



1. The budget and financial plan shall be accompanied by all requirements listed in Section 203.6 of 2 NYCRR, including:
  - a. an explanation of the public authority's relationship with the unit or units of government, if any, on whose behalf or benefit the authority was established;

The Regulating District's mission is to comply with its enabling statute ([Article 15 Title 21 of the Environmental Conservation Law](#)) to:

- Formulate policy for watershed management
- Operate and maintain reservoir facilities
- Regulate water flow from reservoirs to minimize flooding during periods of high water flow
- Augment river flows to maintain water quality during low flow periods
- Operate a data-gathering system for precipitation, stream flow, snow depth and flood conditions
- At Great Sacandaga Lake maintain specific reservoir levels in accordance with the [Upper Hudson/Sacandaga Offer of Settlement](#)
- At Indian Lake, Stillwater Reservoir, Old Forge and Sixth Lake provide storage during period of high flow and augment naturally occurring low flows
- Maintain a sound financial status for maintenance of Regulating District facilities
- Promulgate rules and regulations necessary to fulfilling its mission

The Regulating District has four main revenue sources:

- i. Statutory Beneficiaries (Hudson River Area, Black River Area, NYS Share): In accordance with the Regulating District's enabling statute ([Article 15 Title 21 of the Environmental Conservation Law](#)), the Regulating District annually assesses its operation and maintenance expenses, including property taxes, amongst the beneficiaries of record.
- ii. Hydroelectric Site Agreements (Hudson River and Black River Areas): The Regulating District receives revenues from hydroelectric site agreements that grant certain hydroelectric generators the right to use State-owned land, head and/or water rights for the production of hydroelectric power. The Regulating District is presently a party to two such agreements; one at the Conklingville Dam in the Hudson River Area and the other at the Stillwater Dam in the Black River Area.
- iii. Great Sacandaga Lake Permit Fees (Hudson River Area only): The Regulating District collects an access permit fee for use of a portion of the State-owned buffer zone encompassing the Great Sacandaga Lake.
- iv. Headwaters Benefit fees (Hudson River Area only) pursuant to Section 10f of the Federal Power Act. Fees, which are set by FERC, are payable by each hydro-electric licensee upon satisfaction of refunds in certain cases.

- b. a description of the budget process, including the dates of key budget decisions;

**See Exhibit 1 Attached: Budget Development Schedule**

- c. a description of the principal budget assumptions, including sources of revenues, staffing and future collective bargaining costs, and programmatic goals;
  - a. Principal Budget Assumptions
    - i. Annual revenue sources limited to Statutory Beneficiaries (\$4.15MM), hydropower agreements (\$1.31MM) and the Districts Permit System (\$412K).
    - ii. Staffing: Static environment
    - iii. Programmatic Goals – N/A
- d. a self-assessment of budgetary risks;
  - i. Risks are largely a function of our enabling legislation, which requires a 3-year plan. Despite the stability of operations, two of the District’s largest statutory beneficiaries have commenced Article 78 proceedings against the District challenging the authority to apportion costs. There is a pending settlement with one of the two. Effect of a negative ruling could seriously impact the Districts ability to operate.
- e. a revised forecast of the current year’s budget;

**See Attached: Actual Performance\_2015\_2016\_Current\_Budget\_Forecast**

- f. a reconciliation that identifies all changes in estimates from the projections in the previously approved budget or plan; **N/A**
- g. a statement of the last completed fiscal year’s actual financial performance in categories consistent with the proposed budget or financial plan;

**See Attached: Actual Performance\_2015\_2016\_Current\_Budget\_Forecast**

- h. a projection of the number of employees, including sources of funding, the numbers of full-time and full-time equivalents, and functional classifications;
  - a. 21 employees  
20 fulltime – 1 part time
  - b. 12 CSEA Union (clerical/blue collar)
  - c. 9 Management/Exempt
  - d. Funding Source is primarily Beneficiary assessment
- i. a statement of each revenue-enhancement and cost-reduction initiative that represents a component of any gap-closing program and the annual impact on revenues, expenses and staffing; - **2010 Headcount reduction remains largely in place.**
- j. a statement of the source and amount of any material non-recurring resource that is planned for use in any given fiscal year; - **N/A**

- k. a statement of any transactions that shift material resources from one year to another and the amount of any reserves; - **N/A**
- l. a statement of borrowed debt projected to be outstanding at the end of each fiscal year covered by the budget or financial plan; the planned use or purpose of debt issuances; scheduled debt service payments for both issued and proposed debt; the principal amount of proposed debt and assumed interest rate(s); debt service for each issuance as a percentage of total pledged revenues, listed by type or category of pledged revenues; cumulative debt service as a percentage of available revenues; and amount of debt that can be issued until legal limits are met; and – **See Debt Service Document**
- m. a statement of the annual projected capital cost broken down by category and sources of funding, and for each capital project, estimates of the annual commitment, total project cost, expected date of completion and the annual cost for operating and maintaining those capital projects or capital categories that, when placed into service, are expected to have a material impact on the operating budget. – **See attached Capital Plan**

**NOTE:** In accordance with Section 203.8 of 2 NYCRR, the public authority must inform the State Comptroller in writing at any point during the fiscal year when the chief financial officer learns of the potential financial impact of any adverse development that would materially affect the budget or financial plan. – **N/A**

**Hudson River-Black River Regulating District  
Annual Public Authority Budget & Financial Plan Request 6/30/2016**

e. a revised forecast of the current year's budget;

g. a statement of the last completed fiscal year's actual financial performance in categories consistent with the proposed budget or financial plan;

