

# BPA Capital Program Financing

Final Rate Proposal 1996 Rate Case

(\$Thousands)

|----- Cost Evaluation Period -----|----- Outyear Studies -----|

	FY 1996 <sup>2</sup>	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
<b>Bonds Issued to Treasury</b>										
<b>Bonds With 45 Year Maturities (ZABF &amp; ZADB)</b>										
<b>Capital Program Outlays:</b>										
Trans. System Development	101,400	84,814	91,888	102,407	121,653	152,777	155,950	131,538	161,383	147,268
Trans. System Replacements (Excluding Environmental Capital)	51,200	44,435	36,485	37,041	39,234	41,921	43,771	44,802	55,640	57,224
Capital Equipment	11,900	7,751	7,928	8,352	8,913	9,502	10,079	10,460	10,978	11,407
Bureau/Corps Direct Funding	39,700	17,300	13,200	36,100	51,500	56,700	60,800	39,600	15,900	15,600
Total for Bonds with 45 Year Maturities	204,200	154,300	149,500	183,900	221,300	260,900	270,600	226,400	243,900	231,500
<b>Bonds With 20 Year Maturities (ZACO)</b>										
<b>Capital Program Outlays:</b>										
Energy Conservation <sup>3</sup>	99,700	56,900	42,600	38,300	30,800	30,600	30,600	30,600	30,600	30,700
<b>Bonds With 15 Year Maturities (ZAFW)</b>										
<b>Capital Program Outlays:</b>										
Fish & Wildlife and Environmental Capital	39,000	39,200	38,200	38,500	38,900	39,400	39,700	40,200	40,600	41,200
<b>Sub-Total for Bonds Issued to Treasury</b>	<b>342,900</b>	<b>250,400</b>	<b>230,300</b>	<b>260,700</b>	<b>291,000</b>	<b>330,900</b>	<b>340,900</b>	<b>297,200</b>	<b>315,100</b>	<b>303,400</b>
<b>Current Revenues</b>										
<b>Capital Program Outlays:</b>										
Transmission Programs (Trans. Sys. Development, Trans. Sys. Replacements (Excluding Environmental Capital), Capital Equipment 100% Functionalized in Transmission)	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
Fish & Wildlife (100% Functionalized in Generation)	15,000	0	0	0	0	0	0	0	0	0
<b>Sub-Total for Current Revenues</b>	<b>30,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>
<b>Total Projected Capital Program Financing</b>	<b>372,900</b>	<b>265,400</b>	<b>245,300</b>	<b>275,700</b>	<b>306,000</b>	<b>345,900</b>	<b>355,900</b>	<b>312,200</b>	<b>330,100</b>	<b>318,400</b>

1/ Source FY 1995 Borrowing Analysis table

2/ FY 1996 - FY 2000 source from Crosswalk of Bonneville Capital Obligations to Outlays to Plant-in-Service table

**Crosswalk of Bonneville Capital Accruals to Plant-in-Service  
(Post Distribution \$ in thousands)**

	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	10-yr.Total
<b><u>Trans. System Development</u></b>											
Accruals	116,500	94,100	102,000	112,800	132,400	164,000	167,100	142,100	172,000	157,500	1,360,500
Plant-in-Service	156,100	105,300	111,600	113,000	116,600	140,400	207,000	139,000	166,800	154,100	1,409,900
<b><u>Trans. System Replacements</u></b>											
Accruals	55,700	49,300	40,500	40,800	42,700	45,000	46,900	48,400	59,300	61,200	489,800
Plant-in-Service	72,700	66,400	56,200	46,700	46,600	44,600	46,400	47,900	55,500	56,800	539,800
<b><u>Capital Equipment</u></b>											
Accruals	13,000	8,600	8,800	9,200	9,700	10,200	10,800	11,300	11,700	12,200	105,500
Plant-in-Service	13,000	8,600	8,800	9,200	9,700	10,200	10,800	11,300	11,700	12,200	105,500
<b>Total Transmission</b>											
Accruals	<b>185,200</b>	<b>152,000</b>	<b>151,300</b>	<b>162,800</b>	<b>184,800</b>	<b>219,200</b>	<b>224,800</b>	<b>201,800</b>	<b>243,000</b>	<b>230,900</b>	1,955,800
Plant-in-Service	<b>241,800</b>	<b>180,300</b>	<b>176,600</b>	<b>168,900</b>	<b>172,900</b>	<b>195,200</b>	<b>264,200</b>	<b>198,200</b>	<b>234,000</b>	<b>223,100</b>	2,055,200
<b><u>Fish &amp; Wildlife</u></b>											
Accruals	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	27,000	270,000
<b><u>Environment</u></b>											
Accruals	15,000	12,200	11,200	11,500	11,900	12,400	12,700	13,200	13,600	14,200	127,900
<b><u>Energy Resources</u></b>											
Accruals	84,300	56,900	42,600	38,300	30,800	30,600	30,600	30,600	30,600	30,700	406,000
<b><u>Associated Projects Capital 1/</u></b>											
Accruals	31,000	17,300	13,200	36,100	51,500	56,700	60,800	39,600	15,900	15,600	337,700
Total:											
Accruals	342,500	265,400	245,300	275,700	306,000	345,900	355,900	312,200	330,100	318,400	3,097,400

