

Exhibit 6
Sch. 9
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Unrecovered Investment Analysis, Corrected, w/Right Inputs
Calculation of ADIT Balances
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	Recovery of Investment Incl. Debt AFUDC Am	(Sch3 Ln18*Sch5 Ln10)	\$0	\$0	\$219	\$478	\$390	\$552	\$889	\$1,100	\$1,006	\$1,067	\$1,217	\$1,128
2	State Tax Depreciation	Sch. 7	\$476	\$335	\$340	\$344	\$348	\$898	\$852	\$806	\$755	\$703	\$651	\$598
3	State Tax Timing Differences	Ln. (2-1)	\$476	\$335	\$121	(\$134)	(\$42)	\$346	(\$36)	(\$295)	(\$251)	(\$364)	(\$566)	(\$530)
4	State Income Tax Rate	AK Stat.	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%
5	State Tax Effect	Ln. (3*4)	\$45	\$32	\$11	(\$13)	(\$4)	\$32	(\$3)	(\$28)	(\$24)	(\$34)	(\$53)	(\$50)
6	State ADIT Balance	Ln. 5 + Prior Ln. 6	\$45	\$76	\$88	\$75	\$71	\$104	\$100	\$72	\$49	\$15	(\$39)	(\$88)
7	Recovery of Investment Incl. Debt AFUDC Am	Ln. 1	\$0	\$0	\$219	\$478	\$390	\$552	\$889	\$1,100	\$1,006	\$1,067	\$1,217	\$1,128
8	Depreciation of TEFRA Adjustment	Sch. 10, Ln. 6	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1	\$1	\$1	\$2	\$1
9	Book Depreciation after TEFRA Adjustment	Ln (7-8)	\$0	\$0	\$219	\$478	\$390	\$552	\$888	\$1,099	\$1,005	\$1,065	\$1,216	\$1,126
10	Federal Tax Depreciation	Sch. 8	\$476	\$904	\$836	\$796	\$758	\$718	\$681	\$640	\$594	\$534	\$470	\$401
11	Tax Effect of State Timing Differences	Ln. 5	\$45	\$32	\$11	(\$13)	(\$4)	\$32	(\$3)	(\$28)	(\$24)	(\$34)	(\$53)	(\$50)
12	Total Federal Tax Deductions	Ln (10-11)	\$431	\$872	\$825	\$809	\$762	\$685	\$684	\$668	\$618	\$568	\$523	\$451
13	Federal Tax Timing Differences	Ln (12-9)	\$431	\$872	\$606	\$331	\$372	\$133	(\$204)	(\$431)	(\$387)	(\$497)	(\$692)	(\$675)
14	Federal Income Tax Rate	IRC	48.00%	48.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%	39.95%	34.00%
15	Federal Tax Effect	Ln (13*14)	\$207	\$419	\$279	\$152	\$171	\$61	(\$94)	(\$198)	(\$178)	(\$229)	(\$277)	(\$230)
16	FASB 96/109 Adjustment	Cum. Ln.13 * Change Ln.14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$74	\$32
17	Amortization Basis for FASB 96/109 Adjustment	Prior Ln.17 + Ln.16 - Prior Ln.18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$74	\$77
18	Amortization of FASB 96/109 Adjustment	Ln. 17*Sch. 3 Ln.3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29	\$45
19	Federal ADIT Balance	Prior Ln. 19 + Ln. 15 - Ln.18	\$207	\$625	\$904	\$1,056	\$1,227	\$1,288	\$1,195	\$997	\$818	\$590	\$284	\$9
20	Total State And Federal ADIT Balances	Ln (6+19)	\$252	\$702	\$992	\$1,131	\$1,298	\$1,392	\$1,295	\$1,069	\$867	\$604	\$245	(\$79)