	<u>Budget FY 6/30/2015</u>	<u>Actual 6/30/2015</u>	<u>Forecast Projected FY 6/30/2016</u>	<u>Budget FY 6/30/2017</u>	<u>Budget FY 6/30/2018</u>
<b>Operating Revenue:</b>					
Assessments	\$ 4,965,413	\$ 4,965,418 (3)	\$ 7,742,942 (3), (4)	\$ 4,999,639 (3)	\$ 4,998,623 (3)
Water Power Service	1,243,217	1,244,237	1,280,513	1,318,929	1,358,497
Permit Fees	421,702	422,371	420,000	412,000	412,000
<b>Total Operating Revenue</b>	<b>\$ 6,630,332</b>	<b>\$ 6,632,026</b>	<b>\$ 9,443,455</b>	<b>\$ 6,730,568</b>	<b>\$ 6,769,120</b>
<b>Operating Expenses:</b>					
Salaries	\$ 1,432,998	\$ 1,279,682	\$ 1,390,704	\$ 1,524,016	\$ 1,561,907
Payroll Taxes	143,440	134,276	152,977	155,207	158,135
Pension	309,613	315,912	319,108	304,357	311,990
Health Ins & Other Employee Benefits	852,702	1,321,891 (1)	1,554,496 (1)	862,221	932,330
Real Estate Taxes	2,701,485	2,762,255	2,762,106	2,954,825	3,016,507
Depreciation		215,306		-	
Insurance	220,358	190,109	191,993	206,075	212,334
Engineering Fees	130,000	393,528	300,000	20,000	100,000
U.S. Geological Survey Contract	116,469	128,513	107,890	109,966	110,257
Rent	57,980	34,970	47,000	48,340	48,987
Utilities	41,553	30,143	32,455	37,052	37,874
Telephone/Data	34,069	34,673	41,506	37,846	37,846
Travel	14,034	25,700	28,021	33,406	33,977
Repairs and Maintenance	15,232	25,340	13,732	13,963	14,206
Professional Fees	30,093	108,384	80,000	108,675	112,718
Postage	7,041	3,345	4,730	6,097	6,230
Office Expense	13,001	7,062	10,370	19,362	13,739
Minor Equipment, Material and Supplies	47,892	23,252	62,030	44,369	43,860
Miscellaneous	75,970	95,447 (2)	80,187	11,267	8,252
Capital Improvements	62,150	0	51,316	53,895	(36,500)
Erosion Control/Maintenance	64,699	32,529	32,529	16,320	16,646
<b>Total Operating Expenses</b>	<b>\$ 6,370,779</b>	<b>\$ 7,162,318</b>	<b>\$ 7,263,150</b>	<b>\$ 6,567,259</b>	<b>\$ 6,741,296</b>
<b>Non-Operating Revenues (Expenses):</b>					
Interest and Dividend Income	20,500	\$ 6,717	500	1,000	1,000
Miscellaneous Income	20,000	(15,928)		15,800	30,001
Realized and Unrealized Loss on Investments				-	
Settlement Expense		-		-	
Unappropriated Funds				(119,853)	299,850
<b>Total Non- Operating Revenues (Expenses)</b>	<b>\$ 40,500</b>	<b>\$ (9,211)</b>	<b>\$ 500</b>	<b>\$ (103,053)</b>	<b>\$ 330,851</b>
<b>Debt Service</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 83,163</b>	<b>\$ 375,263</b>
<b>Surplus/(Deficit):</b>	<b>\$ 300,053</b>	<b>\$ (539,503)</b>	<b>\$ 2,180,805</b>	<b>\$ (22,906)</b>	<b>\$ (16,589)</b>

**Footnote:**

- (1) Includes Annual OPEB and Net OPEB pursuant to GASB 45
- (2) Includes Bad Debt expense for Hudson River Area Assessment write-offs
- (3) Reflects Consent Agreement with the 5 Counties dated March 13, 2013
- (4) Reflects federal headwater benefit fees collected \$2.9MM

**Statement of Debt – 15-18 Budget Cycle**

l.) a statement of borrowed debt projected to be outstanding at the end of each fiscal year covered by the budget or financial plan; the planned use or purpose of debt issuances; scheduled debt service payments for both issued and proposed debt; the principal amount of proposed debt and assumed interest rate(s); debt service for each issuance as a percentage of total pledged revenues, listed by type or category of pledged revenues; cumulative debt service as a percentage of available revenues; and amount of debt that can be issued until legal limits are met.

**Planned Use of Debt issuances:**

Debt issued is to cover the cost of four (4) capital structure projects, 1) Conklingville Dam Spillway Reconstruction and 2) Hawkinsville Dam Remediation, 3) Indian Lake Dam Reconstruction, 4) Old Forge Dam Reconstruction.

**Scheduled Debt Service Payments – see amortization tables.**

**Debt Service for each issuance as a percentage of total pledged revenues**

	<u>Revenue</u>	<u>Total Debt Limit</u>
a. Conklingville Dam Spillway Reconstruction - 4.5%	\$5,860,034.00	\$3,246,867.00
b. Hawkinsville Dam Remediation – 8.4%	\$1,151,618.00	\$1,249,098.00
c. Indian Lake Dam Reconstruction – 1.0%	\$5,860,034.00	\$ 720,000.00
d. Old Forge Dam Reconstruction – 4.6%	\$1,151,618.00	\$ 640,000.00

**Cumulative Debt % - 2.8%**

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SOURCES AND USES OF FUNDS

Hudson River Black River Regulating District  
2016 Bond Issue

Dated Date 07/01/2016  
Delivery Date 07/01/2016

Sources:

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Bond Proceeds:	
Par Amount	1,055,000.00
Premium	15,793.20
	<hr/>
	1,070,793.20

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Uses:

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Project Fund Deposits:	
Net Proceeds	900,000.00
Other Fund Deposits:	
Debt Service Reserve Fund	66,125.00
Delivery Date Expenses:	
Cost of Issuance	65,000.00
Underwriter's Discount	<hr/>
	35,000.00
	100,000.00
Other Uses of Funds:	
Additional Proceeds	4,668.20
	<hr/>
	1,070,793.20

