



03.10.15

To: Selvi Stanislaus

From: Jeanne Harriman

**Subject: Request for Approval – Facility Action Items**

## Memorandum

This memorandum provides information for your notification to the Board pursuant to the Board's resolution requiring approval for Facility Action Items. FTB is requesting approval to proceed with two DGS Customer Requests Upgraded Information Sharing Environment (CRUISE) requests as follows:

### **FTB Central Office Data Center Modernization and Equipment Refresh**

FTB hosts a Data Center, which contains FTB's mission critical infrastructure and systems that provide the backbone for FTB's revenue-generating capabilities. This includes the computer equipment (network, mainframe, servers and data storage systems) that supports FTB's internal and public facing services. FTB's data center's electrical distribution system is 16 years old and some of the computer room air handlers are 26 years old. As a result, Data Center equipment failures are more frequent, replacement parts are increasingly harder to find, and associated maintenance costs have increased.

The Data Center Facilities Unit is requesting the Board's approval to: 1) Approach DGS for design services and fee proposal to develop plans to modernize FTB's data center to include interior & exterior power, lighting, fire suppression, chilled water cooling, environmental controls and energy efficiency monitoring, and 2) Subsequently implement the modernization alternatives as approved by the Fire Marshall drawings.

### **FTB Intermediate Distribution Frame (IDF) Closets Power Modernization Study**

The Network Engineering Section and Facilities Management are requesting the Board's approval to request DGS design and engineering services to evaluate the feasibility of tying the critical infrastructure within the Sacramento and San Diego building Intermediate Distribution Frames (IDFs) to the existing data center uninterruptible power supply (UPS) systems. This study will include considering the alternatives of adding separate centralized UPS systems to each of the buildings or stand-alone UPS solutions. FTB's existing field office IDF closets will also be assessed for opportunities to improve reliability and power capacities as needed.

The effort will entail an evaluation of the current power capacity and operating voltage supporting the individual closets; determine the impact on the data center's current and future load capacity, and increase such capacity if needed. Board approval is sought to proceed with a fee proposal, obtain construction cost estimates, and implement the alternative of choice.

CFO

Finance and Executive Services Division