Unrecovered Investment Analysis, Corrected, w/Right Inputs Calculation of ADIT Balances (millions \$)											Exhibit Sch. 9 Page 2 of 2
Line No.	Description	Source	1989	1990	1991	1992	1993	1994	1995	1996	
1	Recovery of Investment Incl. Debt AFUDC Am	(Sch3 Ln18*Sch5 Ln10)	\$885	\$188	\$157	\$113	\$50	\$43	\$41	\$16	
2	State Tax Depreciation	Sch. 7	\$545	\$496	\$456	\$222	\$171	\$117	\$64	\$60	
3	State Tax Timing Differences	Ln. (2-1)	(\$340)	\$308	\$299	\$109	\$120	\$74	\$22	\$44	
4	State Income Tax Rate	AK Stat.	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	
5	State Tax Effect	Ln. (3*4)	(\$32)	\$29	\$28	\$10	\$11	\$7	\$2	\$4	
6	State ADIT Balance	Ln. 5 + Prior Ln. 6	(\$120)	(\$91)	(\$63)	(\$53)	(\$42)	(\$35)	(\$33)	(\$29)	
7	Recovery of Investment Incl. Debt AFUDC Am	Ln. 1	\$885	\$188	\$157	\$113	\$50	\$43	\$41	\$16	
8	Depreciation of TEFRA Adjustment	Sch. 10, Ln. 6	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
9	Book Depreciation after TEFRA Adjustment	Ln (7-8)	\$883	\$188	\$157	\$113	\$50	\$43	\$41	\$16	
10	Federal Tax Depreciation	Sch. 8	\$339	\$286	\$241	\$200	\$149	\$97	\$44	\$42	
11	Tax Effect of State Timing Differences	Ln. 5	(\$32)	\$29	\$28	\$10	\$11	\$7	\$2	\$4	
12	Total Federal Tax Deductions	Ln (10-11)	\$371	\$257	\$213	\$189	\$138	\$90	\$42	\$38	
13	Federal Tax Timing Differences	Ln (12-9)	(\$512)	\$68	\$56	\$76	\$87	\$46	\$1	\$22	
14	Federal Income Tax Rate	IRC	34.00%	34.00%	34.00%	34.00%	35.00%	35.00%	35.00%	35.00%	
15	Federal Tax Effect	Ln (13*14)	(\$174)	\$23	\$19	\$26	\$31	\$16	\$0	\$8	
16	FASB 96/109 Adjustment	Cum. Ln. 13 * Change Ln. 14	\$0	\$0	\$0	\$0	\$5	\$0	\$0	\$0	
17	Amortization Basis for FASB 96/109 Adjustment	Prior Ln. 17 + Ln. 16 - Prior Ln. 18	\$32	\$0	\$0	\$0	\$5	\$0	\$0	\$0	
18	Amortization of FASB 96/109 Adjustment	Ln. 17*Sch. 3 Ln. 3	\$32	\$0	\$0	\$0	\$5	\$0	\$0	\$0	
19	Federal ADIT Balance	Prior Ln. 19 + Ln. 15 - Ln. 18	(\$197)	(\$173)	(\$154)	(\$128)	(\$102)	(\$86)	(\$86)	(\$78)	
20	Total State And Federal ADIT Balances	Ln (6+19)	(\$317)	(\$265)	(\$218)	(\$181)	(\$144)	(\$121)	(\$119)	(\$107)	

Unrecovered Investment Analysis, Corrected, w/Right Inputs
TEFRA Adjustment to ADIT
(millions \$)

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Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	Tax Depreciation Basis before TEFRA Adjustr	Sch. 7	\$8,323	\$117	\$99	\$128	\$54	\$65	\$87	\$53	\$29	\$20	\$33	\$10
2	Tax Depreciation Basis Reduction	IRC	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	5.00%	5.00%	0.00%	0.00%	0.00%
3	TEFRA Adjustment	Ln (1*2)	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$3	\$1	\$0	\$0	\$0
4	TEFRA Adjustment Balance (BOY)	Ln. 3 + Prior Ln. 7	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$6	\$7	\$5	\$4	\$2
5	Depreciation Factor	Sch. 3 Ln.3	0.00%	0.00%	2.57%	5.70%	4.88%	7.24%	12.52%	17.66%	19.49%	25.52%	39.12%	58.64%
6	Depreciation of TEFRA Adjustment	Ln (4*5)	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1	\$1	\$1	\$2	\$1
7	TEFRA Adjustment Balance (EOY)	Ln (4-6)	\$0	\$0	\$0	\$0	\$0	\$0	\$4	\$5	\$5	\$4	\$2	\$1

