

February 8, 2008

Request for Proposal Submissions for APS Renewal Plan: Accelerator Systems

APS management is putting together a plan to position the APS for the years leading up and into a potential upgrade to the facility. This plan is broad, encompassing all capital expenditures that will benefit the scientific and the accelerator community. Beamlines will submit proposals addressing upgrades that will maximize scientific output, and prepare for the upgrade. Many of these proposals will have implications on accelerator systems, and groups from ASD and AES will be involved in preparing these proposals.

Along side the beamline proposal we are asking for proposals that provide the necessary maintenance and improvements to the accelerator systems and the APS infrastructure. Additionally proposals will be accepted for projects related to the future upgrade.

The logistics for proposal submission are the following: Projects must be submitted in one of six categories. Each of these areas will be managed by a coordinator noted below

- | | |
|--|---------------|
| • Obsolescence/Spares | John Quintana |
| • Accelerator hardware and Insertion Device Upgrades | Efim Gluskin |
| • Beam Stability | Glenn Decker |
| • Accelerator R&D | Rod Gerig |
| • Facilities and Infrastructure | John Maclean |
| • X-ray science enablers | Denny Mills |

We are requesting that you consider and anticipate to the extent possible all projects that will be needed in this time period, at least five years. Of course we will consider new proposals that are necessitated as time goes on.

For the purposes of this request we will be using a template based submission. The level of detail should correspond to a preproposal or white paper. The template is located at http://www.aps.anl.gov/News/Conferences/2006/APS_Upgrade/APS_StrategicPlanningProposal.doc. Instructions for completing the template are included on it. The initial due date is March 28, 2008. Proposals should be submitted to the category coordinator and Rod Gerig.

This request is for major projects, and will draw on AIP (and capital) funding. Thus we request that no projects be submitted that are less than \$100K (total project cost for all years of funding). As has been stated, APS management is committed to restoring a reasonable amount of M&S to the divisions so that smaller projects can be funded and managed by the divisions. However, we anticipate that in many cases it will be appropriate to bundle together a package of smaller projects into a single, but definable project; eg. upgrade storage ring power supplies.

As noted above, a request is going out to beamlines as well. It is certain that many of these proposals will involve ASD and AES groups. It is important that input is provided to these proposals so that we get the right costs and resources loaded into them to allow decisions to be made.

It is likely that there will be no Science Enabling proposals submitted via this request, namely they will come through the request being sent to the beamlines who will provide the scientific justification. However, in case there is something uniquely from the accelerator side, please contact Denny Mills.

Please contact Rod Gerig with any questions.