AHFC Information Systems Server Upgrades	**FY2006 Request:**	**$335,200**
	Reference No:	**40066**

AP/AL: Appropriation **Project Type:** Information Systems
Category: Housing/Social Services
Location: Statewide **Contact:** Les Campbell
House District: Statewide (HD 1-40) **Contact Phone:** (907)330-8356
Estimated Project Dates: 07/01/2005 - 06/30/2010

Brief Summary and Statement of Need:
This project utilizes Corporate (AHFC) funds to replace or upgrade server systems that are at or near the end of their life cycle. It will provide additional capacity for normal system growth, additional applications, and improved disaster recovery capabilities. This project will reduce annual maintenance costs and improve overall server performance.

Funding:	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
AHFC Div	$335,200						$335,200
Total:	$335,200	$0	$0	$0	$0	$0	$335,200

☐ State Match Required	☐ One-Time Project	☐ Phased - new	☐ Phased - underway	☐ On-Going
0% = Minimum State Match % Required		☐ Amendment	☐ Mental Health Bill	

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:
New Project.

Project Description/Justification:
The purpose of this project is to replace or upgrade server systems that are at or near the end of their life cycle.

The projected outcomes are to:
? Replace systems/models that are at or near the end of their life cycles;
? Provide additional capacity for normal system growth;
? Improve disaster recovery capabilities;
? Reduce maintenance costs;
? Improve application performance;
? Improve overall sever performance levels.

Program Description:
This project is part of AHFC's ongoing effort to improve the server infrastructure to replace or upgrade server systems that are at or near the end of their life cycle. It will provide additional capacity for normal system growth, additional applications, and improve disaster recovery capabilities. This project will reduce annual maintenance costs and improve overall server performance. The pSeries system involves replacing two Unix-based IBM computer systems, one used for production work and one used as disaster recovery and business continuity (DR/BC) platform. The iSeries system involves upgrading the production/development system and replacing the backup system.

Primary pSeries system: Production
The primary (production) server is now 8 years and two generations old, and no longer performs adequately for AHFC's current business needs. Further expansion of business and the requisite addition of new and upgraded software will

create additional loads the current system cannot carry. Upgrades to hardware this old are both expensive and impractical; maintenance costs increase as parts fail due to age and wear, and future releases of critical operating system software will not support hardware of this vintage. Additionally, with the release of their latest generation of server hardware it is expected that IBM will formally drop support for systems of this generation in the near future. This will result in even higher maintenance costs and reduced spares availability.

Secondary pSeries system: Disaster Recovery/Business Continuity (DR/BC)
The secondary system currently in place as the DR/BC platform is approaching 4 years old, and is already one generation behind the current standard. It is not adequate to support a full user load in the event of the loss of the production machine in the current environment; replacing the primary server without replacing the DR/BC system will further exacerbate the situation. Replacement of this system will result in parity between the two servers, allowing for full performance and much lower impact on business in the event of the loss of the primary system. It will also allow for simplified and less expensive maintenance, as both systems will use the same software and spares.

Therefore, both systems must be replaced at the same time.

The scope of this project is only to procure the equipment needed to replace the current servers and have said equipment installed. The installation will be performed by the vendor and/or members of the IS staff. No outsourcing costs of any kind are contemplated at the present time for installation.

The disposition of the replaced systems will be determined when the project is completed. If the decision is made to sell these systems, the funds received will be used to offset part of the cost of this project. The actual cost of this project will be determined by vendor prices, discounts, and any special promotions being offered at the time we place the order. The fair market value of any equipment disposed of will be determined at the time of disposal.

Primary iSeries system: Production/Development
The previous upgrade was to position the Corporation for server consolidation and to keep close to current technology levels. At that time there was no consideration given to opening the iSeries systems up to the internet. AHFC has moved toward internet access and faces the need for additional processor resources now and in the future. In addition, some major parts of the current system will no longer be supported by IBM after the current release of the operating system. To upgrade the current system within its same model line we would have to add additional interactive processor power and replace one of the main expansion towers and its components. To do so would cost between $106,025.00 and $188,525.00. The older model system that is now in place will not be marketed after 2004 and will no longer be upgradeable beyond 2005. To upgrade to the new I5 system the cost would be $141,000.00. This system would then be at the latest levels of technology and would more than double the processing power, and would eliminate the concern of the very expensive interactive processing power levels.

Secondary iSeries system: Backup
The current model has not been marketed since 2001 nor has it been upgradeable since 2002. This system will no longer be supported by IBM after the current release of the operating system. This system needs to be kept close to the same technology levels as our primary system. Therefore, this system needs to be replaced.