Unrecovered Investment Analysis, Corrected, w/Right Inputs
TEFRA Adjustment to ADIT
(millions \$)

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Line No.	Description	Source	1989	1990	1991	1992	1993	1994	1995	1996
1	Tax Depreciation Basis before TEFRA Adjustm	Sch. 7	\$37	\$82	\$206	\$72	\$47	\$45	\$37	\$30
2	Tax Depreciation Basis Reduction	IRC	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	TEFRA Adjustment	Ln (1*2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	TEFRA Adjustment Balance (BOY)	Ln. 3 + Prior Ln. 7	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Depreciation Factor	Sch. 3 Ln.3	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
6	Depreciation of TEFRA Adjustment	Ln (4*5)	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	TEFRA Adjustment Balance (EOY)	Ln (4-6)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Income Tax Allowance on Required Return **Appropriate Rate of Return and Capital Structure In Carriers' Unrecovered Investment Analysis With Conservative Assumptions Corrected (millions \$)**

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1	Return on Equity	Sch. 2 Ln. 9	\$362	\$772	\$789	\$836	\$906	\$823	\$618	\$566	\$434	\$319
2	AFUDC Amortization	Sch. 5 Ln. 5	\$0	\$0	\$52	\$112	\$91	\$129	\$208	\$257	\$234	\$247
3	Depreciation of TEFRA Adjustment	Sch. 10 Ln. 6	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1	\$1	\$1
4	Amortization of FASB 96/109 Adjustment	Sch. 9 Ln. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Federal Taxable Income	Lns. (1+2+3-4)	\$362	\$772	\$840	\$948	\$997	\$953	\$827	\$825	\$670	\$567
6	Net to Tax Multiplier, Federal Taxes	Sch 9 Ln 14/(1-Ln14)	92.3%	92.3%	85.2%	85.2%	85.2%	85.2%	85.2%	85.2%	85.2%	85.2%
7	Net Federal Income Tax Allowance	Lns (5 * 6 - 4)	\$334	\$712	\$716	\$808	\$850	\$811	\$704	\$702	\$571	\$483
8	State Taxable Income	Lns. (1+2+7)	\$697	\$1,484	\$1,556	\$1,756	\$1,847	\$1,764	\$1,531	\$1,526	\$1,239	\$1,049
9	Net to Tax Multiplier, State Taxes Rat	Sch.9 Ln 4/(1-Ln 4)	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%
10	State Income Tax Allowance	Ln. (8*9)	\$72	\$154	\$161	\$182	\$192	\$183	\$159	\$158	\$129	\$109
11	Total Income Tax Allowance	Ln. (7+10)	\$407	\$866	\$877	\$990	\$1,041	\$994	\$863	\$861	\$699	\$592

Income Tax Allowance on Required Return **Appropriate Rate of Return and Capital Structure In Carriers' Unrecovered Investment Analysis With Conservative Assumptions Corrected (millions \$)**

Line No.	Description	Source	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1	Return on Equity	Sch. 2 Ln. 9	\$232	\$149	\$72	\$33	\$27	\$24	\$17	\$15	\$14	\$15
2	AFUDC Amortization	Sch. 5 Ln. 5	\$282	\$257	\$182	\$2	\$6	\$4	\$3	\$2	\$2	\$2
3	Depreciation of TEFRA Adjustment	Sch. 10 Ln. 6	\$2	\$1	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Amortization of FASB 96/109 Adjustment	Sch. 9 Ln. 18	\$29	\$45	\$32	\$0	\$0	\$0	\$5	\$0	\$0	\$0
5	Federal Taxable Income	Lns. (1+2+3-4)	\$487	\$363	\$223	\$35	\$34	\$29	\$15	\$17	\$16	\$17
6	Net to Tax Multiplier, Federal Taxes	Sch 9 Ln 14/(1-Ln14)	66.5%	51.5%	51.5%	51.5%	51.5%	51.5%	53.8%	53.8%	53.8%	53.8%
7	Net Federal Income Tax Allowance	Lns (5 * 6 - 4)	\$295	\$142	\$83	\$18	\$17	\$15	\$4	\$9	\$8	\$9
8	State Taxable Income	Lns. (1+2+7)	\$809	\$548	\$337	\$53	\$51	\$44	\$23	\$27	\$24	\$26
9	Net to Tax Multiplier, State Taxes Ratio	Sch.9 Ln 4/(1-Ln 4)	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%	10.4%
10	State Income Tax Allowance	Ln. (8*9)	\$84	\$57	\$35	\$6	\$5	\$5	\$2	\$3	\$2	\$3
11	Total Income Tax Allowance	Ln. (7+10)	\$379	\$199	\$118	\$24	\$23	\$19	\$6	\$12	\$11	\$12

