

Title	LINAC to PAR, PAR, PAR to BOOSTER Valve Controller Upgrade.		
Project Requestor	GAGLIANO, JOSEPH		
Date	3/12/2008		
Group Leader(s)	GOEPPNER, GEORGE A.		
Machine or Sector Manager	SERENO, NICHOLAS S.		
Category	Machine Obsolescence and Spares		
Content ID*	APS_1253928	Rev.	1

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

Description:

Start Year (FY)	2008	Duration (Yr)	1
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Objectives:

To regain reliable control of vacuum valves in LET, PAR, BOOSTER.

Benefit:

Currently a vacuum valve from PAR to BOOSTER is mechanically locked in the open position. This upgrade would provide a reliable vacuum interlock system to the existing

Risks of Project: See Note ²

This would be a low risk project. This would be the same design currently used in the storage ring.

Consequences of Not Doing Project: See Note ³

If a vacuum breach occurred venting a large portion of LET, PAR, or the Booster injection septum downtime would be massive.

Cost/Benefit Analysis: See Note ⁴

The cost benefit is very small in comparison. Machine downtime could be as long as a week plus conditioning.

Description:

Replace obsolete valve controllers with new model (2). Replace obsolete ion pump controllers with current model(12).

Funding Details

Cost: (\$K)

Use FY08 dollars.

Year	AIP	Contingency
1	140	
2		
3		
4		
5		
6		
7		
8		
9		
Total	140	

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

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.)