U.S. Hydropower Resource Assessment for Maryland

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ABSTRACT

The U.S. Department of Energy is developing an estimate of the undeveloped hydropower potential in the United States. The Hydropower Evaluation Software (HES) is a computer model that was developed by the Idaho National Engineering Laboratory^a for this purpose. HES measures the undeveloped hydropower resources available in the United States, using uniform criteria for measurement. The software was developed and tested using hydropower information and data provided by the Southwestern Power Administration. It is a menu-driven program that allows the personal computer user to assign environmental attributes to potential hydropower sites, calculate development suitability factors for each site based on the environmental attributes present, and generate reports based on these suitability factors. This report describes the resource assessment results for the State of Maryland.

a. In January 1997, the name of the Idaho National Engineering Laboratory (INEL) was changed to the Idaho National Engineering and Environmental Laboratory (INEEL). INEEL will be used throughout the text of the document, except where the use of INEL is historically important.

ACKNOWLEDGMENTS

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INTRODUCTION

In June 1989, the U.S. Department of Energy initiated the development of a National Energy Strategy to identify the energy resources available to support the expanding demand for energy in the United States. Public hearings conducted as part of the strategy development process indicated that undeveloped hydropower resources were not well defined. As a result, the Department of Energy established an inter-agency Hydropower Resource Assessment Team to ascertain the undeveloped hydropower potential. In connection with these efforts by the Department of Energy, the Idaho National Engineering Laboratory designed the Hydropower Evaluation Software (HES), which has been used to perform a resource assessment of the undeveloped conventional hydropower potential in over 30 states. This report presents the results of the hydropower resource assessment for the State of Maryland. Undeveloped pumped storage hydropower potential is not included.

The HES was developed as a tool to measure undeveloped hydropower potential regionally or by state. The software is not intended to provide precise development factors for individual sites, but to provide regional or state totals. Because the software was developed as a generic measurement tool encompassing national issues, regional and state totals must be considered judiciously; various local issues may skew undeveloped hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydroelectric Power Resources Assessment database and several other sources. Refer to DOE/ID-10338, the *User's Manual* (Francfort, Matthews, Rinehart 1991) for the specifics of the software and to DOE/ID-10430.1, the *Status Report* (Conner, Francfort, Rinehart 1996) for an overview of all resource assessment activities to date.

Model Development

Hydropower Evaluation Software, both a probability-factor computer model and a database, is a menu-driven program that is intended to be user-friendly. Computer screens and report-generation capabilities were developed to meet the needs of users nationwide. The software uses environmental attribute data to generate an overall project environmental suitability factor (PESF) between 0.1 and 0.9, where 0.9 indicates the highest likelihood of development and 0.1 indicates the lowest likelihood of development. The suitability factors depend on the unique environmental attributes of each potential site. They reflect the considerations that (a) environmental concerns can make a potential site unacceptable, prohibiting its development (for a suitability factor of 0.1), or (b) if there are no environmental concerns, there is no negative effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes can result in a lower suitability factor because multiple environmental considerations would reduce the likelihood that a site may be developed to its physical potential.

Model Goal

The goal of the HES is to assemble an accurate resource database of all sites with undeveloped hydropower potential in the United States for use as a planning tool to determine the viable national hydropower potential. Undeveloped hydropower potential is not limited to the development of new sites; it also includes the development of additional hydropower-generating capacity at sites that currently have hydropower, but are not developed to their full potential. This undeveloped hydropower potential is a source of nonpolluting, renewable energy available to meet the growing power needs of the United States. The HES should help make this goal obtainable and ensure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications used are as follows:

W = Developed hydropower site with current power generation, but the total hydropower potential has not been fully developed. Only the undeveloped hydropower potential is discussed in this report.

W/O = Developed site without current power generation. The site has some type of developed impoundment or diversion structure, but no developed hydropower generating capability.

U = Undeveloped site. The site does not have power generation capability nor a developed impoundment or diversion structure.

ASSESSMENT RESULTS

Summary Results

A total of 36 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for

individual site capacities range from 2 kilowatts (kW) to 20 megawatts (MW). The majority (78%) of the sites in Maryland is less than 100 kW (Figure 1).

