•	DE150	07 - DES Data Center Department of			ementation		
IJ ID:	DE15007	Project Start Date:	5/5/2015		Project End Date:	4/1/2016	
gency Contact:	Kim Hartleroad	Phone:	602-774-8848		Email:	khartleroad@azde	es.gov
roject Manager:	Robert Mayer	Phone:	602-771-2195	,, , , , , , , , , , , , , , , ,	Email:	Rmayer@azdes.g	ov
		Project Change	e Request (A	mendment)			
ate Submitted:	11/16/2015	Prepared by:	·····	Robert Mayer			
ffected Areas: (Check all that ap	ply) Pr	oject End Date 🔽	Develop	ment Cost 🗹		Project Scope	
OTE: The appropriate revised pa	ages from the Project	Investment Justification (P	IJ) document MUS				
Start Date End Date	Cecorolec Dates/C	oSIS Total Cost	Start Date	End Date	tee Revisions of D		Total Cost
05/05/15 04/01/16	\$ 5,112,138	\$ 7,619,823		06/30/16	\$9,134,81	17 \$	. 11,198,
Hardware License & Maintenance Fees: Prof & Outside Services: Software: Other (Contingency funds used to pay for needed Items required for development ) Totals	AS IŠ New T \$2,550,477 \$3,36 \$0.00 \$181, \$2,037,801 \$3,75 \$523,859.00 \$1,42 \$0.00 \$0.00 \$0.00 \$408, \$5,112,137 \$9,13	2,560 274 6,766 6,054	Increase Amount (dev +\$812,084 +\$181,274 +\$1,718,965 +\$902,195 \$408,163 +\$4,022,680	)			
That total current cost of the Data Ce \$5,112,138. DES is now asking for an <u>Milestones (AS IS)</u> (Dates not relevan TO01 Acquire, install, perform initial co TO02 Acquire, install, perform initial co	increase to PIJ DE15007 of t with approval of CR) configuration of UCS server	f \$4,022,680. This brings the tot Estimated Start s 06/12/15 rage 06/12/15	Actual Start Est 05/05/15 05/06/15	m PIJ 1, DE15001 c ect to \$12,100,000 imated Finish Ac 07/07/15 07/07/15 07/27/15	• napang multura ta	s (Al 64) (chéadealachtainteacht a thugan thise phasasanagas pa Steisel ei te Thail (chéadealachtainteachtainteachtainteachtainteachtainteachtainteachtainteachtainteachtaintea Steisel e te Thail (chéadealachtainteachtainteachtainteachtainteachtainteachtainteachtainteachtainteachtainteac	DE15007 of

## DE15007 - DES Data Center Relocation - Compute Implementation Department of Economic Security (DES)

	Estimated Start	Actual Start	Estimated Finish	Actual Finish	% Complete
T001 Migration: Equipment Relocation Services Milestone One	10/02/15	10/2/15	10/30/15		
T002 Migration: Equipment Relocation Services Milestone Two	01/01/16		01/31/15		
T003 Migration: Equipment Relocation Services Milestone Three	02/01/16		03/27/16		
T004 Migration: Equipment Relocation Services Milestone Four	06/3/16		06/30/16		
T005 Migration: Migration Playbook (CenturyLink Project documents) Milestone One	08/19/15	08/19/15	10/22/15		64
T006 Migration: Migration Playbook Milestone Two	08/19/15	08/19/15	10/30/15		32
T007 Migration: Migration Playbook Milestone Three	09/10/15	09/10/15	11/19/15	-	2
T008 Migration: Data Center Relocation Transition Services T&M*	12/9/15		06/30/16		
(* This milestones migration of Virtual servers to the new Data Center)					

### Business Justification Summary

The DCR project budget was originally conceived at the end of 2013. After further refinement it was broken into a planning phase, networking phase, and migration phase.

The first phase is complete on PIJ DE15001. The second phase scope is complete as it relates to the networking infrastructure needed to support the migration. The second phase PIJ15003 will close once the final payments are made on some outstanding POs. This should happen within a month or so. The last phase under PIJ15007 is currently underway and projected to go over budget. This is primarily due to expenditures relating to Professional Services (Gartner, CenturyLink), hardware (Virtual Tape Library), and software licensing. As the number of individual line items have changed, the scope has not. Now that we have progressed along the plan and elaborated on the details we feel we have documented the remaining money needed to finish the project. Gartner as our IV&V has also shown favorable reviews on our current approach. The target end date of the project is June 30th of 2016. The additional funding needed to finish the project is available within DES due to our ability to leverage federal funding because of waivers of depreciation we have been given. No additional funding is being requested at this time from outside of DES.Summary of changes is listed below.

The plus sign (+) by any listed item shows what was added that was necessary for the data center migration but was not originally listed in the DE15007 PIJ or came in higher than earlier estimated. A minus sign (-) shows an item that was in the original PIJ but is deemed not necessary for the project due to a deeper discovery effort on the part of the new project manager.

#### Hardware

+Citrix Netscaler Equipment +Cisco Switches +Cisco UCS (CPU) +NetApp (hard drive storage) +EMC VTL (Virtual Tape Library) License & Maint Fees -VMware +EMC (License and maintenance for the Virtual Tape Library)

#### Prof & Outside Services

+Gartner - 3rd party review +CenturyLink -VMware -cStor (flex pod related duties) -Did not purchase Business and Decisions

#### Software

+VMware +TIBCO Mainframe file transfer control center and internet gateway 4A18 +McAfee software/support

# DE15007 - DES Data Center Relocation - Compute Implementation Department of Economic Security (DES)

### List Known Dependencies/Risks/Constraints

Target state compute and storage design and build is being performed by two 3rd parties.

JPMorgan and Production Exchange will be live at the PH1 Data Center site while the network build continues until November 20th, 2015.

DES has experienced considerable personnel losses, placing schedule and steady state operations at risk.

Design and order is required to proceed with mainframe colocation build. We must first design a space that we could then order from CenturyLink. The risk is if we do not have an approved design we cannot make the order, and we are not by the contract guaranteed space at IO. The longer it takes to get the mainframe space under contract the more risky the project becomes.

The 1720 Data Center has multiple single points of failure. If any one of these were to occur there is no guarantee that operations can continue. Catastrophic loss of data and uptime is likely.

The Data Center Relocation Project (DCR) will be considered a success when all production applications have been successfully migrated to the new data center such that, should all contact with the current data center located at 1720 Madison, Phoenix data center be lost, all DES business operations would continue uninterrupted. All remaining equipment or connectivity assumed not required to support DES business operations is out of scope for the DCR project and will be reconciled in a subsequent project focused on addressing the 1720 facility clean up.

Submitted by (Printed Name )	Chief Information 0	Officer (Printed Name & )	Signature)	
Robert Mayer	Stephen Welsh	(lat	net-	
Attach CIO signature for Cost changes. Email from CIO acceptable for other change	ges. Complete all ir	formation above this line	e.	

	(For ASET Use Only)	
Reviewed by:	Review Date:	
Approved by:	Approved Date:	
Comments:		