1/ This program provides direct funding for additions, improvements, and replacements of the existing U.S. Bureau of Reclamation and Army Corps of Engineers hydroelectric projects in the Pacific Northwest. A provision clarifying Bonneville's authority to direct fund these activities was included in the 1992 National Energy Strategy Act.

## Notes:

- Accruals: FY 1996 are from BPA's FY 1997 Congressional Budget.  
FY 1997 to FY 2001 are from the March 1996 cost reductions.  
FY 2002-FY 2005 are from the Offices' July 1995 budget submittals.
  - Plant-in-Service FY 1996-FY 2003 are from the March 19 & 20 crosswalk through plant-in-service reports for Transmission Development and System Replacements.  
FY 2004-FY 2005 for Transmission Development and System Replacements are from the 1996 Supplemental Rate Proposal, Rev. Req. Study, Vol.1, p. 229.
- Capital Equipment PIS is equal to accruals each year.

# FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS) PROJECTED CAPITAL FUNDING REQUIREMENTS

Final Rate Proposal 1996 Rate Case  
(Annual Outlays in Millions of Dollars)

	FY93 <sup>1</sup>	FY94 <sup>1</sup>	FY95 <sup>1</sup>	FY96	FY 97	FY98	FY 99	FY 2000	FY 2001	Total FYs 93-2001
<b><u>BPA Funding Requirements</u></b>										
Transmission System Development	204.5	120.7	103.0	101.4	84.8	91.9	102.4	121.6	152.8	1,083.1
System Replacements, incl. Environmental Investment	130.7	75.7	68.0	63.2	56.6	47.7	48.5	51.1	54.3	595.8
Capital Equipment	17.3	13.9	17.0	11.9	7.8	7.9	8.4	9.0	9.5	102.7
	352.5	210.3	188.0	176.5	149.2	147.5	159.3	181.7	216.6	1,781.6
Energy Conservation <sup>4</sup>	98.1	113.7	73.6	99.7	56.9	42.6	38.3	30.8	30.6	584.3
Fish and Wildlife 1995 Bio Opinion Investment <sup>3</sup>	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	60.0
Fish and Wildlife Base Investment	17.3	20.5	32.5	17.0	17.0	17.0	17.0	17.0	17.0	172.3
Bureau/Corp Investments - Direct Funded by BPA	0.0	18.4	25.3	39.7	17.3	13.2	36.1	51.5	56.7	258.2
	17.3	38.9	57.8	66.7	44.3	40.2	63.1	78.5	83.7	490.5
<b>TOTAL BPA FUNDING REQUIREMENTS</b>	<b>467.9</b>	<b>362.9</b>	<b>319.4</b>	<b>342.9</b>	<b>250.4</b>	<b>230.3</b>	<b>260.7</b>	<b>291.0</b>	<b>330.9</b>	<b>2,856.4</b>
<b><u>Corps &amp; Bureau Investment Funded by Appropriations<sup>5</sup></u></b>										
1995 Bio Opinion Investment <sup>3</sup>	0.0	0.0 <sup>6</sup>	0.0	0.9	50.5	137.1	0.0	13.4	336.9	538.8
Additions/Replacements Base	230.5	43.9	91.8	181.2	88.0	27.4	53.2	44.4	83.0	843.4
	230.5	43.9	91.8	182.1	138.5	164.5	53.2	57.8	419.9	1,382.2
<b>TOTAL FEDERAL FUNDING REQUIREMENTS</b>	<b>698.4</b>	<b>406.8</b>	<b>411.2</b>	<b>525.0</b>	<b>388.9</b>	<b>394.8</b>	<b>313.9</b>	<b>348.8</b>	<b>750.8</b>	<b>4,238.6</b>
<b><u>Non-Federal Project Investments</u></b>										
WNP-2: Debt-Financed Additions/Replacements <sup>7</sup>	48.4	39.5	29.4	15.2	9.0	9.8	12.0	11.8	10.5	185.6
WNP-2: Revenue-Financed Additions/Replacements <sup>7</sup>	34.8	36.6	24.8	23.2	21.1	16.7	11.5	21.1	39.7	229.5
Other Capitalized Contracts <sup>8</sup>	0.0	0.1	107.2	36.4	0.0	0.0	0.0	0.0	0.0	143.7
<b>TOTAL NON-FEDERAL FUNDING REQUIREMENTS</b>	<b>83.2</b>	<b>76.2</b>	<b>161.4</b>	<b>74.8</b>	<b>30.1</b>	<b>26.5</b>	<b>23.5</b>	<b>32.9</b>	<b>50.2</b>	<b>558.8</b>
<b>TOTAL FCRPS FUNDING REQUIREMENTS</b>	<b>781.6</b>	<b>483.0</b>	<b>572.6</b>	<b>599.8</b>	<b>419.0</b>	<b>421.3</b>	<b>337.4</b>	<b>381.7</b>	<b>801.0</b>	<b>4,797.4</b>