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BOND SUMMARY STATISTICS

Hudson River Black River Regulating District  
2016 Bond Issue

Dated Date	07/01/2016
Delivery Date	07/01/2016
Last Maturity	07/01/2046
Arbitrage Yield	4.214330%
True Interest Cost (TIC)	4.491443%
Net Interest Cost (NIC)	4.463946%
All-In TIC	5.045695%
Average Coupon	4.365802%
Average Life (years)	18.550
Duration of Issue (years)	12.159
Par Amount	1,055,000.00
Bond Proceeds	1,070,793.20
Total Interest	854,387.50
Net Interest	873,594.30
Total Debt Service	1,909,387.50
Maximum Annual Debt Service	66,125.00
Average Annual Debt Service	63,646.25

Bond Component	Par Value	Price	Average Coupon	Average Life
Serial Bonds	1,055,000.00	101.497	4.366%	18.550
	1,055,000.00			18.550

	TIC	All-In TIC	Arbitrage Yield
Par Value	1,055,000.00	1,055,000.00	1,055,000.00
+ Accrued Interest			
+ Premium (Discount)	15,793.20	15,793.20	15,793.20
- Underwriter's Discount	-35,000.00	-35,000.00	
- Cost of Issuance Expense		-65,000.00	
- Other Amounts			
Target Value	1,035,793.20	970,793.20	1,070,793.20
Target Date	07/01/2016	07/01/2016	07/01/2016
Yield	4.491443%	5.045695%	4.214330%

**BOND PRICING**

Hudson River Black River Regulating District  
2016 Bond Issue

Bond Component	Maturity Date	Amount	Rate	Yield	Price	Yield to Maturity	Call Date	Call Price
Serial Bonds:								
	07/01/2017	20,000	2.000%	1.890%	100.108			
	07/01/2018	20,000	3.000%	2.280%	101.399			
	07/01/2019	20,000	3.000%	2.480%	101.494			
	07/01/2020	20,000	3.000%	2.670%	101.244			
	07/01/2021	20,000	3.000%	2.900%	100.462			
	07/01/2022	20,000	4.000%	3.070%	105.060			
	07/01/2023	25,000	4.000%	3.190%	105.045			
	07/01/2024	25,000	4.000%	3.330%	104.671			
	07/01/2025	25,000	4.000%	3.440%	104.302			
	07/01/2026	25,000	4.000%	3.570%	103.589			
	07/01/2027	25,000	4.000%	3.650%	102.910	3.676%	07/01/2026	100.000
	07/01/2028	30,000	4.000%	3.790%	101.734	3.819%	07/01/2026	100.000
	07/01/2029	30,000	4.000%	3.870%	101.069	3.894%	07/01/2026	100.000
	07/01/2030	30,000	4.000%	3.950%	100.409	3.962%	07/01/2026	100.000
	07/01/2031	30,000	4.250%	4.010%	101.961	4.074%	07/01/2026	100.000
	07/01/2032	35,000	4.250%	4.060%	101.548	4.117%	07/01/2026	100.000
	07/01/2033	35,000	4.250%	4.100%	101.220	4.149%	07/01/2026	100.000
	07/01/2034	35,000	4.250%	4.140%	100.893	4.179%	07/01/2026	100.000
	07/01/2035	40,000	4.250%	4.180%	100.567	4.206%	07/01/2026	100.000
	07/01/2036	40,000	4.250%	4.220%	100.242	4.232%	07/01/2026	100.000
	07/01/2037	40,000	4.500%	4.280%	101.937	4.358%	07/01/2026	100.000
	07/01/2038	45,000	4.500%	4.290%	101.693	4.379%	07/01/2026	100.000
	07/01/2039	45,000	4.500%	4.320%	101.449	4.399%	07/01/2026	100.000
	07/01/2040	45,000	4.500%	4.340%	101.286	4.413%	07/01/2026	100.000
	07/01/2041	50,000	4.500%	4.360%	101.124	4.425%	07/01/2026	100.000
	07/01/2042	50,000	4.500%	4.380%	100.963	4.437%	07/01/2026	100.000
	07/01/2043	55,000	4.500%	4.390%	100.882	4.444%	07/01/2026	100.000
	07/01/2044	55,000	4.500%	4.400%	100.802	4.450%	07/01/2026	100.000
	07/01/2045	60,000	4.500%	4.410%	100.721	4.455%	07/01/2026	100.000
	07/01/2046	60,000	4.500%	4.420%	100.640	4.461%	07/01/2026	100.000
		1,055,000						

Dated Date	07/01/2016	
Delivery Date	07/01/2016	
First Coupon	01/01/2017	
Par Amount	1,055,000.00	
Premium	15,793.20	
Production	1,070,793.20	101.496986%
Underwriter's Discount	-35,000.00	-3.317536%
Purchase Price	1,035,793.20	98.179450%
Accrued Interest		
Net Proceeds	1,035,793.20	