The nonmodeled undeveloped hydropower potential total for Maryland was identified as 229 MW. The HES results lowers this estimate about 87% to 29 MW. The greatest reduction in undeveloped hydropower potential, by MW, occurs at developed sites with current power generation capability (category W). These sites have a HES-modeled undeveloped hydropower potential of about 20 MW, a 176-MW reduction in the estimated undeveloped hydropower potential (Figure 2). Figure 3 correlates the number of sites that have undeveloped hydropower potential with the total megawatts of HES-modeled undeveloped hydropower potential.

The 36 identified sites are located within 9 major river basins. The number of sites per major river basin ranges from 1 in the Bush, Choptank, Gunpowder, Wicomico, and Youghiogheny river basins to 20 in the Potomac River Basin (Figure 4). Ninety-eight percent of the undeveloped hydropower potential in the State of Maryland is contained within the Potomac and Susquehanna River basins (Figure 5).

Table 1. Undeveloped hydropower potential summary for Maryland. The table contains the nonmodeled undeveloped nameplate potential and the HES-modeled undeveloped potential totals.

	Number of projects	Nameplate potential (MW)	HES-modeled potential (MW)
With Power	1	195.6	19.6
W/O Power	32	32.3	9.6
Undeveloped	3	1.0	0.1
State Total	36	228.9	29.3

Figure 1. Number of sites, by capacity groups, with HES-modeled undeveloped hydropower potential.

Figure 2. The nonmodeled and HES-modeled undeveloped hydropower potential.

Figure 3. The number of sites with undeveloped hydropower potential and the total megawatts of HES-modeled undeveloped hydropower potential.

Figure 4. Number of sites with undeveloped hydropower potential in the Maryland river basins.

Figure 5. Megawatts of HES-modeled undeveloped hydropower potential in the Maryland river basins.

Detailed Results

The appendices contain, in the form of HES-generated reports, detailed information about the undeveloped hydropower potential in Maryland. The appendices contain the following information:

Appendix A summarizes the undeveloped hydropower potential by dam status groups. The number of sites, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential is provided based on the dam status.

Appendix B provides the hydropower resource assessment by river basin, which includes the project number, project name, stream name, dam status, nonmodeled undeveloped hydropower potential, and the HES-modeled undeveloped hydropower potential for each site. Subtotals are provided for each river basin.

Appendix C lists the project numbers, plant name, stream name, if a site is Federally owned,

nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential. The sites are grouped by dam status.

Appendix D contains a resource database list for the 36 sites in Maryland. Information includes plant name, stream, state, county, river basin and owner names, project number, nameplate and HES-modeled undeveloped hydropower potential, the unit and plant types, dam status, latitude, longitude, and the environmental factors that the HES uses to determine the PESF.

OBTAINING INDIVIDUAL STATE INFORMATION

Additional copies of the hydropower resource assessment results for individual states are available and can be obtained by writing or calling the authors or the National Technical Information Service (NTIS).

Telephone Orders—(703) 487-4650. NTIS sales desk and customer services are available

between 8:30 a.m. and 5:00 p.m., Eastern Standard Time.

Fax—(703) 321-8547. Customers may fax their orders to NTIS. These orders may be charged to a NTIS deposit account, American Express, VISA, or MasterCard.

Mail Orders—Mail orders should be sent to National Technical Information Service, Document Sales, 5285 Port Royal Road, Springfield, VA 22161. Call the sales desk for prices before placing an order.

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delivered by first call mail. Call NTIS for information on rush order service for computer products.

For Help in Tracing an Order—Call (703) 487-4650 and request the customer service option.

ADDITIONAL HYDROPOWER EVALUATION SOFTWARE INFORMATION

Additional information concerning the HES can be obtained by contacting Ben Rinehart or Jim Francfort at the addresses provided below. Copies of the software and the User's Manual may also be obtained from these individuals.

Ben Rinehart, Project Manager
Idaho National Engineering and Environmental Laboratory
P.O. Box 1625, MS 3830
Idaho Falls, ID 83415-3830
(208) 526-1002

Jim Francfort
Idaho National Engineering and Environmental Laboratory
P.O. Box 1625, MS 3830
Idaho Falls, ID 83415-3830
(208) 526-6787

Information concerning the State of Maryland's involvement with the resource assessment or about the identified sites may be obtained by contacting:

Harald W. Van Aller, P.E.
Maryland Department of the Environment
Dam Safety Division
2500 Broening Highway
Baltimore, MD 21224
(800) 633-6101, ext. 3538

