Project Name:					
OBS11-001: New High-Resolution Optical Spectrograph					
Business objective served by this project					
Provide new, in demand, instrumentation for Gemini telescopes					
Project Manager/Leader:	Project Sponsor:	PDS Version/Date:			
Scot Kleinman	Eric Tollestrup	V1 20Oct10			

Project Description

Issue Statement:

The goal of this project is to deliver to the Gemini user community a new, fully commissioned, high resolution, optical spectrograph. Such an instrument has been in demand by the Gemini users and is endorsed by the GSC as our next instrument.

Project Objective Statement (POS):

- Deliver a new high resolution optical spectrograph to the Gemini community that serves their scientific needs
- Develop an instrument that has a focused scope so that schedule and cost can be contained
- Produce an instrument in a visibly new model at Gemini that establishes an effective partnership between all relevant divisions of Gemini with each other and the vendor
- Produce an instrument that is facility class immediately after arrival, testing, verification, and commissioning

Project Flexibility:

Flexibility Matrix	Least Flexible	Moderately Flexible	Most Flexible
Scope			X
Schedule		X	
Resources	X		

Major Deliverables:

- Updated and new ICDs for instrument procurement
- A new model for instrument procurement
- One high resolution optical spectrograph fully integrated into the Gemini environment for normal community use

Assumptions:

- I assume we will have final board approval and an appropriate budget for this project
- I am assuming a "traditional" instrument procurement strategy will be employed

IS and IS NOT:

- IS: the first new instrument to be delivered under the new OBS project structure
- IS: going to provide relevant new and updated ICDs
- IS NOT: going to repeat mistakes of the past
- IS NOT: going to revise or produce new ICDs that do are not directly relevant to this instrument's requirements

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.

See project Plan and Stages and Stage Definitions Documents in Pl

- Stage 1 Instrument Science Requirements
 - Science req. and strawman cost ready for Board
- Stage 2 Instrument and Infrastructure Requirements
 - Revise relevant old ICDs
 - Produce relevant new ICDs
 - Produce Instrument Reqs. from Science Reqs.
- Stage 3 Request for Proposals
 - o FedBizOps
 - o RfP
 - o Review and DownSelect
 - Contract(s) signed
- Stages 4-N in later years

Estimated Costs:

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- Instrument costs to be developed in stages 1-3
- Gemini Resources for 2010 through Feb 2012 in PI: 5,026hr

Core Team Members(see Guidelines for Developing New Projects document):

- Project Manager: Scot Kleinman
- Project Scientist: Steve Margheim
- Systems Engineer: Brian Walls

Extended Core Team Members:

- Andy Flach
- Craig Allen
- Eric Tollestrup
- Gelys Trancho
- Kathleen Labrie
- Kevin Hanna
- Rodrigo Sandoval

- #SSA
- #Astronomer(s)
- #Electrical Engineer
- #Optical Engineer
- #SWHL Engineer

Dependencies that require coordination:

Risks and Issues:

- The board may not approve the funding
- The approved funding may not be enough
- The instrument really desired by our community may not be feasible for resource or technological reasons

Supplemental Resources:

• Willing partners to design and build the instrument