

Department of Energy

Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT PROGRAM

February 21, 2020

In reply refer to: FOIA #BPA-2020-00406-F

Douglas J. Albright Actuation Test Equipment Company 3393 Eddie Road Winnebago, IL 61088 Email: <u>DudleyDevices@Aol.com</u>

Dear Mr. Albright,

The Bonneville Power Administration (BPA) has received your request for agency records made under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). BPA received your records request on January 6, 2020, and has assigned your request a tracking number of BPA-2020-00406-F. Please use that tracking number in any correspondence with the agency regarding your FOIA request.

Request

"...information regarding the annual total generation in MWHr and dollars for all FCRPS [Federal Columbia River Power System] power plants and the amount of spilling and where it is happening that is mandated by the Court... [including] ...the overview numbers or a few pages in a brief report...[and you now seek the financial impact of the spill, not solely the physical amount of spill.]"

Clarification

You indicated, via email on January 24, 2020, that for the agency's response, BPA may calculate that requested information using publicly available actual market prices applied to the physical spill amounts, which will provide you with a sense of the monetary cost of this spill.

Acknowledgement

BPA has reviewed your request and clarification and determined that they fulfill all of the criteria of a proper request under the FOIA and Department of Energy (DOE) FOIA regulations at Title 10, Code of Federal Regulations, Part 1004.

Response

Referencing the agency's response to your prior FOIA request BPA 2018-01598-F for related Columbia River spill data (attached for reference), the agency has again conducted searches in the agency's Long Term Power Planning offices and Revenue Requirement, Repayment & Financial Strategy offices. The records provided via FOIA request BPA 2018-01598-F are again responsive to your current request, BPA-2020-00406-F. Additionally, and specifically responsive to your current request, the accompanying updated record "BPA Fish and Wildlife Costs", in the row labeled Total Foregone Revenues and Power Purchases, shows the total annual cost of hydro system operations for fish and wildlife. That total includes, but is not limited to, spill operations for anadromous fish. BPA does not calculate the actual cost of spill separately from the overall cost of hydro system operations for fish and wildlife. Consequently, BPA does not have the portion of those annual costs, attributable to spill alone, available.

Lastly, you inquired, via emails exchanged with my staff, about publicly available agency-related information and conversion calculations related to climate change and carbon capture. The most responsive agency information available can be accessed at the following internet link:

https://www.bpa.gov/p/Generation/Hydro/Pages/Climate-Change-FCRPS-Hydro.aspx

Fees

There are no fees associated with the agency's response to your FOIA request.

Certification

Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the search and information release described above. Your FOIA request BPA-2020-00406-F is now closed with the responsive agency information provided.

Appeal

The adequacy of the search may be appealed within 90 calendar days from your receipt of this letter pursuant to 10 C.F.R. § 1004.8. Appeals should be addressed to:

Director, Office of Hearings and Appeals HG-1, L'Enfant Plaza U.S. Department of Energy 1000 Independence Avenue, S.W. Washington, D.C. 20585-1615

The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal by e-mail to OHA.filings@hq.doe.gov, including the phrase "Freedom of Information Appeal" in the subject line. (The Office of Hearings and Appeals prefers to receive appeals by email.) The appeal must contain all the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either (1) in the district where you reside, (2) where you have your principal place of business, (3) where DOE's records are situated, or (4) in the District of Columbia.

You may contact BPA's FOIA Public Liaison, Jason Taylor, at 503.230.3537, jetaylor@bpa.gov, or at the address on this letter header, for any further assistance and to discuss any aspect of your request. Additionally you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows:

Office of Government Information Services National Archives and Records Administration 8601 Adelphi Road-OGIS College Park, Maryland 20740-6001 E-mail: ogis@nara.gov Phone: 202-741-5770 Toll-free: 1-877-684-6448 Fax: 202-741-5769

Questions about this communication may be directed to James King, CorSource Technology Group LLC, at jjking@bpa.gov or 503.230.7621.