REFERENCES

- Conner, A. M., J. E. Francfort, and B. N. Rinehart, 1996, *Uniform Criteria for U.S. Hydropower Resource Assessment, Hydropower Evaluation Software Status Report-II*, DOE/ID 10430.1, Idaho National Engineering Laboratory, Idaho Falls, Idaho.
- Francfort, J. E., S. D. Matthews, and B. N. Rinehart, 1991, *Hydropower Evaluation Software User's Manual*, DOE/ID-10338, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Appendix A
Summary Report

DATE: 10/31/97

H Y D R O P O W E R C A P A C I T Y S U M M A R Y

<u>State</u>	<u>Category</u>	<u>Number of Projects</u>	<u>Name Plate Capacity (KW)</u>	<u>HES Adjusted Capacity (KW)</u>
MD	With Power	1	195600	19560
	W/O Power	32	32269	9617.30
	Undeveloped	3	959	95.90
	STATE TOTAL	36	228828	29273.20
TOTALS	With Power	1	195600	19560
	W/O Power	32	32269	9617.30
	Undeveloped	3	959	95.90
GRAND TOTAL		36	228828	29273.20

Appendix B

River Basins Report

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin BUSH RIVER BASIN					
08384	ATKISSON DAM WINTERS RUN,BUSH R	WO	176.00	0.50	88.00
** Subtotal **			176.00		88.00
** River Basin CHOPTANK RIVER BASIN					
MD025	TUCKAHOE STATE PARK TUCKAHOE CR,CHOPTANK R	WO	68.00	0.10	6.80
** Subtotal **			68.00		6.80
** River Basin GUNPOWDER RIVER BASIN					
MD020	PRETTYBOY GUNPOWDER R	WO	1790.00	0.10	179.00
** Subtotal **			1790.00		179.00
** River Basin PATAPSCO RIVER BASIN					
04380	UNION DAM/WJ DICKEY PATAPSCO R	U	600.00	0.10	60.00
07752	DANIELS PATAPSCO R	WO	250.00	0.10	25.00
MD002	BLOEDE PATAPSCO R	WO	404.00	0.10	40.40
MD023	SIMKINS PATAPSCO R	WO	235.00	0.10	23.50
MD013	LAKE ROLAND JONES FALLS,GUNPOWDER R	WO	84.00	0.10	8.40
** Subtotal **			1573.00		157.30
** River Basin PATUXENT RIVER BASIN					
06596	DUCKETT PATUXENT R	WO	125.00	0.50	62.50
MD007	FORT MEADE WS DAM L PATUXENT R	WO	79.00	0.50	39.50

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			204.00		102.00
** River Basin POTOMAC RIVER BASIN					
MD015	MICHAELS MILL DAM MONOCACY R	U	273.00	0.10	27.30
09697	SAVAGE RIVER DAM SAVAGE R	WO	2000.00	0.50	1000.00
11147	JENNINGS RANDOLPH N BR POTOMAC R	WO	13000.00	0.50	6500.00
09989	LITTLE FALLS POTOMAC R	WO	8000.00	0.10	800.00
MD017	OTTERDALE MILL BIG PIPE CR, MONOCACY R	WO	50.00	0.50	25.00
MD027	UPPER ROCK CREEK#5 ROCK CR, POTOMAC R	WO	18.00	0.10	1.80
MD026	UPPER ROCK CREEK#1 TRIB, N BR ROCK CR, POTOMAC R	WO	20.00	0.10	2.00
MD014	LITTLE SENECA L SENECA CR, POTOMAC R	WO	92.00	0.10	9.20
MD012	LAKE LINGANORE LINGANORE CR, MONOCACY RIVER	WO	320.00	0.10	32.00
MD019	PINEY RUN PINEY RUN, MONOCACY R	WO	43.00	0.10	4.30
MD024	STARNERS MONOCACY R	WO	151.00	0.50	75.50
MD005	DEVILS BACKBONE ANTIETAM CR, POTOMAC R	WO	117.00	0.10	11.70
MD022	SECURITY MILL ANTIETAM CR, POTOMAC R	WO	89.00	0.10	8.90
MD008	HAGERSTOWN POWER PLANT ANTIETAM CR, POTOMAC R	WO	117.00	0.10	11.70
MD018	R PAUL SMITH DAM POTOMAC R	WO	2802.00	0.10	280.20