PROJECTED CAPITAL FUNDING REQUIREMENTS

**FOOTNOTES:**

- <sup>1</sup> Audited actual amounts have been used for FY 1993, 1994, 1995.
- <sup>2</sup> Anticipated to be financed by bonds issued to Treasury with debt service paid, in part, from Energy Service Charge revenues beginning in FY 1996.
- <sup>3</sup> The distinction between BPA Biological Opinion Investment and base investment will disappear as the integrated planning process between NMFS, NWPPC, and BPA occurs.
- <sup>4</sup> Reflects plant in service, including IDC, not expenditures.
- <sup>5</sup> Capital investment projections for fish are the same as in BPA's supplemental proposal except for changes in IDC due to IDC rate provisions in the BPA Appropriations Refinancing Act.
- <sup>6</sup> Includes \$40 million reduction (accounting adjustment) associated with Libby turbines that were previously transferred erroneously to Plant-in-Service (Doc. Vol. 1, Chapter 9)
- <sup>7</sup> Reflects BPA's WNP-2 Capital Funding Policy: Long term investments (useful life of 10 years or more) are financed by Supply System debt, with the remaining WNP-2 investment financed via BPA current revenues. FYs 96 & 97 are to be funded through reserve fund free-ups from WNP-1 & 3.

**<sup>8</sup> OTHER CAPITALIZED CONTRACTS DETAIL**

Total principal, including capitalized financing costs, in the year placed in service

	FY 1994	FY 1995	FY 1996
Northern Wasco		32.7	
CARES Conservation		37.9	
Emerald PUD	0.1	2.4	
CARES Wind			36.4
Cowlitz Falls		12.0	
Tacoma Conservation		22.2	
<b>TOTAL</b>	<b>0.1</b>	<b>107.2</b>	<b>36.4</b>

**FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)  
CAPITAL FUNDING REQUIREMENTS**

Changes Between 1993 Final Rate Proposal and 1996 Final Rate Proposal Projections  
(Annual Outlays in Millions of Dollars)

