New Hour Log: Test Cases

FRIB-WBS-SUB-000000-RXXX

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# Revision History

|  |  |  |
| --- | --- | --- |
| Revision | Issued | Changes |
|  | Click here to enter date | Click here to enter revision(s) |

# Authorizing Document

A FRIB document [1] (\*if applicable; see section [**Error! Reference source not found.**]).

# Authorized Documents

None.

# Authorized Committees and Boards

None.

# Introduction

NSCL’s Operations Department uses HourLog Application to record operational activities. Over time, the application has grown to provide several other functions such as breakdown status, beam status, schedule, 911 log etc. Due to several factors –unforeseen growth, architecture, and technologies– it has become difficult to maintain the application. HourLog is critical to the current operation of NSCL beamlines, and must meet FRIB’s operational requirements in the near future. Hence, it is desirable to re-engineer the application.

# Requirements

## Scope

The new system will be limited to the functionality of existing Hour Log. Other systems, such as Interruption Compensation

# Specific Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | Description | Requestor |
| NHL-001 | Authorization | Only authorized users must have access restricted information. . | CHL |
| NHL -002 | User Administration | Privileged users must be able to manage authorizations. | CHL |
| NHL -003 | Activity Log | Users must be able to log operational activities. | CHL |
| NHL -004 | Reports | Users must generate the following reports:   * Operations Hour Log Report * Breakdown Report * Experiment Report | CHL |
| NHL -005 | Facility Status | Users must be able to manage a facility’s status. | CHL |
| NHL -006 | Breakdown status | Users must be able to manage breakdown status for various breakdown categories. | CHL |
| NHL -007 | Shift Information | NHL must allow users to manage shift changes. | CHL |
| NHL-008 | Interfaces |  |  |
| NHL-009 | Multiple Facilities | NHL must manage multiple facilities. | Stolz A |
| NHL-010 | Multiple Logbooks | NHL must manage multiple logbooks | Stolz A |
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# Definitions and References

## .Acronyms and Definitions

|  |  |
| --- | --- |
| **Acronym** | **Description** |
| ASD | Accelerator System Division |
| CM | Cryomodule |
| EPICS | Experimental Physics and Industrial Control System |
| ESD | Experiment System Division |
| FAT | Field Acceptance Test |
| FPS | Fast Protection System |
| FRIB | Facility for Rare Isotope Beams |
| GUI | Graphical User Interface |
| GTS | Global Timing System |
| HLA | High Level Applications |
| HMI | Human Machine Interface |
| I/O | Input / Output |
| IOC | EPICS Input/Output Controller. |
| IPMI | Intelligent Platform Management Interface |
| MPS | Machine Protection System |
| NA or n/a | Not Applicable |
| PLC | Programmable Logic Controller |
| PPS | Personnel Protection System |
| PV | Process Variable |
| RDB | Relational Database |
| RDBMS | Relational Database Management System |
| RPS | Run Permit System |
| SBC | Single Board Computer |
| TCP/IP | Transmission Control Protocol/Internet Protocol |

# General System Description

## Functional Requirements

# System Capabilities, Conditions & Constraints

# References

1. A FRIB document (FRIB-TXXXXX-AD-000XXX)
2. FRIB Configuration Management Plan (FRIB-T10201-PL-000044)
3. FRIB Document Control Procedure (FRIB-T10502-PR-000001)
4. FRIB Document Numbering Procedure (FRIB-T10502-PR-000002)
5. FRIB WBS Graphic (FRIB-Z00000-BL-000004)
6. FRIB WBS Dictionary (FRIB-Z00000-BL-000003)
7. Acronym List (FRIB-T10501-AD-000068)

# Appendix – A