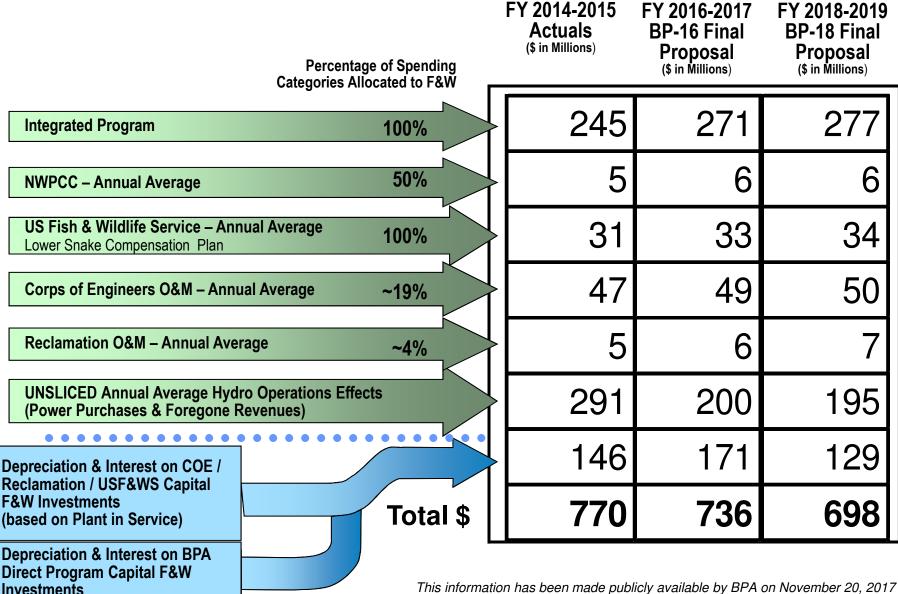
Sincerely,

Canfille

Candice D. Palen Freedom of Information/Privacy Act Officer

The responsive agency information accompanies this communication; the response to your prior and related FOIA request BPA-2020-00255-F (Albright – CLOSED) is also attached for reference.

Total Annual Average Cost of BPA Fish & Wildlife Actions



and contains information not reported in agency financial statements.

