

Title	<i>Beams UPS Replacement</i>		
Project Requestor	Kenneth Sidorowicz		
Date	11/20/08		
Group Leader(s)	Greg Markovich		
Machine or Sector Manager			
Category			
Content ID*	APS_1284250	Rev.	1
			11/20/08

*This row is filled in automatically on check in to ICMS. See Note ¹

Description:

Start Year (FY)	2009	Duration (Yr)	1
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Objectives:

To replace 2 existing 20kW 3 phase UPSs with 2 60kW 3 phase units.

Benefit:

This will be replacing 6 year old units that are on the verge of being overloaded and the new systems will provide 100% redundancy. XOR has grown from 4 sectors to 15. The original UPS's were sized for the equipment to support 4 sectors. Additional power is needed to support the additional servers and networks required for supporting 15 XOR sectors.

Risks of Project: See Note ²

Several power shutdowns in the computer room will be required

Consequences of Not Doing Project: See Note ³

Computer and server outages are possible due to overloaded conditions on the existing 20KW units. Redundancy is no longer available because we are currently over the 50% limit on each UPS.

Cost/Benefit Analysis: See Note ⁴

The APS technical equipment is controlled by the computers fed from these UPSs. Failure of these UPSs have proven to create extended downtimes

Description:

Replace 2 existing 20kW three phase UPSs with 2 60kW 3 phase units. (Existing 20kW units will be moved to the ICR to replace 2 18 kW single-phase units.)

Risk Rating:

Likelihood = Possible
Impact = Critical
Overall risk = Extreme

Funding Details

Cost: (\$K)

Use FY08 dollars.

Year	AIP	Contingency
1	272	5%
2		
3		
4		
5		
6		
7		
8		
9		
Total	272	5%

Contingency may be in dollars or percent. Enter figure for total project contingency.

Effort: (FTE)

The effort portion need not be filled out in detail by March 28

APS Strategic Planning Proposal

Year	Mechanical Engineer	Electrical Engineer	Physicist	Software Engineer	Tech	Designer	Post Doc	Total
1								0
2								0
3								0
4								0
5								0
6								0
7								0
8								0
9								0

Notes:

¹ **ICMS.** Check in first revision to ICMS as a *New Check In*. Subsequent revisions should be checked in as revisions to that document i.e. *Check Out* the previous version and *Check In* the new version. Be sure to complete the *Document Date* field on the check in screen.

² **Risk Assessment.** Advise of the potential impact to the facility or operations that may result as a consequence of performing the proposed activity. Example: If the proposed project is undertaken then other systems impacted by the work include ... (If no assessment is appropriate then enter NA.)

³ **Consequence Assessment.** Advise of the potential consequences to the facility or to operations if the proposal is not executed. Example: If the proposed project is not undertaken then ____ may happen to the facility. (If no assessment is appropriate then enter NA.)

⁴ **Cost Benefit Analysis.** Describe cost efficiencies or value of the risk mitigated by the expenditure. Example: Failure to complete this maintenance project will result in increased total costs to the APS for emergency repairs and this investment of ____ will also result in improved reliability of _____. (If no assessment is appropriate then enter NA.)