Project Name: F2 Science Commissioning

Business objective served by this project:

To commission F2 as a facility instrument

Project Manager/Leader: Percy Gomez
Project Sponsor: Andy Adamson
PDS Version/Date: Version 1: 10/19/10

Project Description

Issue Statement:
To commission F2.

Project Objective Statement (POS):
Briefly describe the purposes of the project here.

- Check that F2 is ready to go back to the telescope
- Perform on-sky AT
- Commission F2
- System Verification

Project Flexibility:

<table>
<thead>
<tr>
<th>Flexibility Matrix</th>
<th>Least Flexible</th>
<th>Moderately Flexible</th>
<th>Most Flexible</th>
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</thead>
<tbody>
<tr>
<td>Scope</td>
<td>X</td>
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<td>Schedule</td>
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<td>Resources</td>
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Major Deliverables:

- New H2 characterization report (chip and electronics)
- Flex-rig Assessment (includes flexure, repeatability, cooling time, internal background, reliability, time-to-function)
- On-sky AT report
- Commissioning 3 main modes: Imaging (all filters), long-slit spectroscopy (JH, HK, and R3K), and MOS (JH, HK, and R3K)
- Call for SV
- SV data
- Call for proposal
- ITC
- Observing libraries
- Internal and external webpages

Assumptions:
• F2 is ready in early 2011
• We receive an acceptable science grade H2
• We receive the R3K
• We can perform the 2 AT runs, 3 commissioning runs and at least 1 SV run (good weather)
• We are able to commission the OIWFS

IS and IS NOT:
Describe what the project is and what the project is not, you can have as many is or is not as you want.

- IS: commissioning a facility instrument
- IS NOT: An embarrassment.

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**Strategy and Resources**

**Milestones and Stages:**
Define and describe a set of milestones for the project, also define stages that can be used later as off ramp points.

- **Stage 1: Prep F2**
  - Characterize the new H2
  - Assess if it is ready for the flex-rig
- **Stage 2: AT and Commissioning**
  - Assess if it is ready to go on the telescope for on-sky AT
  - Assess if it is ready for commissioning
  - Instrument is commissioned.
- **Stage 3: SV**
  - SV call
  - SV data taken and archived
  - F2 fully commissioned as a facility instrument

**Estimated Costs:**
- Supplies and materials
- Equipment
- Resources
- Spares
- Contracts

**Core Team Members (see Guidelines for Developing New Projects document):**
- Project Manager Percy Gomez
- Project Scientist Percy Gomez
- Systems Engineer Manuel Lazo

**Extended Core Team Members:**
- Science: R. Diaz, P. Pessev, P. Candia, R. Carrasco, E. Wenderoth, A. Serio, A. Stephens, E. Hogan
- Engineering: G. Perez, L. Godoy, M. Boccas, G. Trancho

**Dependencies that require coordination:**
- F2 has to be ready as defined by the F2 Fix and Improvements (OBS10-007A)

**Risks and Issues:**
- F2 is delayed
- Bad weather at the summit

**Supplemental Resources:**