Total Cost of BPA Fish & Wildlife Actions

COST ELEMENT	1978- 1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	3 2014	2015	2016	2017	2018	2019	Since 1
CAPITAL INVESTMENTS ^{1/}																																									
BPA_FISH AND WILDLIFE						10.2	8.0	4.7	7.7	8.3	16.2	17.7	11.2	17.3	20.5	32.5	26.0	28.1	22.0	14.7	13.9	16.5	6.1	11.6	8.5	12.2	35.4	35.2	25.5	27.4	40.0	90.2	5	57.5 5	j2.1 3	7.4 2	1.4 1E	6.0 5	5.4 30	1.7 2'	2.3
BPA SOFTWARE DEVELOPMENT COSTS						-		-														-			-		0.9	1.0	1.3	0.6	1.2	0.8		0.4	0.0	0.1	1.4 1	2	1.4 (1.8 (0.0
ASSOCIATED PROJECTS (FEDERAL HYDRO)	30.0	17.9	61.7	55.1	9.0	46.4	9.1	78.6	7.6	5.3	4.5	4.0	0.9	85.8	39.4	39.3	45.1	(42.6)		14.1	47.0	6.2	8.8	68.4	75.9	53.8	360.0	60.4	37.3	135.7	56.4	103.0	11	14.5 10	03.6 101	1.7 8	1.4 34	.1 5'	58.9 51	1.8 55	5.5
TOTAL CAPITAL INVESTMENTS	30.0	17.9	61.7	55.1	9.0	56.6	17.1	83.3	15.3	13.6	20.7	21.7	12.1	103.1	59.9	71.8	71.1	(14.5)	22.0	28.8	60.9	22.7	14.9	80.0	84.4	66.0	396.3	96.6	64.2	163.7	97.6	193.9	17	2.3 15	55.7 139	9.2 104	4.1 51	.4 6	5.6 83	3.2 77	7.9
PROGRAM EXPENSES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																										
PA DIRECT FISH AND WILDLIFE PROGRAM	2.3	2.3	4.6	9.1	19.6	15.9	19.6	5 22.2	18.8	23.0	32.8	33.0	67.0	49.6	55.9	71.4	68.5	82.2	104.9	108.2	108.2	101.1	137.1	140.7	137.9	135.8	137.9	139.5	148.9	177.9	199.6	221.1	24	18.9 23	39.0 23	1.8 258	8.2 258	8.1 254	54.7 258	3.7 240	0.4
SH & WILDLIFE SOFTWARE EXPENSE COSTS																																			0.2	ე.ვ	J.1 (.0	0.0 0	J.1 (0.0
IPPLEMENTAL MITIGATION PROGRAM EXPENSES 2/	-	-	-		-	-	-	-	-	-	-		-		-		, I					2.9	7.1	6.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	J.O C	.0.	0.0 (J.0 (0.0
IMBURSABLE/DIRECT-FUNDED PROJECTS ⁹			-			-		-				-	-																												
O & M LOWER SNAKE RIVER HATCHERIES		0.5	1.0	2.2	3.6	5.4	4.9	5.8	5.1	7.6	8.3	8.7	11.2	11.2	12.4	12.7	11.5	11.8	11.4	13.0	12.4	12.7	14.9	15.1	17.3	17.2	20.1	19.3	19.4	20.8	23.3	24.5	2	22.0 2	28.7 31	1.0 30	0.9 28	J.6 2'	26.0 31	.4 2'	.6.7
O & M CORPS OF ENGINEERS	15.0	5.4	7.6	9.1	10.0	11.4	15.8	3 20.7	10.5	12.3	11.5	11.8	13.3	14.0	16.9	17.8	18.2	18.9	18.5	19.9	19.7	23.1	28.2	30.3	32.3	32.5	31.8	32.9	34.4	34.3	36.5	40.3	4	11.1 3	39.2 41	7.8 46	6.4 48	J.2 4 ⁷	16.8 47	7.5 48	8.9
O & M BUREAU OF RECLAMATION			-			-		-				-	-	1.2	1.3	1.3	1.5	1.5	2.7	2.6	1.8	3.0	3.8	3.1	3.9	3.9	4.5	3.9	4.3	4.5	5.2	5.0		5.3	5.6	6.6	2.6 F	.0.	7.0 f	i.5	8.7
NW POWER AND CONSERVATION COUNCIL ALLOCATED @ 50%	-	0.2	2.9	2.9	2.4	3.1	3.0	3.2	3.4	3.7	3.6	3.8	3.9	4.1	4.3	4.3	4.2	3.7	3.7	3.4	3.7	3.7	4.0	4.0	3.7	4.3	4.3	4.2	4.1	4.7	4.7	4.5		4.6	5.0	4.9	4.9 5	.4	5.4 5	i.5	5.6
SUBTOTAL (REIMB/DIRECT-FUNDED)	15.0	6.1	11.5	14.2	16.0	19.9	23.7	29.7	19.0	23.6	23.4	24.3	28.4		34.9				36.4					52.6	57.2		60.7	60.3	62.2	64.3	69.7	74.3	7	73.0 7	78.5 90	0.3 84	4.9 88	.2 8	35.2 89	9.9 89	9.9
TOTAL OPERATING EXPENSES	17.3	8.4	16.1	23.3	35.6	35.8	43.3	51.9	37.8	46.6	56.2	57.3	95.4	80.1	90.8	107.5	103.9	118.1	141.3	147.1	145.8	146.5	195.1	199.8	202.9	193.7	198.6	199.7	211.1	242.1	269.3	295.3	32	21.9 317	7.70 322.	.40 343.	.17 346.3	34 339.	9.93 348.6	65 330.	0.30