**Carrier Property Balance
(FERC Form 6 Basis)** **Appropriate Rate of Return and Capital Structure In Carriers' Unrecovered
Investment Analysis With Conservative Assumptions Corrected (millions \$)**

Line No	Account	Starting Balance	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1	Land - New Construction Exp.		\$16,667	\$0,060	\$0,000	\$0,041	\$0,000	\$0,000	\$0,085	\$0,360	\$0,000	\$0,000
2	CWIP - New Construction Exp.		\$41,820	(\$13,943)	\$3,337	(\$16,992)	(\$0,002)	\$4,810	(\$14,482)	(\$13,368)	(\$2,891)	\$1,365
3	Grand Total - New Construction Exp.	\$7,741	\$1,421,909	\$98,292	\$99,947	\$106,470	\$49,178	\$65,145	\$69,675	\$37,833	\$25,976	\$21,410
4	Grand Total - Acquired Property		\$0,000	\$0,000	\$0,000	\$169,963	\$0,000	\$0,000	\$0,000	\$0,000	\$0,000	\$0,000
5	Grand Total - Credits for Retirements		(\$29,485)	(\$7,017)	(\$11,876)	(\$164,555)	(\$2,235)	(\$11,506)	(\$24,383)	(\$12,502)	(\$13,786)	(\$3,073)
6	Grand Total - Other Adjustments		(\$0,087)	\$64,544	(\$4,319)	\$0,829	(\$1,450)	(\$13,156)	(\$3,969)	(\$4,295)	\$0,011	\$0,025
7	Land - EOY Balance		\$16,580	\$16,678	\$16,678	\$16,567	\$17,002	\$17,002	\$16,997	\$17,260	\$17,256	\$17,257
8	CWIP - EOY Balance		\$41,820	\$23,611	\$27,889	\$29,387	\$29,077	\$33,385	\$15,214	\$3,719	\$0,896	\$2,260
9	Grand Total - EOY Balance		\$9,133,410	\$9,289,229	\$9,372,981	\$9,485,687	\$9,531,179	\$9,571,661	\$9,612,984	\$9,634,021	\$9,646,223	\$9,664,584
10	Capitalized Interest - EOY Balance	\$1,216	\$1,215,571	\$1,215,571	\$1,215,571	\$1,215,571	\$1,215,111	\$1,215,111	\$1,215,111	\$1,214,314	\$1,214,064	\$1,214,010
11	Depreciation - Retirements		\$0,000	(\$5,362)	(\$5,219)	(\$16,936)	(\$2,496)	(\$13,606)	(\$10,908)	(\$5,365)	(\$13,176)	(\$2,960)
12	Working Capital		\$57,237	\$29,204	\$36,005	\$34,175	\$39,228	\$36,954	\$28,694	\$32,583	\$33,679	\$28,582

* All data from RG3-143-C, WP3, Sch. 12-13

**Carrier Property Balance
(FERC Form 6 Basis)**

**Appropriate Rate of Return and Capital Structure In Carriers' Unrecovered
Investment Analysis With Conservative Assumptions Corrected (millions \$)**