BOND DEBT SERVICE

Hudson River Black River Regulating District  
2016 Bond Issue

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
01/01/2017			22,031.25	22,031.25	
07/01/2017	20,000	2.000%	22,031.25	42,031.25	
12/31/2017					64,062.50
01/01/2018			21,831.25	21,831.25	
07/01/2018	20,000	3.000%	21,831.25	41,831.25	
12/31/2018					63,662.50
01/01/2019			21,531.25	21,531.25	
07/01/2019	20,000	3.000%	21,531.25	41,531.25	
12/31/2019					63,062.50
01/01/2020			21,231.25	21,231.25	
07/01/2020	20,000	3.000%	21,231.25	41,231.25	
12/31/2020					62,462.50
01/01/2021			20,931.25	20,931.25	
07/01/2021	20,000	3.000%	20,931.25	40,931.25	
12/31/2021					61,862.50
01/01/2022			20,631.25	20,631.25	
07/01/2022	20,000	4.000%	20,631.25	40,631.25	
12/31/2022					61,262.50
01/01/2023			20,231.25	20,231.25	
07/01/2023	25,000	4.000%	20,231.25	45,231.25	
12/31/2023					65,462.50
01/01/2024			19,731.25	19,731.25	
07/01/2024	25,000	4.000%	19,731.25	44,731.25	
12/31/2024					64,462.50
01/01/2025			19,231.25	19,231.25	
07/01/2025	25,000	4.000%	19,231.25	44,231.25	
12/31/2025					63,462.50
01/01/2026			18,731.25	18,731.25	
07/01/2026	25,000	4.000%	18,731.25	43,731.25	
12/31/2026					62,462.50
01/01/2027			18,231.25	18,231.25	
07/01/2027	25,000	4.000%	18,231.25	43,231.25	
12/31/2027					61,462.50
01/01/2028			17,731.25	17,731.25	
07/01/2028	30,000	4.000%	17,731.25	47,731.25	
12/31/2028					65,462.50
01/01/2029			17,131.25	17,131.25	
07/01/2029	30,000	4.000%	17,131.25	47,131.25	
12/31/2029					64,262.50
01/01/2030			16,531.25	16,531.25	
07/01/2030	30,000	4.000%	16,531.25	46,531.25	
12/31/2030					63,062.50
01/01/2031			15,931.25	15,931.25	
07/01/2031	30,000	4.250%	15,931.25	45,931.25	
12/31/2031					61,862.50
01/01/2032			15,293.75	15,293.75	
07/01/2032	35,000	4.250%	15,293.75	50,293.75	
12/31/2032					65,587.50
01/01/2033			14,550.00	14,550.00	
07/01/2033	35,000	4.250%	14,550.00	49,550.00	
12/31/2033					64,100.00
01/01/2034			13,806.25	13,806.25	
07/01/2034	35,000	4.250%	13,806.25	48,806.25	
12/31/2034					62,612.50
01/01/2035			13,062.50	13,062.50	
07/01/2035	40,000	4.250%	13,062.50	53,062.50	
12/31/2035					66,125.00
01/01/2036			12,212.50	12,212.50	
07/01/2036	40,000	4.250%	12,212.50	52,212.50	
12/31/2036					64,425.00
01/01/2037			11,362.50	11,362.50	
07/01/2037	40,000	4.500%	11,362.50	51,362.50	
12/31/2037					62,725.00
01/01/2038			10,462.50	10,462.50	
07/01/2038	45,000	4.500%	10,462.50	55,462.50	
12/31/2038					65,925.00
01/01/2039			9,450.00	9,450.00	

BOND DEBT SERVICE

Hudson River Black River Regulating District  
2016 Bond Issue

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
07/01/2039	45,000	4.500%	9,450.00	54,450.00	
12/31/2039					63,900.00
01/01/2040			8,437.50	8,437.50	
07/01/2040	45,000	4.500%	8,437.50	53,437.50	
12/31/2040					61,875.00
01/01/2041			7,425.00	7,425.00	
07/01/2041	50,000	4.500%	7,425.00	57,425.00	
12/31/2041					64,850.00
01/01/2042			6,300.00	6,300.00	
07/01/2042	50,000	4.500%	6,300.00	56,300.00	
12/31/2042					62,600.00
01/01/2043			5,175.00	5,175.00	
07/01/2043	55,000	4.500%	5,175.00	60,175.00	
12/31/2043					65,350.00
01/01/2044			3,937.50	3,937.50	
07/01/2044	55,000	4.500%	3,937.50	58,937.50	
12/31/2044					62,875.00
01/01/2045			2,700.00	2,700.00	
07/01/2045	60,000	4.500%	2,700.00	62,700.00	
12/31/2045					65,400.00
01/01/2046			1,350.00	1,350.00	
07/01/2046	60,000	4.500%	1,350.00	61,350.00	
12/31/2046					62,700.00
	1,055,000		854,387.50	1,909,387.50	1,909,387.50

PROOF OF ARBITRAGE YIELD

Hudson River Black River Regulating District  
2016 Bond Issue

Date	Debt Service	Present Value to 07/01/2016 @ 4.2143299625%
01/01/2017	22,031.25	21,576.60
07/01/2017	42,031.25	40,314.37
01/01/2018	21,831.25	20,507.37
07/01/2018	41,831.25	38,483.62
01/01/2019	21,531.25	19,399.39
07/01/2019	41,531.25	36,646.94
01/01/2020	21,231.25	18,347.72
07/01/2020	41,231.25	34,896.09
01/01/2021	20,931.25	17,349.59
07/01/2021	40,931.25	33,227.13
01/01/2022	20,631.25	16,402.39
07/01/2022	40,631.25	31,636.29
01/01/2023	20,231.25	15,427.37
07/01/2023	45,231.25	33,779.37
01/01/2024	19,731.25	14,431.50
07/01/2024	44,731.25	32,041.40
01/01/2025	19,231.25	13,491.24
07/01/2025	44,231.25	30,389.06
01/01/2026	18,731.25	12,603.72
07/01/2026	43,731.25	28,818.24
01/01/2027	18,231.25	11,766.19
07/01/2027	43,231.25	27,325.05
01/01/2028	17,731.25	10,976.06
07/01/2028	47,731.25	28,937.00
01/01/2029	17,131.25	10,171.47
07/01/2029	47,131.25	27,406.10
01/01/2030	16,531.25	9,414.30
07/01/2030	46,531.25	25,951.99
01/01/2031	15,931.25	8,702.01
07/01/2031	45,931.25	24,570.94
01/01/2032	15,293.75	8,012.56
07/01/2032	50,293.75	25,805.66
01/01/2033	14,550.00	7,311.52
07/01/2033	49,550.00	24,385.53
01/01/2034	13,806.25	6,654.39
07/01/2034	48,806.25	23,038.36
01/01/2035	13,062.50	6,038.74
07/01/2035	53,062.50	24,024.34
01/01/2036	12,212.50	5,415.17
07/01/2036	52,212.50	22,673.88
01/01/2037	11,362.50	4,832.47
07/01/2037	51,362.50	21,393.66
01/01/2038	10,462.50	4,267.94
07/01/2038	55,462.50	22,157.76
01/01/2039	9,450.00	3,697.45
07/01/2039	54,450.00	20,864.69
01/01/2040	8,437.50	3,166.44
07/01/2040	53,437.50	19,640.28
01/01/2041	7,425.00	2,672.65
07/01/2041	57,425.00	20,243.71
01/01/2042	6,300.00	2,175.07
07/01/2042	56,300.00	19,036.41
01/01/2043	5,175.00	1,713.68
07/01/2043	60,175.00	19,515.53
01/01/2044	3,937.50	1,250.63
07/01/2044	58,937.50	18,333.42
01/01/2045	2,700.00	822.54
07/01/2045	62,700.00	18,707.12
01/01/2046	1,350.00	394.47
07/01/2046	61,350.00	17,556.64
	1,909,387.50	1,070,793.20