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
MD011	KEMPS MILL CONOCHEAGUE CR	WO	375.00	0.50	187.50
MD021	ROCKY GAP ROCKY GAP RUN,N BR POTOMAC R	WO	71.00	0.10	7.10
MD009	INDUSTRIAL DAM N BR POTOMAC R	WO	1198.00	0.10	119.80
MD001	BIG PINEY RUN BIG PINEY RUN,N BR POTOMAC R	WO	20.00	0.50	10.00
MD028	WESTVACO DAM NORTH BRANCH POTOMAC RIVER	WO	347.00	0.10	34.70
** Subtotal **			29103.00		9148.70
** River Basin SUSQUEHANNA RIVER BASIN					
MD016	NOBLE MILL DEER CR,SUSQUEHANNA R	U	86.00	0.10	8.60
00405	CONOWINGO SUSQUEHANNA R	W	195600.00	0.10	19560.00
MD006	EDEN MILL DEER CR,SUSQUEHANNA R	WO	115.00	0.10	11.50
MD003	BROAD CREEK BROAD CR,SUSQUEHANNA R	WO	58.00	0.10	5.80
** Subtotal **			195859.00		19585.90
** River Basin WICOMICO RIVER BASIN					
MD010	JOHNSONS POND N PRONG WICOMICO R	WO	36.00	0.10	3.60
** Subtotal **			36.00		3.60
** River Basin YOUGHIOGHENY RIVER BASIN					
MD004	BROAD FORD DAM BROADFORD RUN,N BR POTOMAC R	WO	19.00	0.10	1.90
** Subtotal **			19.00		1.90
*** Total ***			228828.00		29273.20

Appendix C
Maryland Sites List

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 04380 UNION DAM/WJ DICKEY PATAPSCO R	MD	U	600.00	0.10	60.00
** Subtotal **			600.00		60.00
** FERC Number MD015 MICHAELS MILL DAM MONOCACY R	MD	U	273.00	0.10	27.30
** Subtotal **			273.00		27.30
** FERC Number MD016 NOBLE MILL DEER CR,SUSQUEHANNA R	MD	U	86.00	0.10	8.60
** Subtotal **			86.00		8.60
** FERC Number 00405 CONOWINGO SUSQUEHANNA R	MD	W	195600.00	0.10	19560.00
** Subtotal **			195600.00		19560.00
** FERC Number 06596 DUCKETT PATUXENT R	MD	WO	125.00	0.50	62.50
** Subtotal **			125.00		62.50
** FERC Number 07752 DANIELS PATAPSCO R	MD	WO	250.00	0.10	25.00
** Subtotal **			250.00		25.00
** FERC Number 08384 ATKISSON DAM WINTERS RUN,BUSH R	MD	WO	176.00	0.50	88.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			176.00		88.00
** FERC Number 09697 SAVAGE RIVER DAM SAVAGE R	MD	WO	2000.00	0.50	1000.00
** Subtotal **			2000.00		1000.00
** FERC Number 09989 LITTLE FALLS POTOMAC R	MD	WO	8000.00	0.10	800.00
** Subtotal **			8000.00		800.00
** FERC Number 11147 JENNINGS RANDOLPH N BR POTOMAC R	MD	WO	13000.00	0.50	6500.00
** Subtotal **			13000.00		6500.00
** FERC Number MD001 BIG PINEY RUN BIG PINEY RUN,N BR POTOMAC R	MD	WO	20.00	0.50	10.00
** Subtotal **			20.00		10.00
** FERC Number MD002 BLOEDE PATAPSCO R	MD	WO	404.00	0.10	40.40
** Subtotal **			404.00		40.40
** FERC Number MD003 BROAD CREEK BROAD CR,SUSQUEHANNA R	MD	WO	58.00	0.10	5.80
** Subtotal **			58.00		5.80

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number MD004 BROAD FORD DAM BROADFORD RUN,N BR POTOMAC R	MD	WO	19.00	0.10	1.90
** Subtotal **			19.00		1.90
** FERC Number MD005 DEVILS BACKBONE ANTIETAM CR,POTOMAC R	MD	WO	117.00	0.10	11.70
** Subtotal **			117.00		11.70
** FERC Number MD006 EDEN MILL DEER CR,SUSQUEHANNA R	MD	WO	115.00	0.10	11.50
** Subtotal **			115.00		11.50
** FERC Number MD007 FORT MEADE WS DAM L PATUXENT R	MD	WO	79.00	0.50	39.50
** Subtotal **			79.00		39.50
** FERC Number MD008 HAGERSTOWN POWER PLANT ANTIETAM CR,POTOMAC R	MD	WO	117.00	0.10	11.70
** Subtotal **			117.00		11.70
** FERC Number MD009 INDUSTRIAL DAM N BR POTOMAC R	MD	WO	1198.00	0.10	119.80
** Subtotal **			1198.00		119.80
** FERC Number MD010 JOHNSONS POND N PRONG WICOMICO R	MD	WO	36.00	0.10	3.60