	FY93	FY94	FY95	FY96	FY 97	FY98	FY 99	FY 2000	FY 2001	Total FYs 93-2001
<b><u>BPA Funding Requirements</u></b>										
Transmission System Development	(0.9)	(19.4)	(23.2)	(79.4)	(171.8)	(199.0)	(129.3)	(66.7)	(123.9)	(813.6)
System Replacements	25.1	(11.0)	(24.4)	(27.7)	(34.4)	(46.1)	(49.5)	(51.1)	(58.6)	(277.7)
Capital Equipment	3.3	(2.6)	4.5	(0.4)	(4.3)	(5.4)	(5.6)	(5.0)	(5.2)	(20.7)
	27.5	(33.0)	(43.1)	(107.5)	(210.5)	(250.5)	(184.4)	(122.8)	(187.7)	(1,112.0)
Energy Conservation	1.5	(56.1)	(90.9)	(63.3)	(112.0)	(141.5)	(150.4)	(172.8)	(187.7)	(973.2)
Fish and Wildlife 1995 Bio Opinion Investment	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	60.0
Fish and Wildlife Base investment	(9.5)	(6.4)	3.0	(19.1)	(14.3)	(10.8)	(8.4)	(5.7)	(1.3)	(72.5)
Bureau/Corp Investments - Direct Funded by BPA	0.0	(4.6)	(0.3)	16.5	5.8	11.3	36.1	51.5	56.7	173.0
	(9.5)	(11.0)	2.7	7.4	1.5	10.5	37.7	55.8	65.4	160.5
<b>TOTAL BPA FUNDING REQUIREMENTS</b>	<b>19.5</b>	<b>(100.1)</b>	<b>(131.3)</b>	<b>(163.4)</b>	<b>(321.0)</b>	<b>(381.5)</b>	<b>(297.1)</b>	<b>(239.8)</b>	<b>(310.0)</b>	<b>(1,924.7)</b>
<b><u>Corps &amp; Bureau Investment Funded by Appropriations</u></b>										
1995 Bio Opinion Investment	0.0	0.0	0.0	0.9	50.5	137.1	0.0	13.4	336.9	538.8
Additions/Replacements Base	95.2	(34.4)	8.3	95.2	(0.6)	(63.8)	(40.8)	(52.4)	(16.7)	(10.0)
	95.2	(34.4)	8.3	96.1	49.9	73.3	(40.8)	(39.0)	320.2	528.8
<b>TOTAL FEDERAL FUNDING REQUIREMENTS</b>	<b>114.7</b>	<b>(134.5)</b>	<b>(123.0)</b>	<b>(67.3)</b>	<b>(271.1)</b>	<b>(308.2)</b>	<b>(337.9)</b>	<b>(278.8)</b>	<b>10.2</b>	<b>(1,395.9)</b>
<b><u>Non-Federal Project Investments</u></b>										
WNP-2: Third Party Debt-Financed Additions/Replacements	16.8	6.8	0.0	13.6	9.0	9.8	12.0	11.8	10.5	90.3
WNP-2: Revenue-Financed Additions/Replacements	34.6	23.2	8.5	(16.2)	(22.3)	(24.0)	(34.7)	(26.5)	(9.3)	(66.7)
Other Capitalized Contracts	(21.7)	(24.8)	85.8	16.0	(20.8)	(21.7)	(23.5)	(29.9)	(40.1)	(80.7)
<b>TOTAL NON-FEDERAL FUNDING REQUIREMENTS</b>	<b>29.7</b>	<b>5.2</b>	<b>94.3</b>	<b>13.4</b>	<b>(34.1)</b>	<b>(35.9)</b>	<b>(46.2)</b>	<b>(44.6)</b>	<b>(38.9)</b>	<b>(57.1)</b>
<b>TOTAL FCRPS FUNDING REQUIREMENTS</b>	<b>144.4</b>	<b>(129.3)</b>	<b>(28.7)</b>	<b>(53.9)</b>	<b>(305.2)</b>	<b>(344.1)</b>	<b>(384.1)</b>	<b>(323.4)</b>	<b>(28.7)</b>	<b>(1,453.0)</b>

**PROJECTED CAPITAL FUNDING  
REQUIREMENTS**

**FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)  
CAPITAL FUNDING REQUIREMENTS**

Changes Between 1996 Supplemental Rate Proposal and 1996 Final Rate Proposal Projections  
(Annual Outlays in Millions of Dollars)

	FY93	FY94	FY95	FY96	FY 97	FY98	FY 99	FY 2000	FY 2001	<u>Total</u> FYs 93-2001
<u>BPA Funding Requirements</u>										
Transmission System Development	0.0	0.0	4.5	(6.5)	(12.3)	(3.5)	(41.9)	(4.2)	(57.9)	(121.8)
System Replacements	0.0	0.0	(16.9)	(4.2)	(0.5)	(10.0)	(14.1)	(13.6)	(16.1)	(75.4)
Capital Equipment	0.0	0.0	3.6	0.3	(2.1)	(2.1)	(2.5)	(2.2)	(2.8)	(7.8)
	0.0	0.0	(8.8)	(10.4)	(14.9)	(15.6)	(58.5)	(20.0)	(76.8)	(205.0)
Energy Conservation	0.0	0.0	(55.9)	(5.7)	(18.2)	(21.3)	(10.0)	(1.8)	(0.3)	(113.2)
Fish and Wildlife 1995 Bio Opinion Investment	0.0	0.0	(5.0)	0.0	0.0	0.0	5.0	5.0	5.0	10.0
Fish and Wildlife Base investment	0.0	0.0	11.0	0.0	0.0	0.0	(5.0)	(5.0)	(5.0)	(4.0)
Bureau/Corp Investments - Direct Funded by BPA	0.0	0.0	(19.2)	8.5	(1.1)	0.0	0.0	0.0	0.0	(11.8)
	0.0	0.0	(13.2)	8.5	(1.1)	0.0	0.0	0.0	0.0	(5.8)
<b>TOTAL BPA FUNDING REQUIREMENTS</b>	0.0	0.0	(77.9)	(7.6)	(34.2)	(36.9)	(68.5)	(21.8)	(77.1)	(324.0)
<u>Corps &amp; Bureau Investment Funded by Appropriations</u>										
1995 Bio Opinion Investment <sup>1</sup>	0.0	0.0	0.0	(0.8)	(0.8)	(4.9)	0.0	(0.5)	(21.1)	(28.1)
Additions/Replacements Base	0.0	0.0	(51.1)	81.3	(8.5)	(9.0)	(3.7)	(2.5)	(6.1)	0.4
	0.0	0.0	(51.1)	80.5	(9.3)	(13.9)	(3.7)	(3.0)	(27.2)	(27.7)
<b>TOTAL FEDERAL FUNDING REQUIREMENTS</b>	0.0	0.0	(129.0)	72.9	(43.5)	(50.8)	(72.2)	(24.8)	(104.3)	(351.7)
<u>Non-Federal Project Investments</u>										
WNP-2: Third Party Debt-Financed Additions/Replacements	0.0	0.0	(8.3)	0.0	0.0	0.0	0.0	0.0	0.0	(8.3)
WNP-2: Revenue-Financed Additions/Replacements	0.0	0.0	(11.1)	0.0	0.0	0.0	0.0	0.0	0.0	(11.1)
Other Capitalized Contracts	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
<b>TOTAL NON-FEDERAL FUNDING REQUIREMENTS</b>	0.0	0.0	(18.4)	0.0	0.0	0.0	0.0	0.0	0.0	(18.4)
<b>TOTAL FCRPS FUNDING REQUIREMENTS</b>	0.0	0.0	(147.4)	72.9	(43.5)	(50.8)	(72.2)	(24.8)	(104.3)	(370.1)