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PROOF OF ARBITRAGE YIELD

Hudson River Black River Regulating District  
2016 Bond Issue

Proceeds Summary

Delivery date	07/01/2016
Par Value	1,055,000.00
Premium (Discount)	15,793.20
Target for yield calculation	<u>1,070,793.20</u>

PROOF OF ARBITRAGE YIELD

Hudson River Black River Regulating District  
2016 Bond Issue

Assumed Call/Computation Dates for Premium Bonds

Bond Component	Maturity Date	Rate	Yield	Call Date	Call Price	Net Present Value (NPV) to 07/01/2016 @ 4.2143299625%
S	07/01/2027	4.000%	3.650%			-1,195.30

Rejected Call/Computation Dates for Premium Bonds

Bond Component	Maturity Date	Rate	Yield	Call Date	Call Price	Net Present Value (NPV) to 07/01/2016 @ 4.2143299625%	Increase to NPV
S	07/01/2027	4.000%	3.650%	07/01/2026	100.000	-1,161.08	34.22

FORM 8038 STATISTICS

Hudson River Black River Regulating District  
2016 Bond Issue

Dated Date 07/01/2016  
Delivery Date 07/01/2016

Bond Component	Date	Principal	Coupon	Price	Issue Price	Redemption at Maturity
Serial Bonds:						
	07/01/2017	20,000.00	2.000%	100.108	20,021.60	20,000.00
	07/01/2018	20,000.00	3.000%	101.399	20,279.80	20,000.00
	07/01/2019	20,000.00	3.000%	101.494	20,298.80	20,000.00
	07/01/2020	20,000.00	3.000%	101.244	20,248.80	20,000.00
	07/01/2021	20,000.00	3.000%	100.462	20,092.40	20,000.00
	07/01/2022	20,000.00	4.000%	105.060	21,012.00	20,000.00
	07/01/2023	25,000.00	4.000%	105.045	26,261.25	25,000.00
	07/01/2024	25,000.00	4.000%	104.671	26,167.75	25,000.00
	07/01/2025	25,000.00	4.000%	104.302	26,075.50	25,000.00
	07/01/2026	25,000.00	4.000%	103.589	25,897.25	25,000.00
	07/01/2027	25,000.00	4.000%	102.910	25,727.50	25,000.00
	07/01/2028	30,000.00	4.000%	101.734	30,520.20	30,000.00
	07/01/2029	30,000.00	4.000%	101.069	30,320.70	30,000.00
	07/01/2030	30,000.00	4.000%	100.409	30,122.70	30,000.00
	07/01/2031	30,000.00	4.250%	101.961	30,588.30	30,000.00
	07/01/2032	35,000.00	4.250%	101.548	35,541.80	35,000.00
	07/01/2033	35,000.00	4.250%	101.220	35,427.00	35,000.00
	07/01/2034	35,000.00	4.250%	100.893	35,312.55	35,000.00
	07/01/2035	40,000.00	4.250%	100.567	40,226.80	40,000.00
	07/01/2036	40,000.00	4.250%	100.242	40,096.80	40,000.00
	07/01/2037	40,000.00	4.500%	101.937	40,774.80	40,000.00
	07/01/2038	45,000.00	4.500%	101.693	45,761.85	45,000.00
	07/01/2039	45,000.00	4.500%	101.449	45,652.05	45,000.00
	07/01/2040	45,000.00	4.500%	101.286	45,578.70	45,000.00
	07/01/2041	50,000.00	4.500%	101.124	50,562.00	50,000.00
	07/01/2042	50,000.00	4.500%	100.963	50,481.50	50,000.00
	07/01/2043	55,000.00	4.500%	100.882	55,485.10	55,000.00
	07/01/2044	55,000.00	4.500%	100.802	55,441.10	55,000.00
	07/01/2045	60,000.00	4.500%	100.721	60,432.60	60,000.00
	07/01/2046	60,000.00	4.500%	100.640	60,384.00	60,000.00
		1,055,000.00			1,070,793.20	1,055,000.00

	Maturity Date	Interest Rate	Issue Price	Stated Redemption at Maturity	Weighted Average Maturity	Yield
Final Maturity	07/01/2046	4.500%	60,384.00	60,000.00		
Entire Issue			1,070,793.20	1,055,000.00	18.5009	4.2143%

Proceeds used for accrued interest	0.00
Proceeds used for bond issuance costs (including underwriters' discount)	100,000.00
Proceeds used for credit enhancement	0.00
Proceeds allocated to reasonably required reserve or replacement fund	66,125.00