OGRAM RELATED FIXED EXPENSES 4	-	-	-			-					-						ı																								
INTEREST EXPENSE	15.0	6.4	9.2	12.1	12.7	15.3	17.1	22.2	24.3	24.5	26.0	29.2	31.4	40.6	46.1	44.9	51.1	52.4	48.9	49.4	48.4	49.1	48.5	49.9	53.3	56.4	53.4	76.0	76.9	78.7	80.5	79.2	8	30.6 8	39.1 8	3.4 89	J.2 85	5.6 58	58.6 41	.0 3/	.9.7
AMORTIZATION EXPENSE			-			0.1	0.5	5 0.8	1.1	1.7	2.4	3.6	4.8	5.5	6.8	8.5	10.6	12.4	14.1	15.3	16.1	16.8	17.2	17.4	17.5	17.4	17.4	22.9	24.4	24.6	25.0	28.3	3	30.2 3	35.7 3	8.7 4	1.3 42	2.5 4 [°]	12.5 43	3.4 45	5.1
DEPRECIATION EXPENSE	9.0	2.4	3.2	3.8	3.9	4.3	4.5	5.5	5.6	5.7	5.9	5.4	5.7	7.5	8.4	10.2	11.4	11.5	11.1	11.4	11.8	12.3	12.5	13.2	14.6	15.9	16.7	14.0	14.9	16.7	18.0	19.6	2	20.7 1	/8.6 1	9.2 20	J.1 20	J.1 2 ^r	.0.3 20	0.8 21	.1.0
TOTAL FIXED EXPENSES	24.0	8.8	12.4	15.9	16.6	19.7	22.1	28.5	31.0	31.9	34.3	38.2	41.9	53.6	61.3	63.6	73.1	76.3	74.1	76.1	76.3	78.2	78.2	80.5	85.4	89.7	87.5	112.9	116.2	120.0	123.5	127.2	13	31.5 14	43.4 141	1.3 15	0.6 148	.2 12	21.4 105	5.1 105	5.8
GRAND TOTAL PROGRAM EXPENSES	41.3	17.2	28.5	39.2	52.2	55.5	65.4	80.4	68.8	78.5	90.5	95.5	137.3	133.7	152.1	171.1	177.0	194.4	215.4	223.2	222.1	224.7	273.3	280.3	288.3	283.4	286.1	312.7	327.3	362.1	392.8	422.5	45	53.4 46	61.1 463	3.7 493	3.7 494	4.6 461	61.3 453	3.7 436	.6.1
FORGONE REVENUES AND POWER PURCHASES													-																												
DREGONE REVENUES	-	3.0	14.0	1.0	8.0	27.0	19.0	9.0	10.0	15.0	15.0	15.0	23.0	45.0	62.0	7.1	81.7	107.8	116.5	197.8	193.1	115.9	12.6	79.2	21.7	182.1	397.4	282.6	273.5	142.8	99.4	156.7	15	52.2 13	35.5 122	2.7 19	5.8 76	6.6 9	9.6 2	2.9 174	4.4
																	, I																								
PA POWER PURCH. FOR FISH ENHANCEMENT	-	-	-	-	12.0	17.0	74.0) 11.0	40.0	40.0	40.0	40.0	59.0	104.0	111.7	63.5			5.4	47.6	64.8	1,389.6	147.8	171.1	191.0	110.8	168.2		274.9	240.3	310.1	70.7	3	38.5 8	85.8 196	0.2	.5 50	.3 (2/		4.3 177	
TOTAL FOREGONE REVENUES AND POWER PURCHASES	-		14.0			44.0			50.0													1,505.5							548.5	383.1	409.5					8.9 263				7.2 352	
TOTAL PROGRAM EXPENSES, FOREGONE REVENUES, & POWER PURCHASES	41.3	20.2	42.5	40.2	72.2	99.5	158.4	100.4	118.8	133.5	145.5	150.5	219.3	282.7	325.8	241.7	258.7	302.2	337.3	468.6	480.0	1,730.2	433.7	530.6	501.0	576.3	851.7	716.0	875.8	745.3	802.3	649.9	9 6	44.1 6	582.4 78	32.6 75	57.0 621	1.5 45	50.4 480	0.9 78	88.1
CREDITS	-	-	-	-		<u> </u>					-	-	-	-																							_			_	_
)(10)(C)	-	-	-	-	-						-	-	-	-	-	(45.2)	(25.5)	(29.7)	(35.7)	(46.0)	(50.4)	(336.6)	(66.4)	(73.6)	(77.0)	(57.7)	(76.4)	(66.1)	(100.5)	(99.5)	(122.8)	(85.3)) (7	77.0) (8	<u>i4.1) (10</u>	3.9) (7	.7) (72	.6) (5	3.7) (70	.1) (9/	3.2)
SH COST CONTINGENCY FUND	-	-	-	-	-			-	-		-	-	-	-		-	<u> </u>		-		-	(240.0)		(78.7)	-	-	-	-	-	-	-	-		-	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u></u>		-
TOTAL CREDITS	-	-	-	-	-											(45.2)	(25.5)	(29.7)	(35.7)			(583.1)			(77.0)	(57.7)	(76.4)	(66.1)	(100.5)	(99.5)	(122.8)	(85.3)) (7	(7.0)	84.1) (103	3 9) (73	7.7) (72	2.6) (53	53.7) (70	0.1) (98	8.2)