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			36.00		3.60
** FERC Number MD011 KEMPS MILL CONOCHEAGUE CR	MD	WO	375.00	0.50	187.50
** Subtotal **			375.00		187.50
** FERC Number MD012 LAKE LINGANORE LINGANORE CR, MONOCACY RIVER	MD	WO	320.00	0.10	32.00
** Subtotal **			320.00		32.00
** FERC Number MD013 LAKE ROLAND JONES FALLS, GUNPOWDER R	MD	WO	84.00	0.10	8.40
** Subtotal **			84.00		8.40
** FERC Number MD014 LITTLE SENECA L SENECA CR, POTOMAC R	MD	WO	92.00	0.10	9.20
** Subtotal **			92.00		9.20
** FERC Number MD017 OTTERDALE MILL BIG PIPE CR, MONOCACY R	MD	WO	50.00	0.50	25.00
** Subtotal **			50.00		25.00
** FERC Number MD018 R PAUL SMITH DAM POTOMAC R	MD	WO	2802.00	0.10	280.20
** Subtotal **			2802.00		280.20

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number MD019					
PINEY RUN	MD	WO	43.00	0.10	4.30
PINEY RUN, MONOCACY R					
** Subtotal **			43.00		4.30
** FERC Number MD020					
PRETTYBOY	MD	WO	1790.00	0.10	179.00
GUNPOWDER R					
** Subtotal **			1790.00		179.00
** FERC Number MD021					
ROCKY GAP	MD	WO	71.00	0.10	7.10
ROCKY GAP RUN, N BR POTOMAC R					
** Subtotal **			71.00		7.10
** FERC Number MD022					
SECURITY MILL	MD	WO	89.00	0.10	8.90
ANTIETAM CR, POTOMAC R					
** Subtotal **			89.00		8.90
** FERC Number MD023					
SIMKINS	MD	WO	235.00	0.10	23.50
PATAPSCO R					
** Subtotal **			235.00		23.50
** FERC Number MD024					
STARNERS	MD	WO	151.00	0.50	75.50
MONOCACY R					
** Subtotal **			151.00		75.50
** FERC Number MD025					
TUCKAHOE STATE PARK	MD	WO	68.00	0.10	6.80
TUCKAHOE CR, CHOPTANK R					

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **		68.00		6.80
** FERC Number MD026 UPPER ROCK CREEK#1 TRIB,N BR ROCK CR,POTOMAC R	MD WO	20.00	0.10	2.00
** Subtotal **		20.00		2.00
** FERC Number MD027 UPPER ROCK CREEK#5 ROCK CR,POTOMAC R	MD WO	18.00	0.10	1.80
** Subtotal **		18.00		1.80
** FERC Number MD028 WESTVACO DAM NORTH BRANCH POTOMAC RIVER	MD WO	347.00	0.10	34.70
** Subtotal **		347.00		34.70
*** Total ***		228828.00		29273.20

Appendix D

Individual Resource Database List

RESOURCE DATABASE LISTING

DATE: 10/31/97

PAGE NO: 1

FERC Number	Plant Name	Stream	State Name
00405	CONOWINGO	SUSQUEHANNA R	MD

County Name	River Basin
HARFORD	SUSQUEHANNA RIVER BASIN

Class	Owner Name
P	PECO-SUSQUEHANNA ELECTRIC CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
195600.00	0.10	19560.00	637400.00	63740

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3939.00 7613.00
C	STG	MO	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife	Y	0.75
Cultural Value	Y	0.75	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
04380	UNION DAM/WJ DICKEY	PATAPSCO R	MD

County Name	River Basin
BALTIMORE	PATAPSCO RIVER BASIN

Class	Owner Name
R	MD DEPT OF NATURAL RESOURCES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
600.00	0.10	60.00	2100.00	210

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3927.00	Longitude	7655.00
C	ROR		U				

