Ukpik-1

*DOCUMENT TITLE*

REVISION NUMBER: *0.1*

DATE: *YYYY-MM-DD*

COMPILED BY: *Name*

CONTRIBUTIONS FROM: *Names*

**Document Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Date | Changes Made | Name |
| 0.1 | YYYY-MM-DD | First Draft | Last Name, First Names |
|  |  |  |  |
|  |  |  |  |

**Reference Documents**

*Insert applicable reference document titles, such as requirements documents*

**Terms, Definitions, Abbreviations**

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| --- | --- |
| CSA | Canadian Space Agency |
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# Requirements

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| --- | --- | --- |
| **Requirement ID** | **Requirement Description** | **Parent Requirement** |
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# Allowable and Survivable Temperatures

*Table of component allowable temperatures including operating and survivable temperatures*

# Heat Generation

*Heat generation by component by spacecraft operating modes*

# Thermal Analysis

*Thermal model and simulation analysis highlighting cold and hot spots*

# Thermal Margins

*Table of operating range compared to worst case hot / cold for components by operating mode*

# Thermal Monitoring

*Schematic of hardware and locations, and interfaces*

# Assembly and Integration Plan

*Provide a step-by-step walkthrough of how the subsystem will be assembled and integrated with the CubeSat*

# Test and Verification Plan

*Provide a step-by-step test and verification plan, including equipment needed and what results in a passing test*

*Requirement verification strategy: Take the subsystem requirements and identify how that requirement will be verified to have been met, and identify the necessary equipment or resources to complete that verifications*

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| **Requirement ID** | **Verification Strategy** | **Resources** |
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# Schedule and Work Plan for Phase C2 and D

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| --- | --- | --- |
| **Task Description** | **Estimation of Time and Human Resources** | **Required Resources to Complete** |
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*Provide a description of the work that remains to be completed to complete the detailed design process. Provided an estimated time required to complete that work. Provide an estimate on the time and schedule for completing the testing, verification, assembly, and integration.*

# Datasheets for COTS Components

*Attach any datasheets or spec sheets for identified COTS components*