**PROJECTED CAPITAL FUNDING  
REQUIREMENTS**

<sup>1</sup> Capital investment projections for fish are the same as in BPA's supplemental proposal except for changes in IDC due to IDC rate provisions in the BPA Appropriations Refinancing Act.

**FEDERAL COLUMBIA RIVER POWER SYSTEM (FCRPS)  
CAPITAL FUNDING REQUIREMENTS**

Changes Between 1996 Initial Rate Proposal and 1996 Final Rate Proposal Projections  
(Annual Outlays in Millions of Dollars)

	FY93	FY94	FY95	FY96	FY 97	FY98	FY 99	FY 2000	FY 2001	Total FYs 93-2001
<u>BPA Funding Requirements</u>										
Transmission System Development	0.0	0.0	(18.8)	(29.0)	(139.0)	(55.9)	(101.8)	(10.4)	(35.2)	(390.1)
System Replacements	0.0	0.0	(16.9)	(14.7)	(24.1)	(35.3)	(39.0)	(40.0)	(39.9)	(209.9)
Capital Equipment	0.0	0.0	3.6	(1.4)	(4.7)	(4.8)	(4.8)	(6.0)	(4.9)	(23.0)
	0.0	0.0	(32.1)	(45.1)	(167.8)	(96.0)	(145.6)	(56.4)	(80.0)	(623.0)
Energy Conservation	0.0	0.0	(62.3)	8.5	(32.1)	(48.6)	(53.2)	(55.7)	(54.4)	(297.8)
Fish and Wildlife 1995 Bio Opinion Investment	0.0	0.0	(5.0)	0.0	0.0	0.0	5.0	5.0	5.0	10.0
Fish and Wildlife Base investment	0.0	0.0	9.5	(2.4)	1.6	2.0	2.0	0.0	0.0	12.7
Bureau/Corp Investments - Direct Funded by BPA	0.0	0.0	(0.8)	14.4	0.4	(2.9)	5.0	5.1	5.8	27.0
	0.0	0.0	3.7	12.0	2.0	(0.9)	12.0	10.1	10.8	49.7
<b>TOTAL BPA FUNDING REQUIREMENTS</b>	0.0	0.0	(90.7)	(24.6)	(197.9)	(145.5)	(186.8)	(102.0)	(123.6)	(871.1)
<u>Corps &amp; Bureau Investment Funded by Appropriations</u>										
1995 Bio Opinion Investment	0.0	0.0	(0.2)	(0.8)	(127.8)	(118.7)	(102.3)	(0.5)	(11.5)	(361.8)
Additions/Replacements Base	0.0	0.0	(2.7)	81.3	(8.5)	(9.0)	(3.7)	(2.5)	(6.1)	48.8
	0.0	0.0	(2.9)	80.5	(136.3)	(127.7)	(106.0)	(3.0)	(17.6)	(313.0)
<b>TOTAL FEDERAL FUNDING REQUIREMENTS</b>	0.0	0.0	(93.6)	55.9	(334.1)	(273.2)	(292.7)	(105.0)	(141.2)	(1,184.0)
<u>Non-Federal Project Investments</u>										
WNP-2: Third Party Debt-Financed Additions/Replacements	0.0	0.0	(8.3)	(7.8)	(12.0)	(11.2)	(9.0)	(9.2)	(10.5)	(68.0)
WNP-2: Revenue-Financed Additions/Replacements	0.0	0.0	(11.1)	(24.0)	(27.8)	(20.3)	(32.8)	(40.4)	(2.2)	(158.7)
Other Capitalized Contracts	0.0	0.0	33.7	(32.7)	0.0	0.0	0.0	0.0	0.0	1.0
<b>TOTAL NON-FEDERAL FUNDING REQUIREMENTS</b>	0.0	0.0	14.3	(64.5)	(39.8)	(31.5)	(41.8)	(49.6)	(12.7)	(225.7)
<b>TOTAL FCRPS FUNDING REQUIREMENTS</b>	0.0	0.0	(79.3)	(8.6)	(373.9)	(304.8)	(334.6)	(154.6)	(153.9)	(1,409.7)