Factor		Exist	Prob	Factor		Exist	Prob
Wild/Scenic Protection			0.90	Wildlife Value			0.90
Wild/Scenic Tributary or Upstream/Downstream				Threatened/Endangered Fish			0.90
Wild/Scenic Location			0.90	Threatened/Endangered Wildlife			0.90
Cultural Value			0.90	Federal Land Code 103	Y		0.10
Fish Presence Value	Y		0.25	Federal Land Code 104			0.90
Geologic Value			0.90	Federal Land Code 105			0.90
Historic Value	Y		0.50	Federal Land Code 106			0.90
Other Value			0.90	Federal Land Code 107			0.90
Recreation Value	Y		0.25	Federal Land Code 108			0.90
Scenic Value	Y		0.50	Federal Land Code 198			0.90

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FERC Number	Plant Name	Stream	State Name
06596	DUCKETT	PATUXENT R	MD

County Name	River Basin
PRINCE GEORGES	PATUXENT RIVER BASIN

Class	Owner Name
R	WASHINGTON SUBURBAN SANITARY COMM

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
125.00	0.50	62.50	1090.00	545

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3907.00
C	STG	XX	WO	Longitude	7653.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
07752	DANIELS	PATAPSCO R	MD

County Name	River Basin
HOWARD	PATAPSCO RIVER BASIN

Class	Owner Name			
R	MD DEPT OF NATURAL RESOURCES			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
250.00	0.10	25.00	1000.00	100
Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	ROR	XX	WO	3929.00 7651.00

<u>Factor</u>	<u>Exist</u>	<u>Prob</u>	<u>Factor</u>	<u>Exist</u>	<u>Prob</u>
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
08384	ATKISSON DAM	WINTERS RUN,BUSH R	MD

County Name	River Basin
HARFORD	BUSH RIVER BASIN

Class	Owner Name
F	US ARMY ABERDEEN PROVING GRD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
176.00	0.50	88.00	1090.00	545

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3929.00 7620.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108	Y	0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
09697	SAVAGE RIVER DAM	SAVAGE R	MD

County Name	River Basin
GARRETT	POTOMAC RIVER BASIN

Class	Owner Name
R	UPPER POTOMAC RIVER COMMISSION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2000.00	0.50	1000.00	10000.00	5000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3930.00	Longitude	7908.00
C	STG	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
09989	LITTLE FALLS	POTOMAC R	MD

County Name	River Basin
MONTGOMERY	POTOMAC RIVER BASIN

Class	Owner Name
F	US ARMY CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8000.00	0.10	800.00	38000.00	3800

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3857.00 7706.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11147	JENNINGS RANDOLPH	N BR POTOMAC R	MD

County Name	River Basin
GARRETT	POTOMAC RIVER BASIN

Class	Owner Name
F	US ARMY CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
13000.00	0.50	6500.00	49500.00	24750

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3926.00 7907.00
C	STG	XX	WO		

<u>Factor</u>	<u>Exist</u>	<u>Prob</u>	<u>Factor</u>	<u>Exist</u>	<u>Prob</u>
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105	Y	0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
MD001	BIG PINEY RUN	BIG PINEY RUN,N BR POTOMAC R	MD

County Name	River Basin
GARRETT	POTOMAC RIVER BASIN

Class	Owner Name
M	FROSTBURG,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
20.00	0.50	10.00	82.00	41

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3942.00
C	RES	XX	WO	Longitude	7900.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD002	BLOEDE	PATAPSCO R	MD

County Name	River Basin
BALTIMORE	PATAPSCO RIVER BASIN

Class	Owner Name
M	MD DEPT OF NATURAL RESOURCES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
404.00	0.10	40.40	2062.00	206.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3915.00 7646.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD003	BROAD CREEK	BROAD CR,SUSQUEHANNA R	MD

County Name	River Basin
HARFORD	SUSQUEHANNA RIVER BASIN

Class	Owner Name
R	BOY SCOUTS OF AMERICA

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
58.00	0.10	5.80	242.00	24.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3941.00 7616.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife	Y	0.75
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD004	BROAD FORD DAM	BROADFORD RUN,N BR POTOMAC R	MD

County Name	River Basin
GARRETT	YOUGHIOGHENY RIVER BASIN

Class		Owner Name		
M		OAKLAND,TOWN OF		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
19.00	0.10	1.90	80.00	8