1/ Capital Investments include both BPA's direct Fish and Wildlife Program capital investments, funded by BPA's Treasury borrowing, and "Associated Projects", which include capital investments at Corps of Engineers' and Bureau of Reclamation projects, funded by appropriations and repaid by BPA. The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment at corps of Engineers' and Bureau of Reclamation projects, funded by appropriations and repaid by BPA. The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment at corps of Engineers' and Bureau of Reclamation projects, funded by appropriations and repaid by BPA. The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment that was never actually placed into service. The annual expenses associated with these investments are included in "Program-Related Fixed Expenses", below.

2/ Includes High Priority and Action Plan Expenses and other supplemental programs.

3/ "ReimbursableDirect-Funded Projects" includes the portion of costs BPA pays to or on behalf of other entities that is determined to be for fish and wildlife purposes. 4/ "Fixed Expenses" include depreciation, amortization and interest on investments on the Corps of Engineers" projects, and amortization and interest on the investments associated with BPA's direct Fish and Wildlife Program.

Total Cost of BPA Fish & Wildlife Actions

COST ELEMENT	1978-1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990 199	91 19	92 1993	1994	1995	1996	1997	1998	1999	2000	2001	2002 20	03 2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	1980 through 2017
CAPITAL INVESTMENTS 1																																					
BPA FISH AND WILDLIFE	-					10.2	8.0	4.7	7.7	8.3	16.2 1	17.7	11.2 1	.3 20	.5 32.5	26.0	28.1	22.0	14.7	13.9	16.5	6.1	11.6 8	.5 12.2	2 35.4	35.2	25.5	27.4	40.0	90.2	57.5	52.1	37.4	21.4	16.0	5.4	757
BPA_SOFTWARE DEVELOPMENT COSTS						-	-																		0.9	1.0	1.3	0.6	1.2	0.8	0.4	0.0	0.1	1.4	1.2	1.4	10
ASSOCIATED PROJECTS (FEDERAL HYDRO)	30.0	17.9	61.7	55.1	9.0	0 46.4	9.1	78.6	7.6	5.3	4.5	4.0	0.9 8	i.8 39	.4 39.3	45.1	(42.6)		14.1	47.0	6.2	8.8	68.4 7	.9 53.8	360.0	60.4	37.3	135.7	56.4	103.0	114.5	103.6	101.7	81.4	34.1	58.9	2,018
TOTAL CAPITAL INVESTMENTS	30.0	17.9	61.7	55.1	9.0	0 56.6	3 17.1	83.3	15.3	13.6	20.7 2	21.7	12.1 103	L1 59	.9 71.8	71.1	(14.5)	22.0	28.8	60.9	22.7	14.9	80.0 84	.4 66.0	396.3	96.6	64.2	163.7	97.6	193.9	172.3	155.7	139.2	104.1	51.4	65.6	2,786