Prepared by: **Richard J. Ferrara, CFO**

*Schedule C*  
**\$1,000,000**  
**30 Years**

**HUDSON RIVER - BLACK RIVER REGULATING DISTRICT**

**ESTIMATED DEBT SERVICE SCHEDULE - Hawkinsville Remediation**

**Dated Date: January 7, 2015**

**Principal Due: Dec. 15, 2016-2045**

**Interest Due: Dec. 15, 2016 and semi-annually thereafter on June 15 and Dec. 15**

<b>ESTIMATED</b>						
<b>Fiscal Year Ending December 31st</b>	<b>Balance Beginning Fiscal Year</b>	<b>Principal Due June 15th</b>	<b>Coupon Per Maturity</b>	<b>First Interest Payment Due June 15th</b>	<b>Second Interest Payment Due December 15th</b>	<b>Total Principal and Interest</b>
2016	\$1,000,000	\$15,000	4.500%	\$45,000.00	\$22,162.50	\$82,162.50
2017	985,000	15,000	4.500%	22,162.50	21,825.00	58,987.50
2018	970,000	20,000	4.500%	21,825.00	21,375.00	63,200.00
2019	950,000	20,000	4.500%	21,375.00	20,925.00	62,300.00
2020	930,000	20,000	4.500%	20,925.00	20,475.00	61,400.00
2021	910,000	20,000	4.500%	20,475.00	20,025.00	60,500.00
2022	890,000	20,000	4.500%	20,025.00	19,575.00	59,600.00
2023	870,000	20,000	4.500%	19,575.00	19,125.00	58,700.00
2024	850,000	25,000	4.500%	19,125.00	18,562.50	62,687.50
2025	825,000	25,000	4.500%	18,562.50	18,000.00	61,562.50
2026	800,000	25,000	4.500%	18,000.00	17,437.50	60,437.50
2027	775,000	25,000	4.500%	17,437.50	16,875.00	59,312.50
2028	750,000	30,000	4.500%	16,875.00	16,200.00	63,075.00
2029	720,000	30,000	4.500%	16,200.00	15,525.00	61,725.00
2030	690,000	30,000	4.500%	15,525.00	14,850.00	60,375.00
2031	660,000	30,000	4.500%	14,850.00	14,175.00	59,025.00
2032	630,000	35,000	4.500%	14,175.00	13,387.50	62,562.50
2033	595,000	35,000	4.500%	13,387.50	12,600.00	60,987.50
2034	560,000	35,000	4.500%	12,600.00	11,812.50	59,412.50
2035	525,000	40,000	4.500%	11,812.50	10,912.50	62,725.00
2036	485,000	40,000	4.500%	10,912.50	10,012.50	60,925.00
2037	445,000	40,000	4.500%	10,012.50	9,112.50	59,125.00
2038	405,000	45,000	4.500%	9,112.50	8,100.00	62,212.50
2039	360,000	45,000	4.500%	8,100.00	7,087.50	60,187.50
2040	315,000	45,000	4.500%	7,087.50	6,075.00	58,162.50
2041	270,000	50,000	4.500%	6,075.00	4,950.00	61,025.00
2042	220,000	50,000	4.500%	4,950.00	3,825.00	58,775.00
2043	170,000	55,000	4.500%	3,825.00	2,587.50	61,412.50
2044	115,000	55,000	4.500%	2,587.50	1,350.00	58,937.50
2045	60,000	60,000	4.500%	1,350.00	0.00	61,350.00
<b>TOTAL</b>		<b>\$1,000,000</b>		<b>\$443,925.00</b>	<b>\$398,925.00</b>	<b>\$1,842,850.00</b>

Average:	\$61,428.33
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*Schedule B*  
720,000  
25 Years

\$

## HUDSON RIVER - BLACK RIVER REGULATING DISTRICT

### ESTIMATED DEBT SERVICE SCHEDULE - Indian Dam Projects

Reconstruction

\$

720,000

**Dated Date: July 1, 2017**

**Principal Due: Dec. 15, 2016-2040**

**Interest Due: Dec. 15, 2016 and semi-annually thereafter on June 15 and Dec. 15**

ESTIMATED						
Fiscal Year Ending June 30th	Balance Beginning Fiscal Year	Principal Due December 15th	Coupon Per Maturity	First Interest Payment Due December 15th	Second Interest Payment Due June 15th	Total Principal and Interest
2016	\$720,000	\$15,000	4.000%	\$28,800.00	\$14,100.00	\$57,900.00
2017	705,000	20,000	4.000%	14,100.00	13,700.00	47,800.00
2018	685,000	20,000	4.000%	13,700.00	13,300.00	47,000.00
2019	665,000	20,000	4.000%	13,300.00	12,900.00	46,200.00
2020	645,000	20,000	4.000%	12,900.00	12,500.00	45,400.00
2021	625,000	20,000	4.000%	12,500.00	12,100.00	44,600.00
2022	605,000	20,000	4.000%	12,100.00	11,700.00	43,800.00
2023	585,000	25,000	4.000%	11,700.00	11,200.00	47,900.00
2024	560,000	25,000	4.000%	11,200.00	10,700.00	46,900.00
2025	535,000	25,000	4.000%	10,700.00	10,200.00	45,900.00
2026	510,000	25,000	4.000%	10,200.00	9,700.00	44,900.00
2027	485,000	25,000	4.000%	9,700.00	9,200.00	43,900.00
2028	460,000	30,000	4.000%	9,200.00	8,600.00	47,800.00
2029	430,000	30,000	4.000%	8,600.00	8,000.00	46,600.00
2030	400,000	30,000	4.000%	8,000.00	7,400.00	45,400.00
2031	370,000	30,000	4.000%	7,400.00	6,800.00	44,200.00
2032	340,000	30,000	4.000%	6,800.00	6,200.00	43,000.00
2033	310,000	35,000	4.000%	6,200.00	5,500.00	46,700.00
2034	275,000	35,000	4.000%	5,500.00	4,800.00	45,300.00
2035	240,000	35,000	4.000%	4,800.00	4,100.00	43,900.00
2036	205,000	40,000	4.000%	4,100.00	3,300.00	47,400.00
2037	165,000	40,000	4.000%	3,300.00	2,500.00	45,800.00
2038	125,000	40,000	4.000%	2,500.00	1,700.00	44,200.00
2039	85,000	40,000	4.000%	1,700.00	900.00	42,600.00
2040	45,000	45,000	4.000%	900.00	0.00	45,900.00
<b>TOTAL</b>		<b>\$720,000</b>		<b>\$229,900.00</b>	<b>\$201,100.00</b>	<b>\$1,151,000.00</b>

Average:	\$46,040.00
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Schedule B  
\$ 640,000  
25 Years