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3925.00
C	STG	XX	WO	Longitude	7928.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD005	DEVILS BACKBONE	ANTIETAM CR,POTOMAC R	MD

County Name	River Basin
WASHINGTON	POTOMAC RIVER BASIN

Class	Owner Name
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M	WASHINGTON CO PARKS COMM
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
117.00	0.10	11.70	722.00	72.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3923.00 7742.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD006	EDEN MILL	DEER CR,SUSQUEHANNA R	MD

County Name	River Basin
HARFORD	SUSQUEHANNA RIVER BASIN

Class		Owner Name		
M		HARFORD,COUNTY OF, PARKS DEPT		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
115.00	0.10	11.50	732.00	73.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3941.00	Longitude	7628.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife	Y	0.75
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD007	FORT MEADE WS DAM	L PATUXENT R	MD

County Name	River Basin
ANNE ARUNDEL	PATUXENT RIVER BASIN

Class	Owner Name
F	U.S.ARMY

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
79.00	0.50	39.50	450.00	225

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR		WO	3906.00	7647.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108	Y	0.75
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD008	HAGERSTOWN POWER PLANT	ANTIETAM CR,POTOMAC R	MD

County Name	River Basin
WASHINGTON	POTOMAC RIVER BASIN

Class	Owner Name
M	HAGERSTOWN,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
117.00	0.10	11.70	722.00	72.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3938.00	Longitude	7743.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103	Y	0.10
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value	Y	0.75	Federal Land Code 105		0.90
Geologic Value	Y	0.90	Federal Land Code 106		0.90
Historic Value	Y	0.75	Federal Land Code 107		0.90
Other Value	Y	0.75	Federal Land Code 108		0.90
Recreation Value	Y	0.75	Federal Land Code 198		0.90
Scenic Value	Y	0.90			

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FERC Number	Plant Name	Stream	State Name
MD009	INDUSTRIAL DAM	N BR POTOMAC R	MD

County Name	River Basin
ALLEGANY	POTOMAC RIVER BASIN

Class	Owner Name
M	CUMBERLAND, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1198.00	0.10	119.80	5380.00	538

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3939.00 7846.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD010	JOHNSONS POND	N PRONG WICOMICO R	MD

County Name	River Basin
WICOMICO	WICOMICO RIVER BASIN

Class	Owner Name
M	SALISBURY, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
36.00	0.10	3.60	149.00	14.90

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3822.00 7536.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife	Y	0.75
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD011	KEMPS MILL	CONOCHEAGUE CR	MD

County Name	River Basin
WASHINGTON	POTOMAC RIVER BASIN

Class	Owner Name
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R	OLD MILL INN
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
375.00	0.50	187.50	1873.00	936.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3937.00	Longitude	7749.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD012	LAKE LINGANORE	LINGANORE CR, MONOCACY RIVER	MD

County Name	River Basin
FREDERICK	POTOMAC RIVER BASIN

Class	Owner Name
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R	LAKE LINGANORE ASSOC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
320.00	0.10	32.00	1725.00	172.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3925.00 7720.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD013	LAKE ROLAND	JONES FALLS,GUNPOWDER R	MD

County Name	River Basin
BALTIMORE	PATAPSCO RIVER BASIN

Class	Owner Name
M	BALTIMORE,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
84.00	0.10	8.40	508.00	50.80

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3923.00 7639.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD014	LITTLE SENECA	L SENECA CR,POTOMAC R	MD

County Name	River Basin
MONTGOMERY	POTOMAC RIVER BASIN

Class	Owner Name
M	WASHINGTON SUBURBAN SANITARY COMM

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
92.00	0.10	9.20	385.00	38.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3911.00 7718.00
C	STG		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD015	MICHAELS MILL DAM	MONOCACY R	MD

County Name	River Basin
FREDERICK	POTOMAC RIVER BASIN

Class	Owner Name
R	MRS CRENE, MICHAEL

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
273.00	0.10	27.30	1267.00	126.70

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3920.00	Longitude	7725.00
C	ROR		U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.50	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.25	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.50	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD016	NOBLE MILL	DEER CR,SUSQUEHANNA R	MD

County Name	River Basin
HARFORD	SUSQUEHANNA RIVER BASIN

Class	Owner Name
P	DUKE,MONROE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
86.00	0.10	8.60	557.00	55.70