PROGRAM EXPENSES			-	-	-		-																														
BPA DIRECT FISH AND WILDLIFE PROGRAM	2.3	2.3	4.6	9.1	19.6	6 15.9	9 19.6	22.2	18.8	23.0	32.8 3	33.0	67.0 49	.6 55	.9 71.4	68.5	82.2	104.9	108.2	108.2	101.1	137.1	40.7 13	.9 135.8	B 137.9	139.5	148.9	177.9	199.6	221.1	248.9	239.0	231.8	258.2	258.1	254.7	4,087
FISH & WILDLIFE SOFTWARE EXPENSE COSTS																																0.2	0.3	0.1	0.0	0.0	1
SUPPLEMENTAL MITIGATION PROGRAM EXPENSES 21																					2.9	7.1	6.5	.8 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	24
REIMBURSABLE/DIRECT-FUNDED PROJECTS 2							-																														
O & M LOWER SNAKE RIVER HATCHERIES		0.5	1.0	2.2	3.6	6 5.4	4.9	5.8	5.1	7.6	8.3	8.7	11.2 1	.2 12	.4 12.7	11.5	11.8	11.4	13.0	12.4	12.7	14.9	15.1 1	.3 17.4	2 20.1	19.3	19.4	20.8	23.3	24.5	22.0	28.7	31.0	30.9	28.6	26.0	533
O & M CORPS OF ENGINEERS	15.0	5.4	7.6	9.1	10.0	0 11.4	15.8	20.7	10.5	12.3	11.5 1	11.8	13.3 14	1.0 16	.9 17.8	18.2	18.9	18.5	19.9	19.7	23.1	28.2	30.3 3	.3 32.5	5 31.8	32.9	34.4	34.3	36.5	40.3	41.1	39.2	47.8	46.4	48.2	46.8	924
O & M BUREAU OF RECLAMATION						-	-							.2 1	.3 1.3	1.5	1.5	2.7	2.6	1.8	3.0	3.8	3.1	.9 3.9	9 4.5	3.9	4.3	4.5	5.2	5.0	5.3	5.6	6.6	2.6	6.0	7.0	92
NW POWER AND CONSERVATION COUNCIL ALLOCATED @ 50%		0.2	2.9	2.9	2.4	4 3.1	3.0	3.2	3.4	3.7	3.6	3.8	3.9	.1 4	.3 4.3	4.2	3.7	3.7	3.4	3.7	3.7	4.0	4.0	.7 4.3	3 4.3	4.2	4.1	4.7	4.7	4.5	4.6	5.0	4.9	4.9	5.4	5.4	144
SUBTOTAL (REIMB/DIRECT-FUNDED)	15.0	6.1	11.5	14.2	16.0	0 19.9	23.7	29.7	19.0	23.6	23.4 2	24.3	28.4 31	1.5 34	.9 36.1	35.4	35.9	36.4	38.9	37.6	42.5	50.9	52.6 5	.2 57.9	9 60.7	60.3	62.2	64.3	69.7	74.3	73.0	78.5	90.3	84.9	88.2	85.2	1,693
TOTAL OPERATING EXPENSES	17.3	8.4	16.1	23.3	35.6	6 35.8	43.3	51.9	37.8	46.6	56.2 5	57.3	95.4 8	.1 90	.8 107.5	103.9	118.1	141.3	147.1	145.8	146.5	195.1	99.8 20	.9 193.7	7 198.6	199.7	211.1	242.1	269.3	295.3	321.9	317.70	322.40	343.17	346.34	339.93	5,805
PROGRAM RELATED FIXED EXPENSES 4																																					
INTEREST EXPENSE	15.0	6.4	9.2	12.1	12.7	7 15.3	17.1	22.2	24.3	24.5	26.0 2	29.2	31.4 40	46	.1 44.9	51.1	52.4	48.9	49.4	48.4	49.1	48.5	49.9 5:	.3 56.4	4 53.4	76.0	76.9	78.7	80.5	79.2	80.6	89.1	83.4	89.2	85.6	58.6	1,816
AMORTIZATION EXPENSE				-		0.1	0.5	0.8	1.1	1.7	2.4	3.6	4.8	i.5 6	.8 8.5	10.6	12.4	14.1	15.3	16.1	16.8	17.2	17.4 13	.5 17.4	4 17.4	22.9	24.4	24.6	25.0	28.3	30.2	35.7	38.7	41.3	42.5	42.5	564
