**Payload Title:**

**Payload ID:** 2023-XX

**Institution:** \_

**Integration Payload Team Leader:**

**Contact Number:**

**Contact E-mail:**

**Payload has been integrated and is APPROVED FOR FLIGHT OPERATIONS:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

T. Gregory Guzik, HASP Director Date

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Doug Granger, HASP Systems Head Date

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Payload Team Leader Date

**Payload has been integrated, but OUTSTANDING ISSUES NEED TO BE RESOLVED:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

T. Gregory Guzik, HASP Director Date

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Doug Granger, HASP Systems Head Date

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Payload Team Leader Date

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Complete** | **N/A** | **LSU Rep** | **Payload Rep** |  **MECHANICAL**  |
| [ ]  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | The measured weight of the payload (including the payload plate) is \_\_\_\_\_\_\_\_ kilograms. The typical payload plate weight is \_\_\_\_\_\_\_\_ kilograms. The payload weight without the payload plate is \_\_\_\_\_\_\_\_ kilograms. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Mechanical drawing detailing the major components the payload and specifically how the payload is attached to the payload mounting plate has been provided. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Does the payload contain any hazardous component(s)?**YES NO** [ ]  [ ]  - Pressurized container [ ]  [ ]  - Radioactive material [ ]  [ ]  - Biological Samples [ ]  [ ]  - Other, list any here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Documentation detailing all hazardous components has been provided. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The payload is properly secured to the payload plate. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The interior of the payload is properly insulated. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The exterior of the payload is properly shielded and/or insulated. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Other relevant mechanical information has been provided, list any here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Mechanical issues to be resolved (if so, see attached). |
|  |  |  |  |  |
| **Complete** | **N/A** | **LSU Rep** | **Payload Rep** |  **POWER**  |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | The measured current draw at 30 VDC is \_\_\_\_\_\_\_ mA. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | A complete wiring diagram has been provided (applicable if HASP is supplying power to your payload). |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Power connection between payload and mounting plate EDAC connector is wired correctly |
| **[ ]**  | **[ ]**  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | Other relevant power information has been provided, list any here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Electrical issues to be resolved (if so, see attached). |
|  |  |  |  |  |
|  |  |  |  |  |
| **Complete** | **N/A** | **LSU Rep** | **Payload Rep** |  **THERMAL / VACUUM TESTING**  |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | A thermal test over the temperature range \_\_\_\_\_\_\_\_ oC to \_\_\_\_\_\_\_\_ oC has been performed. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Test data showing normal payload function during thermal test has been provided. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | A vacuum test to \_\_\_\_\_\_\_\_ mbar has been performed.. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Test data showing normal payload function during vacuum test has been provided. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Thermal / Vacuum test issues to be resolved (if so, see attached). |
|  |  |  |  |  |
| **Complete** | **N/A** | **LSU Rep** | **Payload Rep** |  **COMMUNICATION**  |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | The observed serial data downlink format is: stream or packetized (circle one). |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The observed serial downlink rate is \_\_\_\_\_\_\_\_ bps. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The serial downlink is functioning properly. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | The downlink data, retrieved from the HASP website, has been validated by the payload team. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | A list of uplink commands has been provided to the HASP team. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | All \_\_\_\_\_\_\_\_ analog channels being used are functioning properly. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | All \_\_\_\_\_\_\_\_ discrete lines being used are functioning properly. |
| [ ]  | [ ]  | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | All \_\_\_\_\_\_\_\_ uplink commands have been tested and are functioning properly. |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Transmitter frequency \_\_\_\_\_\_\_\_ MHz verified |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Transmitter power \_\_\_\_\_\_\_\_ W verified |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Transmitter FCC license verified |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Transmitter functioning normally |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Receiver frequency \_\_\_\_\_\_\_\_ MHz verified |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Receiver functioning normally |
| **[ ]**  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Communication issues to be resolved (if so, see attached). |
|  |  |  |  |  |
|  |  |  |  |  |
| **Complete** | **N/A** | **LSU Rep** | **Payload Rep** |  **LOGISTICS & PLANNING** |
| [ ]  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | A list of all payload team members including contact information has been provided. |
| [ ]  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | A mission operation plan has been submitted. |
| [ ]  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Payload shipping plans from Ft Sumner to home institution documented in FLOP. |
| [ ]  | **[ ]**  | **\_\_\_\_\_\_\_** | **\_\_\_\_\_\_\_** | Logistical and planning issues to be resolved (if so, see attached). |

**OUTSTANDING ISSUES TO BE RESOLVED**