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3937.00 7664.00
C	ROR		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.25
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife	Y	0.50
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.25	Federal Land Code 104		0.90
Geologic Value	Y	0.50	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.50	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD017	OTTERDALE MILL	BIG PIPE CR, MONOCACY R	MD

County Name	River Basin
CARROLL	POTOMAC RIVER BASIN

Class	Owner Name
R	DERR, EDWARD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
50.00	0.50	25.00	244.00	122

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3937.00 7710.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD018	R PAUL SMITH DAM	POTOMAC R	MD

County Name	River Basin
WASHINGTON	POTOMAC RIVER BASIN

Class		Owner Name		
I		POTOMAC EDISON CO		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2802.00	0.10	280.20	13439.00	1343.90

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3936.00 7750.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD019	PINEY RUN	PINEY RUN, MONOCACY R	MD

County Name	River Basin
CARROLL	POTOMAC RIVER BASIN

Class	Owner Name
M	CARROLL COUNTY COMMISSIONERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
43.00	0.10	4.30	257.00	25.70

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3923.00 7659.00
C	RES		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD020	PRETTYBOY	GUNPOWDER R	MD

County Name	River Basin
BALTIMORE	GUNPOWDER RIVER BASIN

Class		Owner Name		
M		BALTIMORE, CITY OF		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1790.00	0.10	179.00	7875.00	787.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3938.00 7643.00
C	STG		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD021	ROCKY GAP	ROCKY GAP RUN,N BR POTOMAC R	MD

County Name	River Basin
ALLEGANY	POTOMAC RIVER BASIN

Class	Owner Name
M	MD DEPT OF NATURAL RESOURCES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
71.00	0.10	7.10	296.00	29.60

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3942.00
C	STG		WO	Longitude	7840.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD022	SECURITY MILL	ANTIETAM CR,POTOMAC R	MD

County Name	River Basin
WASHINGTON	POTOMAC RIVER BASIN

Class	Owner Name
I	MARQUETTE CEMENT MFG CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
89.00	0.10	8.90	552.00	55.20

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3939.00	Longitude	7741.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD023	SIMKINS	PATAPSCO R	MD

County Name	River Basin
BALTIMORE	PATAPSCO RIVER BASIN

Class	Owner Name
I	SIMKINS INDUSTRIES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
235.00	0.10	23.50	1200.00	120

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3915.00	Longitude	7646.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD024	STARNERS	MONOCACY R	MD

County Name	River Basin
FREDERICK	POTOMAC RIVER BASIN

Class	Owner Name
P	STARNERS DAM ASSOCIATION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
151.00	0.50	75.50	525.00	262.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3942.00	Longitude	7713.00
C	ROR		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD025	TUCKAHOE STATE PARK	TUCKAHOE CR,CHOPTANK R	MD

County Name	River Basin
CAROLINE	CHOPTANK RIVER BASIN

Class	Owner Name
M	MD DEPT OF NATURAL RESOURCES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
68.00	0.10	6.80	344.00	34.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3858.00
C	ROR		WO	Longitude	7557.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD026	UPPER ROCK CREEK#1	TRIB,N BR ROCK CR,POTOMAC R	MD

County Name	River Basin
MONTGOMERY	POTOMAC RIVER BASIN

Class	Owner Name
M	MNCPPC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
20.00	0.10	2.00	99.00	9.90

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3906.00	Longitude	7707.00
C	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD027	UPPER ROCK CREEK#5	ROCK CR,POTOMAC R	MD

County Name	River Basin
MONTGOMERY	POTOMAC RIVER BASIN

Class	Owner Name
M	MNCPPC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
18.00	0.10	1.80	93.00	9.30

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3907.00	Longitude	7708.00
C	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
MD028	WESTVACO DAM	NORTH BRANCH POTOMAC RIVER	MD

County Name	River Basin
ALLEGANY	POTOMAC RIVER BASIN

Class	Owner Name
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I	WESTVACO
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
347.00	0.10	34.70	1594.00	159.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR		WO	3928.00	7903.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103	Y	0.10
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value	Y	0.75	Federal Land Code 105		0.90
Geologic Value	Y	0.90	Federal Land Code 106		0.90
Historic Value	Y	0.75	Federal Land Code 107		0.90
Other Value	Y	0.75	Federal Land Code 108		0.90
Recreation Value	Y	0.75	Federal Land Code 198		0.90
Scenic Value	Y	0.90			