DEPRECIATION EXPENSE	9.0	2.4	3.2	3.8	3.9	9 4.3	4.5	5.5	5.6	5.7	5.9	5.4	5.7	.5 8	.4 10.2	11.4	11.5	11.1	11.4	11.8	12.3	12.5	13.2 14	.6 15.9	9 16.7	14.0	14.9	16.7	18.0	19.6	20.7	18.6	19.2	20.1	20.1	20.3	436
TOTAL FIXED EXPENSES	24.0	8.8	12.4	15.9	16.6	6 19.7	22.1	28.5	31.0	31.9	34.3 3	38.2	41.9 53	1.6 61	.3 63.6	73.1	76.3	74.1	76.1	76.3	78.2	78.2	80.5 8	.4 89.7	7 87.5	112.9	116.2	120.0	123.5	127.2	131.5	143.4	141.3	150.6	148.2	121.4	2,815
GRAND TOTAL PROGRAM EXPENSES	41.3	17.2	28.5	39.2	52.2	2 55.5	65.4	80.4	68.8	78.5	90.5 9	95.5 1	37.3 13	1.7 152	.1 171.1	177.0	194.4	215.4	223.2	222.1	224.7	273.3	80.3 28	.3 283.4	4 286.1	312.7	327.3	362.1	392.8	422.5	453.4	461.1	463.7	493.7	494.6	461.3	8,621
FORGONE REVENUES AND POWER PURCHASES																																					
FOREGONE REVENUES		3.0	14.0	1.0	8.0	0 27.0	19.0	9.0	10.0	15.0	15.0 1	15.0	23.0 4	i.0 62	.0 7.1	81.7	107.8	116.5	197.8	193.1	115.9	12.6	79.2 2	.7 182.1	1 397.4	282.6	273.5	142.8	99.4	156.7	152.2	135.5	122.7	195.8	76.6	9.6	3,426
BPA POWER PURCH. FOR FISH ENHANCEMENT					12.0	0 17.0	74.0	11.0	40.0	40.0	40.0 4	40.0	59.0 104	LO 111	.7 63.5			5.4	47.6	64.8	1,389.6	147.8	71.1 19	.0 110.8	168.2	120.7	274.9	240.3	310.1	70.7	38.5	85.8	196.2	67.5	50.3	(20.5)	4,343
TOTAL FOREGONE REVENUES AND POWER PURCHASES		3.0	14.0	1.0	20.0	0 44.0	93.0	20.0	50.0	55.0	55.0 5	55.0	82.0 149	.0 173	.7 70.6	81.7	107.8	121.9	245.4	257.9	1,505.5	160.4	50.3 21	.7 292.9	565.6	403.3	548.5	383.1	409.5	227.4	190.7	221.3	318.9	263.3	126.9	(10.9)) 7,769
TOTAL PROGRAM EXPENSES, FOREGONE REVENUES, & POWER PURCHASES	41.3	20.2	42.5	40.2	72.2	2 99.5	5 158.4	100.4	118.8	133.5	145.5 15	50.5 2	19.3 28	2.7 325	.8 241.7	258.7	302.2	337.3	468.6	480.0	1,730.2	433.7	30.6 50	.0 576.3	851.7	716.0	875.8	745.3	802.3	649.9	644.1	682.4	782.6	757.0	621.5	450.4	4 16,390
CREDITS							-	-				-																									
4(h)(10)(C)							-	-	-	-	-	-			(45.2	(25.5)	(29.7)	(35.7)	(46.0)	(50.4)	(336.6)		(73.6) (7	.0) (57.7	7) (76.4)	(66.1)	(100.5)	(99.5)	(122.8)	(85.3)	(77.0)	(84.1)	(103.9)	(77.7)	(72.6)	(53.7)	
FISH COST CONTINGENCY FUND				-			-	-	-		-	-	-			-	· ·				(246.5)		78.7)		-		-	-		-	-			-	-		(325)
TOTAL CREDITS This information has been made publicly available by BPA on 3/20/2018. The figures s							-					-			(45.2	(25.5)	(29.7)	(35.7)	(46.0)	(50.4)	(583.1)	(66.4) (1	52.3) (7	.0) (57.7	7) (76.4)	(66.1)	(100.5)	(99.5)	(122.8)	(85.3)	(77.0)	(84.1)	(103.9)	(77.7)	(72.6)	(53.7)) (2,189)

