



Vera C. Rubin Observatory
Rubin Observatory Operations

System Performance Management and Execution Plan

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Abstract

This document describes the organization and management and execution of the System Performance department in Rubin Operations. It lays out the department goals and describes the department structure, roles and responsibilities as well as interactions with all other Rubin Operations departments.

Change Record

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1	YYYY-MM-DD	Unreleased.	Leanne Guy

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System Performance Management and Execution Plan

1 Introduction

1.1 Purpose

This document defines the mission, goals and objectives, organization and responsibilities of Vera C. Rubin Observatory System Performance Department.

1.2 Mission Statement

Rubin Observatory System Performance department is responsible for ensuring that the Legacy Survey of Space and Time (LSST) as a whole is proceeding with the efficiency and fidelity needed to achieve its science requirements at the end of the 10-year survey. This includes the Wide-Fast-Deep (WFD) survey and all Special Programs (deep drilling fields, Target of Opportunity (ToO) and mini/micro/nano surveys)

1.3 Goals and Objectives

Track and optimise the performance of the entire system including the observatory performance and survey progress with respect to the science objectives, and the evaluation of strategies for improving the survey strategy;

Provide QA and performance characterization analyses of the data products, understand and minimize systematics, gather user feedback – all as input to the Data Release board to assess Rubin’s schedule to make annual data releases;

Enable the community to access and analyze the data and publish results on the four LSST science pillars at an appropriate rate.

Oversight and implementation of Change and Process control through a Change Control Board (CCB), and Risk and Opportunity Management, both chaired by the Lead Systems Engineer.

2 Approach – Lifecycle of the Data

System Performance adopts a lifecycle of the data approach to its work.

3 Processes and tools

4 Team and Organization

System Performance comprises four functional teams.

5 Roles and Responsibilities

This section details the roles and responsibilities in System Performance. They come from the WBS

6 Communications

This section covers intra-department communications and Slack and email are used. High-level slack channels are used for prompt communications

AHM once per year

7 Product Tree

This section details the System Performance products and product tree .

Products include 1) Software, 2) Data Products and Documentation 3) Services,

A References

B Acronyms

Acronym	Description
DM	Data Management