**HUDSON RIVER - BLACK RIVER REGULATING DISTRICT**

ESTIMATED DEBT SERVICE SCHEDULE - Old Forge Dam Projects

Dated Date: July 1, 2017

Principal Due: Dec. 15, 2016-2040

Interest Due: Dec. 15, 2016 and semi-annually thereafter on June 15 and Dec. 15

ESTIMATED												
Fiscal Year Ending June 30th	Balance Beginning Fiscal Year	Principal Due December 15th	Coupon Per Maturity	First Interest Payment Due December 15th	Second Interest Payment Due June 15th	Total Principal and Interest						
2017	\$640,000	\$15,000	4.000%	\$25,600.00	\$12,500.00	\$53,100.00	300.00	25,600.00	40,968	15,368	15000	
2018	625,000	15,000	4.000%	12,500.00	12,200.00	39,700.00	300.00	25,000.00	40,992	15,992	15000	
2019	610,000	15,000	4.000%	12,200.00	11,900.00	39,100.00	300.00	24,400.00	41,059	16,659	15000	
2020	595,000	15,000	4.000%	11,900.00	11,600.00	38,500.00	300.00	23,800.00	41,173	17,373	15000	
2021	580,000	20,000	4.000%	11,600.00	11,200.00	42,800.00	400.00	23,200.00	41,342	18,142	20000	
2022	560,000	20,000	4.000%	11,200.00	10,800.00	42,000.00	400.00	22,400.00	41,206	18,806	20000	
2023	540,000	20,000	4.000%	10,800.00	10,400.00	41,200.00	400.00	21,600.00	41,115	19,515	20000	
2024	520,000	20,000	4.000%	10,400.00	10,000.00	40,400.00	400.00	20,800.00	41,077	20,277	20000	
2025	500,000	20,000	4.000%	10,000.00	9,600.00	39,600.00	400.00	20,000.00	41,099	21,099	20000	
2026	480,000	20,000	4.000%	9,600.00	9,200.00	38,800.00	400.00	19,200.00	41,194	21,994	20000	
2027	460,000	25,000	4.000%	9,200.00	8,700.00	42,900.00	500.00	18,400.00	41,373	22,973	25000	
2028	435,000	25,000	4.000%	8,700.00	8,200.00	41,900.00	500.00	17,400.00	41,181	23,781	25000	
2029	410,000	25,000	4.000%	8,200.00	7,700.00	40,900.00	500.00	16,400.00	41,059	24,659	25000	
2030	385,000	25,000	4.000%	7,700.00	7,200.00	39,900.00	500.00	15,400.00	41,023	25,623	25000	
2031	360,000	25,000	4.000%	7,200.00	6,700.00	38,900.00	500.00	14,400.00	41,094	26,694	25000	
2032	335,000	30,000	4.000%	6,700.00	6,100.00	42,800.00	600.00	13,400.00	41,302	27,902	30000	
2033	305,000	30,000	4.000%	6,100.00	5,500.00	41,600.00	600.00	12,200.00	41,020	28,820	30000	
2034	275,000	30,000	4.000%	5,500.00	4,900.00	40,400.00	600.00	11,000.00	40,845	29,845	30000	
2035	245,000	30,000	4.000%	4,900.00	4,300.00	39,200.00	600.00	9,800.00	40,819	31,019	30000	
2036	215,000	30,000	4.000%	4,300.00	3,700.00	38,000.00	600.00	8,600.00	41,014	32,414	30000	
2037	185,000	35,000	4.000%	3,700.00	3,000.00	41,700.00	700.00	7,400.00	41,556	34,156	35000	
2038	150,000	35,000	4.000%	3,000.00	2,300.00	40,300.00	700.00	6,000.00	41,324	35,324	35000	
2039	115,000	35,000	4.000%	2,300.00	1,600.00	38,900.00	700.00	4,600.00	41,440	36,840	35000	
2040	80,000	40,000	4.000%	1,600.00	800.00	42,400.00	800.00	3,200.00	42,416	39,216	40000	
2041	40,000	40,000	4.000%	800.00	0.00	40,800.00	800.00	1,600.00	41,600	40,000	40000	
<b>TOTAL</b>		<b>\$640,000</b>		<b>\$205,700.00</b>	<b>\$180,100.00</b>	<b>\$1,025,800.00</b>					<b>640000</b>	

Average: \$41,032.00

**Hudson River-Black River Regulating District  
Budget Development Schedule  
Fiscal Years 2015-16, 2016-17, 2017-18**

<u>Activities/Deliverables</u>	<u>Respon</u>	<u>Target Date (MMM/YYYY)</u>
Strategic Budget Planning Sessions		
➤ Staffing/Head Count Plan around Mission	ED/Fin Chair/Sr. Staff	Nov - 2014
➤ Determine Revenues		
○ Assessments		
○ Water Power		
○ Interest		
○ Est. Permit System Costs		
○ Other		
➤ Capital Plan	ED/Fin Chair/Sr. Staff	Nov - 2014
○ Engineering & Construction		
○ Debt issuance		
➤ Reserve Utilization - N/A		
➤ Major non-capital line items		
○ Salaries/Benefits, Legal Services, Other Consulting, Data/Voice		
Finalize Budget Development Schedule	ED/Sr. Staff	Nov - 2014
Adopt Budget Development Schedule	Finance Committee	Dec – 2014 Board Mtg
Distribute Budget Worksheets to Sr. Staff	CFO	Dec - 2014
Submit Budget Worksheets to CFO	Sr. Staff	Jan - 2015
Finalize Capital Budget	Finance Chair/CFO/Staff	Feb – 2015
Produce 1 <sup>st</sup> Budget Draft	ED/CFO	Feb - 2015
Continue to Refine Budget	Sr. Staff	Feb - 2015
Review Refined Budget Draft	Finance Chair/ED/Sr. Staff	Feb – 2015
Status Report to Boards Finance Committee (Present initial Draft)	CFO	Mar – 2015 Fin Comm. Mtg
Produce Final Budget Draft	CFO	Mar - 2015
Adopt Proposed Budget	Finance Comm./ED/CFO	May – 2015 Fin Comm. Mtg
Adoption of 3 Year Budget	Board	Jun – 2015 Board Mtg

