



ADOA - ASET

Arizona Strategic Enterprise Technology

Project Investment Justification

Version 01.01

A Statewide Standard Document for Information Technology Projects

Project Title:

SDC Facilities Power Replacement

Agency Name:	Arizona Department of Administration
Date:	October 21, 2013
Agency Contact Name:	Kevin Lawler
Agency Contact Phone:	
Agency Contact Email:	

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I. Management Summary*

In Fiscal Year 2013 (FY13), the Arizona Department of Administration's Arizona Strategic Enterprise Technology Office (ADOA-ASET) completed a number of initiatives designed to enhance the supporting infrastructure and resiliency of the State Data Center (SDC) environment. In the course of the FY13 SDC Facilities Upgrade project, it was discovered that some of the electrical cables ("whips") that provide power to existing devices in the SDC do not meet current electrical code, making them a potential fire hazard and unsafe for continued use. ADOA-ASET is proposing to utilize FY14 transformation initiative funding to replace those whips which have been deemed non-compliant.

II. Project Investment Justification (PIJ) Type*

Yes No Is this document being provided for a Pre-PIJ / Assessment phase?

If Yes,

Identify any cost to be incurred during the Assessment phase.	\$
Based on research done to date, provide a high-level estimate or range of development costs anticipated for the full PIJ.	\$

Explain:

Yes No Will a Request for Proposal (RFP) be issued as part of the Pre-PIJ or PIJ?

III. Business Case

A. Business Problem*

ADOA-ASET has determined that a number of whips located under the raised floor in the SDC do not meet current electrical code. In addition to being a potential fire risk, the non-compliant cabling is also impacting work on the State Data Center Facilities Upgrade project. A formal assessment by an electrical contractor has identified 112 whips that provide power to the Wide Area Network (WAN) and Telephony cabinets, storage and other devices, which need to be replaced.

B. Proposed Business Solution*

ADOA-ASET is proposing to replace the non-compliant and potentially hazardous whips as soon as possible. ADOA-ASET will work with an electrical cabling vendor to develop and implement a detailed remediation plan to ensure SDC customers will not be impacted. Where feasible, the whips will be connected using a Starline "busway tap box," rather than cabling under the floor. For equipment that is in close physical proximity, the Starline overhead electrical track system provides an optimal power solution for SDC customers at a more economical price point.

C. Quantified Benefits*

- Service enhancement
- Increased revenue
- Cost reduction

- Problem avoidance
- Risk avoidance

Explain:

The State cannot assume the risk associated with keeping electrical cables in the SDC that are no longer code-compliant. These cables must be replaced to ensure that a fire and subsequent Halon fire suppressant deployment does not occur. The impacts of such an incident would be catastrophic, not only jeopardizing the safety of SDC staff, but also resulting in an unscheduled interruption of service for SDC customers. In addition, the State would incur significant expense associated with the clean-up activities resulting from a Halon deployment.

IV. Technology Approach

A. *Proposed Technology Solution**

An assessment was completed on September 20, 2013, by Sabino Electric, Inc., an electrical cabling vendor on State contract, which identified 112 whips considered to be non-compliant with current electrical code standards. Based on this assessment, 42 whips of variable lengths will be replaced on the 2nd floor of the SDC. On the 3rd floor of the SDC, a total of 70 whips will be replaced, with 26 of those being reconnected to the Starline overhead track system, rather than installed under the raised floor. The detail regarding the various devices to which these whips will be connected is reflected in the attached vendor quote. Costs in the PIJ include materials and labor to replace the 112 whips, including a nominal contingency.

B. *Technology Environment*

The electrical cabling that needs to be replaced in the SDC dates back to 1988. All of the cabling and connectors to be installed are already in use within the SDC and will integrate easily into that environment.

C. *Selection Process*

ADOA-ASET will utilize Sabino Electric resources to complete the cabling replacement. Sabino Electric was selected because they have been performing electrical work in the SDC for the past five (5) years and have more knowledge about the SDC's electrical layout and design than other vendors on State contract.

V. Project Approach

A. *Project Schedule**

Project Start Date: 12/2/2013 **Project End Date:** 3/7/2014

B. *Project Milestones*

Major Milestones	Start Date	Finish Date
Acquire vendor services	12/02/13	12/02/13
Order and receive required cabling and connectors	12/04/13	01/06/14
Replace non-compliant cables	01/07/14	02/25/14
Project Acceptance/Sign Off	03/03/14	03/07/14

VI. Roles and Responsibilities

A. Project Roles and Responsibilities

Agency Director: Brian C. McNeil, ADOA Director

Chief Information Officer: Aaron V. Sandeen, ADOA Deputy Director, State CIO

Project Sponsor: Donald L. Hennington, Assistant Director, Chief Operating Officer, ADOA-ASET

Project Manager (PM): Ken Roundtree, Project Manager, ADOA-ASET

Technical PM: Kevin A. Lawler, Distributed Systems Group Manager, ADOA-ASET

Technical Support: Luke Davis, Paul Willcox, Mikol Aspinwall, ADOA-ASET

B. Project Manager Certification

- Project Management Professional (PMP) Certified
- State of Arizona Certified
- Project Management Certification not required

C. Full-Time Employee (FTE) Project Hours

Total Full-Time Employee Hours	300
Total Full-Time Employee Cost	\$

VII. Risk Matrix, Areas of Impact, Itemized List, PIJ Financials

VIII. Project Approvals

A. Agency CIO Review*

Key Management Information	Yes	No
1. Is this project for a mission-critical application system?	X	
2. Is this project referenced in your agency's Strategic IT Plan?	X	
3. Is this project in compliance with all agency and State standards and policies for network, security, platform, software/application, and/or data/information as defined in http://aset.azdoa.gov/security/policies-standards-and-procedures , and applicable to this project? If NO , explain in detail in the "XI. Additional Information" section below.	X	
4. Will this project transmit, store, or process sensitive, confidential or Personally Identifiable Information (PII) data? If YES , in the "XI. Additional Information" section below, describe what security controls are being put in place to protect the data.		X
5. Is this project in compliance with the Arizona Revised Statutes (A.R.S.) and GRRC rules?	X	
6. Is this project in compliance with the statewide policy regarding the accessibility to equipment and information technology for citizens with disabilities?	X	

B. Project Values*

The following table should be populated with summary information from other sections of the PIJ.

Description	Section	Number or Cost
Assessment Cost (if applicable for Pre-PIJ)	II. PIJ Type - Pre-PIJ Assessment Cost	\$
Total Development Cost	VII. PIJ Financials tab	\$175,000
Total Project Cost	VII. PIJ Financials tab	\$175,000
FTE Hours	VI. Roles and Responsibilities	300

C. Agency Approvals*

Contact	Printed Name	Signature	Email and Phone
Project Manager:	Ken Roundtree		
Agency Information Security Officer:	Mike Lettman		
Agency CIO:	Aaron V. Sandeen		
Project Sponsor:	Don Hennington		

Agency Director:	Brian C. McNeil	
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IX. Optional Attachments

A. *Vendor Quotes*

X. Glossary

XI. Additional Information

Links:

[ADOA-ASET Website](#)

[ADOA-ASET Project Investment Justification Information Templates and Contacts](#)

Email Addresses:

[Strategic Oversight](#)

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