

A. Identification and Coding Information

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

2. Date: October 1, 2009

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

Revised:

5. Agency: **WSSC**

3. Project Name: Patuxent WFP Phase II Expansion

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

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '09	(10) Estimate FY '10	(11) Total 6 Years	(12) Year 1 FY '11	(13) Year 2 FY '12	(14) Year 3 FY '13	(15) Year 4 FY '14	(16) Year 5 FY '15	(17) Year 6 FY '16	(18) Beyond 6 Years
Planning, Design & Supervision	4,658	2,433	800	1,425	527	567	331				
Land											
Site Improvements & Utilities											
Construction	25,266			25,266	6,803	11,661	6,802				
Other	2,749		80	2,669	733	1,223	713				
Total	32,673	2,433	880	29,360	8,063	13,451	7,846				

C. Funding Schedule (000's)

WSSC Bonds	32,673	2,433	880	29,360	8,063	13,451	7,846				
------------	--------	-------	-----	--------	-------	--------	-------	--	--	--	--

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. 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. Expenditure estimates shown above are preliminary design estimates and may change as the design progresses.

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 and Arc Flash Studies(Coordination of UV Criteria).

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

E. Annual Operating Budget Impact (000's)

FY of Impact

Program Costs	Staff	
	Other	
Facility Costs	Maintenance		
	Debt Service	2774	13
Total Costs		2774	13
Impact on Water or Sewer Rate.....		5¢	13

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	31,813
Present Cost Estimate	32,673
Approved Request, Last FY	770
Total Expenditures & Encumbrances	2,433
Approval Request FY 11	8,063
Supplemental Approval Request Current FY (10)	

G. Status Information

Land Status: No land or R/W required
 % Project Completion: D-60%
 Est. Completion Date: FY 2013

H. Map Map Reference Code:

MAP NOT AVAILABLE

22-43