

**A. Identification and Coding Information**

1. Project Number: 033811    Agency Number: W-73.16    Update Code: Change

2. Date: October 1, 2011    Revised:    7. Pre PDF Pg.No.:    8. Req. Adeq. Pub. Fac.

3. Project Name: Potomac WFP Improvements    5. Agency: **WSSC**

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

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

Program Costs	Staff .....	.....	
	Other .....	.....	
Facility Costs	Maintenance .....	7886	14
	Debt Service .....		
Total Costs.....		7886	14
Impact on Water or Sewer Rate.....		16¢	14

**B. Expenditure Schedule (000's)**

Cost Elements	(8) Total	(9) Thru FY '11	(10) Estimate FY '12	(11) Total 6 Years	(12) Year 1 FY '13	(13) Year 2 FY '14	(14) Year 3 FY '15	(15) Year 4 FY '16	(16) Year 5 FY '17	(17) Year 6 FY '18	(18) Beyond 6 Years
Planning, Design & Supervision	26,767	26,742	20	5	5						
Land											
Site Improvements & Utilities											
Construction	103,616	100,420	3,000	196	196						
Other	322		302	20	20						
<b>Total</b>	<b>130,705</b>	<b>127,162</b>	<b>3,322</b>	<b>221</b>	<b>221</b>						

**F. Approval and Expenditure Data (000's)**

Date First in Capital Program	FY 04
Date First Approved	FY 03
Initial Cost Estimate	70,247
Cost Estimate Last FY	130,812
Present Cost Estimate	130,705
Approved Request, Last FY	5,938
Total Expenditures & Encumbrances	127,162
Approval Request FY 13	221
Supplemental Approval Request Current FY (12)	

**C. Funding Schedule (000's)**

	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
WSSC Bonds	90,434	87,990	2,292	152	152						
SDC	40,271	39,172	1,030	69	69						

**D. Description & Justification**

**DESCRIPTION**

2143 This project provides for improvements to the Potomac WFP in accordance with the program management plan. Design and construction of rapid mix/flow splitting modifications, pumping station and ultraviolet disinfection facilities, replacement of MCC No. 1, a new backwash pumping station, and new lime feed facilities were packaged as one contract using the CM-at-Risk project delivery method. Outdoor Substation Nos. 1 and 4 were completed under a separate contract in order to expedite replacement of the 5 kV switchgear in the Finished Water Pumping Station. The project will also address rehabilitation of the filter underdrains.

**Service Area** Bi-County Area

**JUSTIFICATION**

**Plans & Studies**  
WSSC Memorandum by Timothy D. Hirrel, April 25, 2001; "Technical Memorandum No. 2," O'Brien & Gere Engineers, Inc. (November, 2001); "Potomac WFP Facility Plan," O'Brien & Gere Engineers, Inc. (September, 2002); Potomac WFP Improvements Design Development Report (August, 2003); "Potomac WFP Improvements Design Criteria Report," Post, Buckley, Schuh & Jemigan, Inc. (January, 2004); 5 kV Switchgear Improvements Design Development Report (January, 2004).

**Specific Data**  
These projects are part of the program of improvements needed to reliably produce 273 MGD in the summer and 218 MGD in the winter in order to meet projections for the year 2030. Improvements to the flocculation and sedimentation processes may be needed in the future to increase the total plant capacity to meet projected demands.

**Cost Change**  
Not applicable.

**STATUS** Structurally Complete (WSSC Contract Nos. BF2028D97 , BF2028H97).

**OTHER**  
The project scope has remained the same. Substantial completion was issued in August 2010. Rehabilitation of filter underdrains was completed in FY 2011. Funding shown in FY 2012 and FY 2013 is for final "punch-list" items, site restoration, and retainage.

**COORDINATION**  
Montgomery County Government, Prince George's County Government, Montgomery County Department of Environmental Protection, Maryland Department of the Environment, Maryland Department of Natural Resources, Prince George's County Department of Environmental Resources and WSSC Project W-172.05, Patuxent WFP Phase II Expansion(coordination of UV criteria).

**NOTE** This project supports 31% Growth, 49% System Improvement and 20% Environmental Regulation.

**G. Status Information**

Land Status: Not applicable  
% Project Completion: C-100%  
Est. Completion Date: See Block D "Other"

**H. Map    Map Reference Code:**

MAP NOT AVAILABLE