240.9 Total for credit calculation 53.7 Credit = 22.3% of total

11 Capital Investments include both BP/A stretc Feb and Wildlis Program capital investments, funded by BP/A: The negative amount in FY 1997 reflects a decision to reverse "plant-in-service" investment that was never actually placed into service. The annual expresse associated with these investments are included in "Program Related Freed Expresse", below.

2/ Includes High Priority and Action Plan Expenses and other supplemental programs.

3/ "Reimbursable/Direct-Funded Projects" includes the portion of costs BPA pays to or on behalf of other entities that is determined to be for fish and wildlife purposes.

4/ "Fixed Expenses" include depreciation, amortization and interest on investments on the Corps of Engineers' projects, and amortization and interest on the investments associated with BPA's direct Fish and Wildlife Program.

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

	(\$millions)												(\$	millions)				(\$millions)									
	1978-1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Net BPA F&W Costs (adjusted for Fish Credits)	41.3	20.2	42.5	40.2	72.2	99.5	158.4	100.4	118.8	133.5	145.5	150.5	219.3	282.7	325.8	196.5	233.2	272.5	301.6	422.6	429.6	1147.1	367.3	378.3	424.0	518.6	775.3	649.9
Cumulative	41.3	61.5	104.0	144.2	216.4	315.9	474.3	574.7	693.5	827.0	972.5	1123.0	1342.3	1625.0	1950.8	2147.3	2380.5	2653.0	2954.6	3377.2	3806.8	4953.9	5321.2	5699.4	6123.4	6642.1	7417.4	8067.3
Total BPA F&W Costs (not adjusted for Fish Credits	41.3	20.2	42.5	40.2	72.2	99.5	158.4	100.4	118.8	133.5	145.5	150.5	219.3	282.7	325.8	241.7	258.7	302.2	337.3	468.6	480.0	1730.2	433.7	530.6	501.0	576.3	851.7	716.0
Cumulative	41.3	61.5	104.0	144.2	216.4	315.9	474.3	574.7	693.5	827.0	972.5	1123.0	1342.3	1625.0	1950.8	2192.5	2451.2	2753.4	3090.7	3559.3	4039.3	5769.5	6203.2	6733.7	7234.7	7811.1	8662.7	9378.7
Total BPA F&W Ops Costs (not adjusted for Fish Credits	0.0	3.0	14.0	1.0	20.0	44.0	93.0	20.0	50.0	55.0	55.0	55.0	82.0	149.0	173.7	70.6	81.7	107.8	121.9	245.4	257.9	1505.5	160.4	250.3	212.7	292.9	565.6	403.3
Cumulative	0.0	3.0	17.0	18.0	38.0	82.0	175.0	195.0	245.0	300.0	355.0	410.0	492.0	641.0	814.7	885.3	967.0	1074.8	1196.7	1442.1	1700.0	3205.5	3365.9	3616.2	3828.9	4121.8	4687.4	5090.7
BPA Fish and Wildlife Credits	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	25.5	29.7	35.7	46.0	50.4	583.1	66.4	152.3	77.0	57.7	76.4	66.1
Cumulative	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	70.7	100.4	136.1	182.1	232.5	815.6	882.0	1034.3	1111.3	1169.0	1245.4	1311.5