RESERVOIR FACILITY MAINTENANCE, REPAIR, ENGINEERING & OPERATION BUDGET 2015 - 2018

FINAL DRAFT

Hudson River Area

Bonded Projects #1

6/12/2015 11:18

Bonded Projects #2

Category	Item	2015-2016	2016-2017	2017-2018	Comments	Work Schedule
<b>Training/Education</b>						
	Engineering Staff Training	\$ 6,000	\$ 6,000	\$ 6,000		
<b>Engineering Studies</b>						
Conklingville	Supplemental Geotechnical - Phase II Engineering	\$ 81,000			\$96K total (\$15K in '12-'15)	
	Spillway Reconstruction		\$ 20,000			Hire consultant July 2016
	Warning Sirens			\$ 50,000		Hire consultant July 2016
Indian Lake	Reconstruction				unknown at this time - pending study	
	Post-tension anchors	\$ 20,000				
	Grouting	\$ 10,000				
	Inlet gates	\$ 5,000				
<b>Construction &amp; Capital Improvement</b>						
Conklingville	Supplemental Geotechnical Phase II Subsurface Investigation					Bid: March 2015; Const. August 2015
	Spillway Reconstruction		\$ 1,047,685		Ice sluice, spillway, foundation grouting	Bid: Feb 2015; Const. July 2015
	Ice Sluice			\$ 1,060,354		Bid: Feb 2017; Const. July 2017
	Grouting					Bid: Feb 2018; Const. July 2018
	Resurfacing					
	Construction Observation	\$ 92,000		\$ 73,000		
	Warning Sirens				Supplement 09-12 Warning Siren budget of \$31	Bid: Feb 2018; Const. July 2018
Indian Lake	Reconstruction				unknown at this time - pending study	
	Post-tension anchors			\$ 300,000		
	Grouting			\$ 240,000		
	Inlet gates			\$ 180,000		
	Piezometers					
<b>Maintenance/Repair</b>						
Conklingville						
Indian Lake						
SFO	Office Roof Replacement	\$ 30,000				
<b>Miscellaneous Equipment</b>						
Conklingville						
<b>Security</b>						
Conklingville						
<b>Safety</b>						

RESERVOIR FACILITY MAINTENANCE, REPAIR, ENGINEERING & OPERATION BUDGET 2015 - 2018

FINAL DRAFT

Hudson River Area

Bonded Projects #1

6/12/2015 11:18

Bonded Projects #2

Category	Item	2015-2016	2016-2017	2017-2018	Comments	Work Schedule
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Conklingville

Annual Total		\$ 244,000	\$ 1,073,685	\$ 1,909,354		
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Budget Total				\$ 3,227,039		
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GB		\$ 6,000	\$ 6,000	\$ 6,000		
Conklingville		\$ 1,220,685	\$ 20,000	\$ 1,183,354		
Indian Lake		\$ 35,000		\$ 720,000		
SFO		\$ 30,000				
		\$ 1,291,685	\$ 26,000	\$ 1,909,354		
				\$ 3,227,039		

RESERVOIR FACILITY MAINTENANCE, REPAIR, ENGINEERING & OPERATION BUDGET 2015 - 2018

FINAL DRAFT

Black River Area

Bonded Projects #1

6/12/2015 11:18

Bonded Projects #2

Category	Item	2015-2016	2016-2017	2017-2018	Comments
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Training/Education

Engineering Studies

Stillwater	7th Part 12 Safety Inspection	\$ 25,000			
Sixth lake					
Old Forge					
Hawkinsville	Engineering Assessment -			\$ 50,000	

Construction & Capital Improvement

Stillwater	Refueling Station	\$ 8,000			250 gal gas & diesel; containment, pumps; fire supression
	DCP		\$ 5,000		
	Security Surveillance Camera	\$ 2,000			real-time observation
	Resurface Bridge -Necessary Dam Rd		\$ 5,000		resurface/seal concrete roadway
	Garage	\$ 60,000			estimate - not bid price
	Mower	\$ 6,000			John Hodgson inclusion
Sixth Lake	Seal Driveway	\$ 3,000			John Hodgson inclusion
	Reconstruction				15-'18 budget / discharge capacity - to DEC Regs
	Final Design Engineering	\$ 75,000			
	Construction Observation				Increase spillway discharge capacity / improve d/s slope stability (anticipated to begin July 2018)
Old Forge	Security Surveillance Camera	\$ 2,000			real-time observation, non capitalized item
	Reconstruction				
Hawkinsville	Alternatives Study	\$ 25,000			Study remediation alternatives / discharge, strengthening
	Final Design Engineering	\$ 35,000			Selected alternative design
	Construction Observation			\$ 600,000	concrete repair & resurfacing, replace 24" gate
	Construction Observation			\$ 40,000	improve spillway stability, add spillway capacity
	DCP		\$ 5,000		
Hawkinsville	Security Surveillance Camera	\$ 2,000			real-time observation, non capitalized item
	Dam Reconstruction / Spillway Remediation				
	Phase II Engineering	\$ 69,500	\$ 15,000		
	Construction Observation		\$ 800,000		embankment, spillway, outlet gate

Maintenance/Repair

Stillwater

RESERVOIR FACILITY MAINTENANCE, REPAIR, ENGINEERING & OPERATION BUDGET 2015 - 2018

FINAL DRAFT

Black River Area

Bonded Projects #1

6/12/2015 11:18

Bonded Projects #2

Category	Item	2015-2016	2016-2017	2017-2018	Comments
	Repair Gatehouse roof	\$ 10,000			contracted work
	Trash Rack Cleaning	\$ 5,000		\$ 5,000	
	Sixth Lake				
	Old Forge				
	Trash Rack Cleaning	\$ 5,000		\$ 5,000	
	Hawkinsville				
<b>Miscellaneous Equipment</b>					
	Stillwater				
<b>Security</b>					
	Stillwater				
	Security Surveillance Camera	\$ 3,000	\$ 3,000	\$ 3,000	internet connection at facilities /annual, non capitalized items
<b>Safety</b>					
	Stillwater				
	Underwater surveillance camera	\$ 2,000			real-time observation, non capitalized item
Annual Total		\$ 337,500	\$ 893,000	\$ 703,000	
Budget Total				\$ 1,933,500	