:00:00.000
*TITLE       jm0252_JRMa
*EPOCHS_DEF
*jm0252_JRM,      2020-074T03:00:00.000
*EPOCHS_END
*Input files used:
*File Type  Last modified           File name
*PACKETS_NUMBER 3876
*****
$$EOH
$$EOD
request(JRM_Sequence_Management_Request,
        START_TIME,2020-074T03:00:00.000,
        TITLE, "JRM MAINTENANCE",
        REQUESTOR, "JRMTEAM",
        PROCESSOR, "VC2",
        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","jm0252_JRM","jm0252_JRM.abs","d:/seq")
        ),
        command(2,
        SCHEDULED_TIME,\00:00:30\,FROM_PREVIOUS_START,
        FILE_DELETE("d:/seq/jm0252_JRM.abs")
        ),
        command(3,
        SCHEDULED_TIME,\026T09:59:58\,FROM_REQUEST_START,
        VM_LOAD(20,"d:/seq/jm0261_JRM.abs")
        ),
        end;

request(JRM_001,
        START_TIME,2020-099T15:01:05.000,
        TITLE, "jm0252_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")
        ),

```

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```

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_BE","OPERATIONAL")
),
    note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\"NaN\"
    ),
end;

request(JRM_002,
    START_TIME,2020-099T20:22:05.000,
    TITLE, "jm0252_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,2020-099T20:24:48.000,
    TITLE, "jm0252_JRM_StandBy",
    REQUESTOR, "JRMTEAM",
    PROCESSOR, "VC2",
    KEY, "No_Key")
    command(1,
        SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
        JRM_SET_PAR(111,2)
    ),
    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_I2_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,2020-099T20:25:00.000,
    TITLE, "jm0252_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()

```

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```

),
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_005,
  START_TIME,2020-099T20:29:31.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCI_PAR("SCI_I1_S0",20,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,35,5000,0,"LOW","LOW",
  "POINT",-57343,5000,0,"LOW","LOW","SPIN",606,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:10:48\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_006,
  START_TIME,2020-099T20:40:42.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCI_PAR("SCI_I1_S0",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,39,5000,0,"LOW","LOW",
  "POINT",-57343,5000,0,"LOW","LOW","SPIN",629,"NO_SUMMED_SCI")
),

```

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```

command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_007,
    START_TIME,2020-099T20:50:52.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCI_PAR("SCI_I1_S0",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,39,5000,0,"LOW","LOW",
    "POINT",-57343,5000,0,"LOW","LOW","SPIN",653,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_008,
    START_TIME,2020-099T21:01:02.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

```

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```

JRM_SCI_PAR("SCI_I1_S0",15,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,47,5000,0,"LOW","LOW",
"POINT",-57343,5000,0,"LOW","LOW","SPIN",679,"NO_SUMMED_SCI")
),
command(3,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_START_HS_REC()
),
command(4,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCIENCE()
),
command(5,
SCHEDULED_TIME,\00:08:16\,FROM_PREVIOUS_START,
JRM_ERROR_LOG()
),
command(6,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_STOP_HS_REC()
),
note(1,
SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
TEXT,\"Callisto\"
),
end;

request(JRM_009,
START_TIME,2020-099T21:10:11.000,
TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",20,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,8,5000,5000,"LOW","LOW",
"POINT",-57343,5000,5000,"LOW","LOW","SPIN",1114,"NO_SUMMED_SCI")
),
command(3,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_START_HS_REC()
),
command(4,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCIENCE()
),
command(5,
SCHEDULED_TIME,\00:10:48\,FROM_PREVIOUS_START,
JRM_ERROR_LOG()
),
command(6,
SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_STOP_HS_REC()
),
note(1,
SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
TEXT,\"Callisto\"
),
end;

