

A. Identification and Coding Information

1. Project Number: 033807 Agency Number: W-172.05 Update Code: Change

2. Date: October 1, 2007 Revised: _____

3. Project Name: Patuxent WFP Phase II Expansion 5. Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Bi-County

7. Pre PDF Pg.No.: _____ 8. Req. Adeq. Pub. Fac. _____

E. Annual Operating Budget Impact (000's) FY of Impact

Program Costs	Staff	
	Other	
Facility Costs	Maintenance	
	Debt Service	1158	12
Total Costs		1158	12
Impact on Water or Sewer Rate		2¢	12

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '07	(10) Estimate FY '08	(11) Total 6 Years	(12) Year 1 FY '09	(13) Year 2 FY '10	(14) Year 3 FY '11	(15) Year 4 FY '12	(16) Year 5 FY '13	(17) Year 6 FY '14	(18) Beyond 6 Years
Planning, Design & Supervision	3,760	2,131	800	829	500	250	79				
Land											
Site Improvements & Utilities											
Construction	23,816			23,816	11,750	11,050	1,016				
Other	2,545		80	2,465	1,225	1,130	110				
Total	30,121	2,131	880	27,110	13,475	12,430	1,205				

C. Funding Schedule (000's)

WSSC Bonds	30,121	2,131	880	27,110	13,475	12,430	1,205				
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F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	33,002
Cost Estimate Last FY	28,967
Present Cost Estimate	30,121
Approved Request, Last FY	11,605
Total Expenditures & Encumbrances	2,131
Approval Request FY 09	13,475
Supplemental Approval Request Current FY (08)	

D. Description & Justification

DESCRIPTION

This project provides for the addition of a sixth treatment train, a new electrical substation, upgrades to existing yard piping, upgrades to chemical facilities and new UV disinfection facilities to the Patuxent WFP, along with an upgrade to the existing potassium permanganate feed system at the Patuxent Pretreatment Facility and upgrades to the existing sewer system at Sweitzer Lane to handle residuals from the plant.

Service Area Bi-County Area **Capacity** 72 MGD nominal/110 MGD emergency

JUSTIFICATION

Plans & Studies
Patuxent WFP Facility Plan (April, 1997); In-House Study (April, 2002); Patuxent Expansion Design Criteria Report (April 2005)

Specific Data
Phase II will add a sixth treatment train consisting of a three stage flocculation chamber, sedimentation basin with chain and flight solids removal and plate settlers, disinfectant contact chamber, and two deep bed granular carbon filters. A fourth raw water pipeline from Rocky Gorge Raw Water Pipeline (W-172.07) and the modification and expansion of the Rocky Gorge Water Pumping Station (W-172.08) will provide a firm raw water pumping/transmission capacity of 110 MGD. These improvements will give the plant a firm nominal capacity of 72 MGD, with emergency capacity of 110 MGD. New UV disinfection facilities are being added to the plant in order to comply with upcoming EPA regulations for Cryptosporidium treatment and Stage 2 Disinfection Byproducts Rule.

Cost Change
Costs were increased for inflation.

STATUS Preliminary Design (WSSC Contract No. BF1582H91,).

OTHER
The project scope has remained the same. Expenditure estimates shown above are preliminary design estimates and may change as the detailed design progresses. In the event of an outage at the Potomac WFP, additional capacity at the Patuxent WFP will reduce customer impact. However, emergency conservation measures will still be required. WSSC will seek federal funding for this project.

COORDINATION
Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Baltimore Gas & Electric and WSSC Projects W-172.07, Patuxent Raw Water Pipeline, W-172.08, Rocky Gorge Pump Station Upgrade and W-73.18, Power Reliability Study(Coordination of UV Criteria).

NOTE This project supports 28% System Improvement and 72% Environmental Regulation.

G. Status Information

Land Status: No land or R/W required

% Project Completion: D-60%

Est. Completion Date: FY 2011

H. Map Map Reference Code:

MAP NOT AVAILABLE

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