**RPW Operations Centre**

**RPW Operation Plan Template**

ROC-OPS-OTH-NTT-XXXXX-LES

**Iss.01, Rev.01**

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| **Prepared by:**  | **Function:**  | **Signature:**  | **Date** |
| X.Bonnin | RPW Ground Segment Project Manager |  | Dd/mm/yyyy |
| **Verified by:**  | **Function:** | **Signature:**  | **Date** |
| Name | Team Member #2 |  | Dd/mm/yyyy |
| **Approved by:**  | **Function:** | **Signature:**  | **Date** |
| Name | Team Member #3 |  | Dd/mm/yyyy |
| **For application:** | **Function:** | **Signature:** | **Date** |
| Name | Team Member #4 |  | Dd/mm/yyyy |

| **CLASSIFICATION** | **PUBLIC** | [x]  | **RESTRICTED** | [ ]  |
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**Change Record**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Issue** | **Rev.** | **Date** | **Authors** | **Modifications** |
| 1 | 0 |  | X.Bonnin | First issue |
| 1 | 1 |  | X.Bonnin | Renamed to “RPW Operation Plan Template” |
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**Acronym List**

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| **Acronym** | **Definition** |
| FP | Formal parameter |
| ROC | RPW Operations Centre |
| RPW | Radio and Plasma Waves instrument |
| TC | (Tele)command |
| TM | Telemetry |
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# General

## Scope of the Document

This is the operation plan for the [name of the operation]. It provides the relevant information required to prepare and execute the operation, namely:

* Description of the operation
* Operational constraints
* Inputs/outputs such as commands (TC) to be sent, expected telemetry (TM) and other deliverables (report)
* Validation activities

The [name of the operation] consists of [short description of the operation].

## Applicable Documents

This document responds to the requirements of the documents listed in the following table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Mark | **Reference/Iss/Rev** | **Title of the document** | **Authors** | **Date** |
|  | ROC-GEN-MGT-PLN-00041-LES/1/1 | RPW Operations Management Plan | X.Bonnin | 17/11/2017 |
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## Reference Documents

This document is based on the documents listed in the following table:

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| Mark | Reference/Iss/Rev | Title of the document | Authors | Date |
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# Description of the operation

## Overview

*This section shall present the context that leads to request this operation and the objectives.*

## Organization and timing

*This section shall give here the overall timeline of the operation. Especially, each key step and related execution times shall be clearly identified.*

*A table with the relative time and description of the operation steps shall be provided. The relative time values must be relative to the beginning of the operation (i.e., t0 = 0). An additional figure can be added to illustrate the steps.*

*Any spacecraft or other instrument-related event, which is correlated with the operation execution, shall be reported (e.g., switching-on times of other instruments during the interference campaign on-board).*

*A reference to an external document (e.g., E-FECS file(s)) can be given.*

## Orbitography

*This section shall show the expected spacecraft orbit over the operation timeline.*

*Any other orbitography data (e.g., attitude, manoeuvre, visibility, etc.), which has an impact on the operation execution shall be also reported in this section.*

*A table and associated plots can be provided.*

## Success criteria

*This section shall give the operation success criteria.*

# Operational constraints

*This section shall give the relevant information about the operational constraints at both the instrument and mission levels (i.e., telemetry rate, power consumption, specific configuration of the instrument or spacecraft, instrument coordinated science objectives, etc.)*

## Resources allocation

### Power consumption allocation

*This section shall report information about the instrument allocated power consumption over the operation.*

*A reference to an external document can be given.*

### Telemetry allocation

*This section shall report information about the instrument allocated TM bit rate over the operation.*

*A reference to an external document (e.g., TMC file(s)) can be indicated.*

## Instrument-related constraints

*Any constraint related to the RPW instrument shall be listed here.*

*This section can be left blank if no constraint has been identified.*

## Spacecraft-related constraints

*Any constraint related to the spacecraft shall be listed here.*

*This section can be left blank if no constraint has been identified.*

## Ground constraints

*Any constraint related to the ground segment shall be identified here.*

*This section can be left blank if no constraint has been identified.*

# Operation inputs

## Commands

*This section shall list the TC and related formal parameter (FP) values to be executed on-board over the timeline.*

*The list shall be represented as a table, where the TC shall be sorted by the increasing time of execution and gathered by operation step (as detailed in the section 2.2.).*

## Expected telemetry

*This section shall list the main expected TM flow. The values of the relevant TM parameter shall be indicated*

## Failure identification and mitigation

*The possible failures shall be identified (unexpected instrument behaviour or error during a TC execution) and the way to mitigate them (procedure to apply, TC to uplink) during the operation shall be reported here.*

# Validation of the operation

## Expected results overview

*This section shall present an overview of the expected results (science and/or engineering), which lead to validate the operation.*

## Documentation

*This section shall list the engineering/science documentation relative to the validation of the operation. Especially, a reference to the operation validation report shall be given.*

# Appendix

## Operation-related products

### Flight procedure files

*This section shall list the flight procedures and associated sequences used to perform the operation.*

*A reference to an external document can be also provided (e.g., RPW User manual).*

### Operation request files

*This section shall list the operation request files (i.e., IOR, MDOR, PDOR) used to perform the operation if they are already known.*

## Operation-related working group members

*This section shall indicate the members of the working group that participate to the preparation of the operation specification document. The name, institute, contact (email) and expertise shall be at least reported.*

# List of TBC/TBD/TBWs

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| **TBC/TBD/TBW** |
| Reference/Page/Location | Description | Type | Status |
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#  Distribution list

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| --- | --- | --- | --- |
| **LISTS****See Contents lists in “Baghera Web”:**  **Project’s informations / Project’s actors / RPW\_actors.xls** **and tab with the name of the list** **or NAMES below** |  | **Tech\_LESIA** |  |
|  | **Tech\_MEB**  |  |
|  | **Tech\_RPW** |  |
|  | **[Lead-]CoIs** |  |
|  | **Science-CoIs** |  |

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| **INTERNAL**  |

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| **EXTERNAL (To modify if necessary)** |

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| --- | --- | --- | --- | --- | --- | --- |
| CNES |  | C. FIACHETTI |  | AsI/CSRC |  | J.BRINEK |
|  | C. LAFFAYE |  |  | P.HELLINGER |
|  | R.LLORCA-CEJUDO |  |  | D.HERCIK |
|  | E.LOURME |  |  | P.TRAVNICEK |
|  | M-O. MARCHE |  | IAP |  | J.BASE |
|  | E.GUILHEM |  |  | J. CHUM |
|  | J.PANH |  |  | I. KOLMASOVA |
|  | B.PONTET |  |  | O.SANTOLIK |
|  |  |  |  | J. SOUCEK |
|  |  |  |  | L.UHLIR |
| IRFU |  | L. BYLANDER |  | IWF |  | G.LAKY |
|  | C.CULLY |  |  | T.OSWALD |
|  | A.ERIKSSON |  |  | H. OTTACHER |
|  | SE.JANSSON |  |  | H. RUCKER |
|  | A.VAIVADS |  |  | M.SAMPL |
|  |  |  |  | M. STELLER |
| LPC2E |  | P. FERGEAU |  | LPP |  | T.CHUST |
|  | G. JANNET |  |  | A. JEANDET |
|  | T.DUDOK de WIT  |  |  | P.LEROY |
|  | M. KRETZSCHMAR |  |  | M.MORLOT |
|  | V. KRASNOSSELSKIKH |  |  |  |
| SSL |  | S.BALE |  |  |  |