request(JRM_010,
START_TIME,2020-099T21:21:22.000,
TITLE, "jm0252_JRM_Science",
REQUESTOR, "JRMTEAM",
PROCESSOR, "VC2",
KEY, "No_Key")
command(1,
SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
JRM_SET_PAR(74,0)

```

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```

),
command(2,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1137,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_011,
    START_TIME,2020-099T21:31:32.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1158,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_012,
    START_TIME,2020-099T21:41:42.000,
    TITLE, "jm0252_JRM_Science",
    REQUESTOR, "JRMTEAM",
    PROCESSOR, "VC2",
    KEY, "No_Key")

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```

command(1,
    SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
    JRM_SET_PAR(74,0)
),
command(2,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1180,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_013,
    START_TIME,2020-099T21:51:52.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1201,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
note(1,
    SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
    TEXT,\"Callisto\"
),
end;

request(JRM_014,
    START_TIME,2020-099T22:02:02.000,
    TITLE, "jm0252_JRM_Science",

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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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW
","POINT",-57343,5000,5000,"LOW","LOW","SPIN",1221,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_015,
  START_TIME,2020-099T22:12:12.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW
","POINT",-57343,5000,5000,"LOW","LOW","SPIN",1241,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

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request (JRM_016,
        START_TIME,2020-099T22:22:22.000,
        TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1261,"NO_SUMMED_SCI")
        ),
command(3,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_START_HS_REC()
        ),
command(4,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCIENCE()
        ),
command(5,
        SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
        JRM_ERROR_LOG()
        ),
command(6,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_STOP_HS_REC()
        ),
        note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\ "Callisto"\
        ),
end;

request (JRM_017,
        START_TIME,2020-099T22:32:32.000,
        TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
", "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1280,"NO_SUMMED_SCI")
        ),
command(3,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_START_HS_REC()
        ),
command(4,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCIENCE()
        ),
command(5,
        SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
        JRM_ERROR_LOG()
        ),
command(6,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_STOP_HS_REC()
        ),
        note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\ "Callisto"\

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),
end;

request (JRM_018,
        START_TIME,2020-099T22:42:42.000,
        TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
            ,"POINT",-57343,5000,5000,"LOW","LOW","SPIN",1299,"NO_SUMMED_SCI")
        ),
    command(3,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_START_HS_REC()
        ),
    command(4,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_SCIENCE()
        ),
    command(5,
            SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
            JRM_ERROR_LOG()
        ),
    command(6,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_STOP_HS_REC()
        ),
    note(1,
            SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
            TEXT,\"Callisto\"
        ),
end;

request (JRM_019,
        START_TIME,2020-099T22:52:52.000,
        TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
            ,"POINT",-57343,5000,5000,"LOW","LOW","SPIN",1318,"NO_SUMMED_SCI")
        ),
    command(3,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_START_HS_REC()
        ),
    command(4,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_SCIENCE()
        ),
    command(5,
            SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
            JRM_ERROR_LOG()
        ),
    command(6,
            SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
            JRM_STOP_HS_REC()
        ),
),

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note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_020,
  START_TIME,2020-099T23:03:02.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
  "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1336,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_021,
  START_TIME,2020-099T23:13:12.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCI_PAR("SCI_I1_S1",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,9,5000,5000,"LOW","LOW",
  "POINT",-57343,5000,5000,"LOW","LOW","SPIN",1354,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:09:47\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,

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        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_STOP_HS_REC()
    ),
    note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\"Callisto\"
    ),
end;

request(JRM_022,
    START_TIME,2020-099T23:23:52.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",20,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,34,5000,0,"LOW","LOW",
"POINT",-57343,5000,0,"LOW","LOW","SPIN",967,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:10:49\,FROM_PREVIOUS_START,
    JRM_ERROR_LOG()
),
command(6,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_STOP_HS_REC()
),
    note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\"Callisto\"
    ),
end;

request(JRM_023,
    START_TIME,2020-099T23:35:03.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,

JRM_SCI_PAR("SCI_I1_S0",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,38,5000,0,"LOW","LOW",
"POINT",-57343,5000,0,"LOW","LOW","SPIN",984,"NO_SUMMED_SCI")
),
command(3,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_START_HS_REC()
),
command(4,
    SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
    JRM_SCIENCE()
),
command(5,
    SCHEDULED_TIME,\00:09:48\,FROM_PREVIOUS_START,

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        JRM_ERROR_LOG ()
    ),
    command(6,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_STOP_HS_REC ()
    ),
    note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\"Callisto\"
    ),
end;

request (JRM_024,
    START_TIME,2020-099T23:45:13.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCI_PAR("SCI_I1_S0",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,38,5000,0,"LOW","LOW",
        "POINT",-57343,5000,0,"LOW","LOW","SPIN",1000,"NO_SUMMED_SCI")
    ),
    command(3,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_START_HS_REC ()
    ),
    command(4,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCIENCE ()
    ),
    command(5,
        SCHEDULED_TIME,\00:09:48\,FROM_PREVIOUS_START,
        JRM_ERROR_LOG ()
    ),
    command(6,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_STOP_HS_REC ()
    ),
    note(1,
        SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
        TEXT,\"Callisto\"
    ),
end;

request (JRM_025,
    START_TIME,2020-099T23:55:23.000,
    TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCI_PAR("SCI_I1_S0",18,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,38,5000,0,"LOW","LOW",
        "POINT",-57343,5000,0,"LOW","LOW","SPIN",1016,"NO_SUMMED_SCI")
    ),
    command(3,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_START_HS_REC ()
    ),
    command(4,
        SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
        JRM_SCIENCE ()
    )

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),
command(5,
  SCHEDULED_TIME,\00:09:48\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_026,
  START_TIME,2020-100T00:05:33.000,
  TITLE, "jm0252_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,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCI_PAR("SCI_I1_S0",5,1,0,"IDIS_SDIS","HSSL","ENABLE","DARK","DISABLE",0,160,5000,0,"LOW","LOW",
"POINT",-57343,5000,0,"LOW","LOW","SPIN",1029,"NO_SUMMED_SCI")
),
command(3,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_START_HS_REC()
),
command(4,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_SCIENCE()
),
command(5,
  SCHEDULED_TIME,\00:03:11\,FROM_PREVIOUS_START,
  JRM_ERROR_LOG()
),
command(6,
  SCHEDULED_TIME,\00:00:02\,FROM_PREVIOUS_START,
  JRM_STOP_HS_REC()
),
note(1,
  SCHEDULED_TIME,\00:00:04\,FROM_PREVIOUS_START,
  TEXT,\"Callisto\"
),
end;

request(JRM_027,
  START_TIME,2020-100T00:08:56.000,
  TITLE, "jm0252_JRM_Calibration",
  REQUESTOR, "JRMTEAM",
  PROCESSOR, "VC2",
  KEY, "No_Key")
command(1,
  SCHEDULED_TIME,\00:00:00\,FROM_REQUEST_START,
  JRM_CAL_PAR(8,14,8,14,30,700,30,700,30,700,30,700,200,200,153,153)
),
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,

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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_028,
START_TIME,2020-100T00:13:16.000,
TITLE, "jm0252_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_029,
START_TIME,2020-100T00:13:32.000,
TITLE, "jm0252_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","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_BE","NON_OPERATIONAL")
),
end;
$$EOF$EOF

```