**PROJECTED CAPITAL FUNDING  
REQUIREMENTS**

**Association of Transmission Construction  
Funded by Bonds 1/  
FY 1977 - FY 1990  
(\$ Thousands)**

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
<u>Fiscal Year</u>	<u>Plant in Service</u> 2/	<u>Amount Funded by Bonds</u>	<u>Amount of Bond Sales</u>	<u>Amount Outstanding</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Year Due</u>	<u>Refinancing</u>	
								<u>Date</u>	<u>Amount</u>
(Con't)		100,000	100,000	0	8.35	5	1992		
		11,409	50,000	0	9.55	45	2032		
		<u>167,781</u>							
1988	96,878	38,591	150,000	0	9.50	45	2033	10/31/93	100,000 10/
		58,287	40,000	0	9.90	45	2033	5/31/94	50,000 11/
		<u>96,878</u>							
1989	211,811	91,713	75,000	75,000	8.95	10	1999		
		40,000							
		75,000							
		5,098							
		<u>211,811</u>							
1990	88,894	44,902	50,000	50,000	9.25	40	2030		
		43,992 12/							
		<u>88,894</u>							

- 1/ These investments have an estimated average service life of 45 years and a maximum repayment period of 45 years.
- 2/ BPA's Summary Financial data, Analysis of Funds Returned to the U.S Treasury and Cash Amortization Table, change in Total column from previous year.
- 3/ Funded by appropriations (Reference WP-89-E-BPA-01A1, Documentation for the Revenue Requirement Study - Volume 1, 1989 Rate Proposal, page 195).
- 4/ Refinanced on 7/31/87 with \$ 95,000 issued at 9.55%, 30 year term, due in 2017.
- 5/ Refinanced on 2/29/88 with \$43,700 issued at 9.50%, 30 year term, due in 2018.
- 6/ Refinanced on 8/31/92 with \$107,800 issued at 6.60%, 8 year term, due in 2000.
- 7/ Refinanced on 8/31/92 with \$107,700 issued at 7.25%, 15 year term, due in 2007.
- 8/ (See 11/)
- 9/ Refinanced on 4/30/92 with \$80,000 issued at 6.20%, 3 year term, due in 1995; and \$28,300 issued at 7.00%, 5 year term, due in 1997.
- 10/ Refinanced on 10/31/93 with \$108,400 issued at 6.85%, 40 year term, due in 2033.
- 11/ (And 8/) Refinanced on 5/31/94 with \$97,100 issued at 7.1%, 4 year term, due in 1998.
- 12/ See Association of Transmission Construction Functionalized to Transmission (Table C-2a)

**Table C-2a  
Association of Transmission Construction  
Functionalized to Transmission  
Funded by Bonds 1/  
FY 1991 - FY 1995  
(\$ Thousands)**

