

Title	<i>Upgrade Windows Cluster</i>		
Project Requestor	Kenneth Sidorowicz		
Date	11/19/08		
Group Leader(s)	Kenneth Sidorowicz		
Machine or Sector Manager			
Category			
Content ID*	APS_1276606	Rev.	1
			11/19/2008 8:12 AM

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

Description:

Start Year (FY)	2009	Duration (Yr)	1
------------------------	-------------	----------------------	----------

Objectives:

Replace Windows cluster that was installed in 2002. System failure rate is increasing due to age of equipment and system performance cannot keep up with the demand from the approximately 600 Windows computers that rely on this cluster for their home drive. This cluster also provides the main file share for the ProE machine, all print services that support over 200 printers at the APS, and Citrix profiles.

Benefit:

Reduce downtime for ALL Windows PC's due to loss of their main file server and the capability to print. Provide enhanced performance for all Windows PC's.

Risks of Project: See Note ²

None.

Consequences of Not Doing Project: See Note ³

Not providing upgrades will expose the APS Windows users to downtime due to problems with aging equipment. Data communication will become degraded as the performance of desktop systems and user programs exceeds the server capacity.

Cost/Benefit Analysis: See Note ⁴

Continued maintenance of existing network equipment and servers becomes expensive as the systems age. Around 4-5 years maintenance prices increase and vendor support for system will soon be limited.

Description:

Upgrade Windows cluster servers and storage area network disk array to the latest available from the vendor in order to support increased demand for file share services and reduce downtime due to failures from aging equipment. With the amount of aged computer hardware increasing every year, failure to replace the aged computer hardware will lead to increased maintenance costs and will increase the risk of disruption to APS central services. Servers supporting the APS are over five years old and need replacement as soon as possible to avoid any major outages.

Funding Details

Cost: (\$K)

Use FY08 dollars.

Year	AIP	Contingency
1	\$100K	
2		
3		
4		
5		
6		
7		
8		
9		
Total	\$100K	

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

Effort: (FTE)

APS Strategic Planning Proposal

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

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.)