

# EOB & JC Emergency Power System Upgrade -- No. 500706

Category  
Subcategory  
Administering Agency  
Planning Area

General Government  
County Offices and Other Improvements  
General Services  
Rockville

Date Last Modified  
Required Adequate Public Facility  
Relocation Impact  
Status

May 08, 2009  
No  
None.  
Preliminary Design Stage

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	503	204	299	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	1,948	0	0	1,948	1,948	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2,451</b>	<b>204</b>	<b>299</b>	<b>1,948</b>	<b>1,948</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000)

Current Revenue: General	511	204	299	8	8	0	0	0	0	0	0
G.O. Bonds	1,940	0	0	1,940	1,940	0	0	0	0	0	0
<b>Total</b>	<b>2,451</b>	<b>204</b>	<b>299</b>	<b>1,948</b>	<b>1,948</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DESCRIPTION**

This project would replace the existing aging emergency generators at the Executive Office Building and the Judicial Center Building. The two new generators will be sized to handle the critical loads plus a 20 percent spare capacity for future needs. The project includes the rental of a temporary emergency generator until the new generator is installed on each building.

**JUSTIFICATION**

This project will replace the existing 600KW, 480-volt, diesel engine emergency generators with 650/700KW, 480 volt, diesel engine driven emergency generators with automatic transfer switch to be located in the existing generator room. The units will be diesel engine driven equipment and include automatic transfer switching for legally required standby and optional standby distribution systems in each building. The new emergency power will include egress lighting in corridors and stairwells, exit signs, fire alarm system, security systems, communication systems, HVAC equipment, elevator safety systems, computer room and DDC building control systems. With the replacement of the existing generators, the safety and security of the building would be greatly improved as emergency lighting, security systems and other critical systems could operate a full 24 hours after a power loss. Branch circuit loads will be redistributed to normal and new emergency panels to meet the current National Electric Code standards and NFPA 101 Life-Safety codes.

Neither facility is sized to meet operational needs during a long term power outage. Careful evaluation resulted in the determination that both facilities are in need of upgrading the operation size of their current generator systems. This project allows facilities to continuously function at a normal power level during long-term power outages.

**FISCAL NOTE**

Replace FY09 current revenue funding with GO Bonds.

APPROPRIATION AND EXPENDITURE DATA		
Date First Appropriation	FY07	(\$000)
First Cost Estimate	FY07	2,161
Current Scope		2,451
Last FY's Cost Estimate		2,451
Appropriation Request	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		2,451
Expenditures / Encumbrances		296
Unencumbered Balance		2,155
Partial Closeout Thru	FY07	0
New Partial Closeout	FY08	0
Total Partial Closeout		0

**COORDINATION**  
 Department of General Services  
 Circuit Court  
 Sheriff's Office  
 Department of Permitting Services  
 Agencies in the Executive and Judicial Center Buildings