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
<u>Fiscal Year</u>	<u>Plant in Service</u> 2/	<u>Amount Funded by Bonds</u> 3/	<u>Amount of Bond Sales</u>	<u>Amount Outstanding</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Year Due</u>	<u>Refinancing</u>	
								<u>Date</u>	<u>Amount</u>
1990		43,992 3/							
1991	139,891	10,153 <u>129,738</u> 139,891	54,145	0	7.55	4	1995		
1992	214,883	17,783 50,000 <u>147,100</u> 214,883	147,521 50,000 150,000	147,521 50,000 150,000	8.80 7.00 8.13	40 5 40	2032 1997 2032		
1993	209,541	2,900 50,000 88,984 67,657 <u>209,541</u>	50,000 88,984 130,000 100,000 110,000	50,000 88,984 130,000 100,000 110,000	6.05 8.35 7.80 7.50 8.95	5 40 40 40 40	1998 2033 2033 2033 2033		
1994	239,060	62,343 100,000 35,722 40,995 <u>239,060</u>	35,722 50,000 50,000 55,000	35,722 50,000 50,000 0	6.85 7.05 8.20 7.65	40 40 40 5	2034 2034 2034 1999		
1995	286,668	69,005 50,000 50,000 55,000 55,000 <u>7,663</u> 286,668	55,000 41,491 4/ 65,000 4/	55,000 41,491 65,000	8.35 7.70 7.70	6 30 30	2001 2025 2025		

1/ These investments have an estimated average service life of 45 years and a maximum repayment period of 45 years.

2/ BPA's Summary Financial data, Analysis of Funds Returned to the U.S Treasury and Cash Amortization Table, change in Total column from previous year.

3/ See Association of Transmission Construction (Table C-2).

4/ These bonds were issued to finance actual capital expenditures associated with plant that has yet to be placed in service. The association of these bonds with plant will occur when construction is complete. (FY 1996)



**Table C-6a**  
**Association of Environment Investment**  
**Funded by Bonds**  
**FY 1995**  
**( \$ Thousands)**

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
<u>Fiscal</u> <u>Year</u>	<u>Plant</u> <u>in</u> <u>Service</u> 1/	<u>Amount</u> <u>Funded by</u> <u>Bonds</u>	<u>Amount</u> <u>of Bond</u> <u>Sales</u>	<u>Amount</u> <u>Outstanding</u>	<u>Interest</u> <u>Rate</u>	<u>Term</u>	<u>Year</u> <u>Due</u>	<u>Refinancing</u>	
								<u>Date</u>	<u>Amount</u>
1995	16,014	16,014	16,014	16,014	7.20	15	2010		

1/ BPA's Summary Financial data, Analysis of Funds Returned to the U. S. Treasury and Cash Amortization Table, change in Total column from previous year.

**Table C-6**  
**Association of Fish and Wildlife Investment**  
**Funded by Bonds**  
**FY 1985 -1995**  
**(\$ Thousands)**

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
<u>Fiscal Year</u>	<u>Plant in Service</u> <sup>1/</sup>	<u>Amount Funded by Bonds</u>	<u>Amount of Bond Sales</u>	<u>Amount Outstanding</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Year Due</u>	<u>Refinancing Date</u>	<u>Refinancing Amount</u>
1985	4,318	4,318							
1986	5,590	5,590							
1987	4,710	4,710							
1988	7,726	7,726							
1989	8,267	2,656	25,000	25,000	8.95	10	1999		
		5,611							
		8,267							
1990	16,193	16,193							
1991	17,680	17,680	50,000	50,000	7.95	5	1996		
1992	11,178	10,516							
		662							
		11,178							
1993	17,338	17,338	20,000	20,000	6.95	15	2008		
1994	20,487	20,000	20,000	0	7.65	5	1999		
		487							
		20,487							
1995	32,486	18,499	18,986	18,986	7.20	15	2010		
		13,987 <sup>2/</sup>							
		32,486							

1/ BPA's Annual Report, Balance Sheet, change from previous year.

2/ These bonds were issued to finance actual capital expenditures associated with plant that has yet to be placed in service. The association of these bonds with plant will occur when construction is complete.

**TABLE C-4**  
**Association of Conservation Investment 1/**  
**Funded by Bonds**  
**FY 1982 -1995**  
**(\$ Thousands)**

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
<u>Fiscal Year</u>	<u>Plant in Service</u>	<u>2/ Amount Funded by Bonds</u>	<u>Amount of Bond Sales</u>	<u>Amount Outstanding</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Year Due</u>	<u>Refinancing Date</u>	<u>Amount</u>
1982	61,357	61,357							
1983	204,092	78,643 125,449 204,092	140,000	0	12.20	20	2003		
1984	66,783	24,551 42,232 66,783	150,000	0	13.05	20	2004	9/30/89 9/30/89	60,000 3/ 60,000 4/
1985	103,067	7,768 50,000 45,299 103,067	50,000	0	10.15	5	1990		
1986	97,618	4,701 75,000 17,917 97,618	50,000 50,000	50,000 0	8.15 7.80	10 5	1996 1991		
1987	65,958	32,083 33,875 65,958	75,000 50,000	0 0	9.30 8.35	20 5	2007 1992	7/31/92	75,000 5/
1988	52,485	52,485	90,000	0	9.90	20	2008		
1989	37,167	3,640 33,527 37,167	40,000	40,000	8.55	20	2009		
1990	33,776	6,473 27,303 33,776							
1991	45,593	38,697 6,896 45,593							
1992	74,668	27,104 47,564 74,668	100,000	100,000	7.14	15	2007		
1993	97,910	2,436 50,000 40,000 5,474 97,910	50,000 50,000 40,000	50,000 50,000 40,000	8.05 7.40 6.75	20 20 20	2013 2013 2013		
1994	113,488	44,526 50,000 18,962 113,488	50,000 50,000	50,000 50,000	6.75 7.10	20 4	2014 1998		
1995	73,507	66,038 7,469 6/ 73,507	85,000	85,000	7.50	20	2015		

