

**MEMORANDUM**

*District of Columbia
Bladensburg*
Bowie
College Park
Frederick
Frederick County
Gaithersburg
Greenbelt
Montgomery County
Prince George's County
Rockville
Takoma Park
Alexandria
Arlington County
Fairfax
Fairfax County
Falls Church
Loudoun County
Manassas
Manassas Park
Prince William County*

Date: March 26, 2008
To: Dave Robertson, Executive Director
From: George Danilovics, Chief Technology Officer
Subject: COG Datacenter Renovations

The HVAC and power distribution and battery backup systems in the COG data center are approaching 20 years old. The equipment is now past their average life expectancy. Some components have already failed resulting in data center outages and costly repairs. I have thoroughly researched industry standard vendors that provide cooling and power equipment to meet the needs of our data center for the next 15-20 years. Competitive quotes were received from different vendors and resellers. This recommendation is based on best practice frameworks for data center configurations and will also make the data center more energy efficient.

For fiscal year 2008, I am requesting \$125,000 from the capital and contingency reserve. With Board approval, I am proposing that COG enter into a contract with Boland to replace our two existing air conditioning units with two high efficiency Liebert Sysem3 air conditioning units. COG has an existing relationship with Boland who has provided excellent service to our current HVAC system.

For fiscal year 2009, I am requesting \$277,000 from the capital and contingency reserve. This will permit replacing the power distribution and battery backup systems during the fall and winter of 2008. This quote includes replacing the raised floor in the data center which also is approaching twenty years in age and is becoming a safety hazard for anyone entering the data center. I am proposing that, with the Board's authorization, COG enter into a contract with American Power Conversion Corporation and reseller PC Mall to install the industry standard APC InfraStruXure power distribution and battery backup system. APC will also replace the floor tiles and arrange vents to provide desired cooling to equipment.

Investments in both the HVAC and power distribution units will help protect COG's investment of over \$1 million in equipment and software in the data center. As you know, COG's data center has been selected to serve as a host of equipment for multiple regional projects including RICCS, Data Exchange Hub, and Tandberg videoconferencing infrastructure that will be used in the event of a regional emergency. The proposed investment will allow us to continue to provide reliable computing facilities to COG staff and our participating jurisdictions.

Sincerely,

George Danilovics
Chief Technology Officer

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