1/ These investments have an estimated average service life of 20 years.  
2/ BPA's Annual Report, Balance Sheet, change from previous year.  
3/ Refinanced on 9/30/89 with \$66,000 issued at 8.60%, 6 year term, due In 1995.  
4/ Refinanced on 9/30/89 with \$66,000 issued at 8.65%, 13 year term, due In 2002.  
5/ Refinanced on 7/31/92 with \$80,200 issued at 5.80%, 5 year term, due In 1997.  
6/ This amount not yet financed through long-term bonds.

**Table C-8**  
**BPA Projected Federal Borrowing**  
**FY 1995 - 2001 1/**  
**(\$ Thousands)**

<u>FY Year</u>	<u>Description</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Total Borrowing</u>	<u>Generation Borrowing</u>	<u>Transmission Borrowing</u>
1995	Construction 2/	8.35	6	55,000	0	55,000
	Construction 3/	7.70	30	50,000	8,509	41,491
	Construction 4/	7.70	30	65,000	0	65,000
	Fish, Wildlife & Environmental 5/	7.39	15	44,200	26,500	17,700
	Conservation 6/	7.20	20	85,000	85,000	0
	BOR/COE 7/, 8/	7.50	20	35,000	35,000	0
				334,200	155,009	179,191
1996	Construction 9/	7.24	45	164,500	15,798	148,702
	Fish, Wildlife & Environmental	6.95	15	39,000	24,000	15,000
	Conservation	6.70	15	30,000	30,000	0
	Conservation 10/	7.05	20	69,700	69,700	0
	BOR/COE 7/	7.84	45	39,700	39,700	0
			342,900	179,198	163,702	
1997	Construction	6.93	45	137,000	12,670	124,330
	Fish, Wildlife & Environmental	6.66	15	39,200	27,000	12,200
	Conservation	6.60	20	56,900	56,900	0
	BOR/COE 7/	6.93	45	17,300	17,300	0
			250,400	113,870	136,530	
1998	Construction	6.72	45	136,300	14,883	121,417
	Fish, Wildlife & Environmental	6.40	15	36,200	25,000	11,200
	Conservation	6.50	20	42,600	42,600	0
	BOR/COE 7/	6.72	45	13,200	13,200	0
			228,300	95,683	132,617	
1999	Construction	6.61	45	147,818	14,097	133,721
	Fish, Wildlife & Environmental	6.38	15	38,200	27,000	11,200
	Conservation	6.46	20	38,300	38,300	0
	BOR/COE 7/	6.61	45	36,100	36,100	0
			260,418	115,497	144,921	
2000	Construction	6.46	45	169,800	14,374	155,426
	Fish, Wildlife & Environmental	6.36	15	38,900	27,000	11,900
	Conservation	6.39	20	30,800	30,800	0
	BOR/COE 7/	6.46	45	51,500	51,500	0
			291,000	123,674	167,326	
2001	Construction	6.40	45	204,200	12,505	191,695
	Fish, Wildlife & Environmental	6.31	15	39,400	27,000	12,400
	Conservation	6.34	20	30,600	30,600	0
	BOR/COE 7/	6.40	45	56,700	56,700	0
			330,900	126,805	204,095	

1/ Projected borrowing over the cost evaluation period includes FYs 1995-01.

2/ On 1/31/95, \$55 million construction bond was issued, callable at par.

3/ On 7/31/95, \$50 million construction bond was issued.

4/ On 8/31/95, \$65 million construction bond was issued.

5/ On 8/31/95, \$35 million fish/wildlife bond was issued.

6/ On 5/31/95, \$85 million conservation bond was issued.

7/ Bonds issued for this purpose are construction.

8/ On 5/31/95, \$35 million COE/BOR bond was issued.

9/ On 1/31/96, \$60 million construction bond was issued.

10/ On 1/31/96, \$30 million conservation bond was issued.