Line No	Account	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1	Land - New Construction Exp.	\$0.029	\$0.015	\$0.000	\$0.542	\$0.000	\$0.000	\$0.000	\$0.904	\$0.000	\$0.000
2	CWIP - New Construction Exp.	(\$0.693)	\$7.323	\$11.002	\$74.176	(\$61.795)	\$1.297	(\$9.538)	\$6.897	\$19.730	\$23.336
3	Grand Total - New Construction Exp.	\$31.866	\$17.285	\$47.588	\$155.563	\$140.715	\$70.767	\$36.263	\$51.185	\$55.690	\$51.890
4	Grand Total - Acquired Property	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$81.202
5	Grand Total - Credits for Retirement	(\$16.704)	(\$13.059)	(\$5.157)	(\$4.399)	(\$53.184)	(\$15.679)	(\$10.992)	(\$10.327)	(\$3.509)	(\$115.573)
6	Grand Total - Other Adjustments	\$0.000	\$0.071	(\$0.063)	\$0.007	(\$0.011)	\$0.006	(\$0.002)	\$0.000	\$0.000	\$0.000
7	Land - EOY Balance	\$17.287	\$17.302	\$17.302	\$17.787	\$17.787	\$17.808	\$17.809	\$18.713	\$18.713	\$18.715
8	CWIP - EOY Balance	\$1.567	\$8.891	\$19.894	\$94.344	\$32.275	\$33.572	\$24.034	\$30.931	\$50.663	\$73.998
9	Grand Total - EOY Balance	\$9,679.746	\$9,684.044	\$9,726.411	\$9,877.583	\$9,965.102	\$10,020.196	\$10,045.466	\$10,086.325	\$10,138.506	\$10,156.025
10	Capitalized Interest - EOY Balance	\$1,213.863	\$1,213.813	\$1,213.804	\$1,213.795	\$1,213.551	\$1,213.520	\$1,213.515	\$1,213.505	\$1,213.504	\$1,204.649
11	Depreciation - Retirements	(\$16.760)	(\$12.779)	(\$3.847)	(\$3.314)	(\$57.358)	(\$13.901)	(\$8.871)	(\$7.612)	(\$2.526)	(\$89.329)
12	Working Capital	\$33.330	\$36.149	\$36.242	\$39.005	\$58.840	\$54.304	\$44.192	\$43.049	\$34.488	\$36.416

* All data from RGV-143-C, WP3, Sch. 12.

Annual Regulatory-Enforced Return Deficiency, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982
1	Appropriate DOC Revenue Requirement	Exhibit 33, Ln. 6	\$1,360	\$3,107	\$3,075	\$3,269	\$3,288	\$3,084
2	TSM Revenue Requirement	31-BWF-E; 30-BWF-E: Line 125	\$860	\$2,480	\$2,654	\$3,081	\$3,354	\$3,548
3	TSM DR&R Charges	29-ABJ-W: Horst Testimony	\$24	\$96	\$113	\$127	\$120	\$121
4	TSM Revenue Requirement, Less DR&R	Lns. 2 - 3	\$836	\$2,384	\$2,541	\$2,954	\$3,234	\$3,427
5	Regulatorily Enforced Return Deficiency (Nominal \$)	Ln. 4 - Ln. 1	(\$524)	(\$723)	(\$534)	(\$315)	(\$54)	\$343
6	Weighted Rate of Return plus Unity	1 + (Exhibit 2, col g)	1.1174	1.1219	1.1263	1.1367	1.1515	1.1498
7	Present Value Factor (1997 \$)	Product(Line 6, this year to 1996)	11.2640	10.0806	8.9853	7.9777	7.0183	6.0949
8	Return Deficiency (1997 Present Value \$)	Ln. 5 * Ln. 7	(\$5,903)	(\$7,292)	(\$4,794)	(\$2,510)	(\$379)	\$2,088

Annual Regulatory-Enforced Return Deficiency, 1977-1996
(millions \$)

Line No.	Description	Source	1983	1984	1985	1986	1987	1988
1	Appropriate DOC Revenue Requirement	Exhibit 33, Ln. 6	\$2,651	\$2,505	\$2,164	\$1,908	\$1,652	\$1,473
2	TSM Revenue Requirement	31-BWF-E; 30-BWF-E: Line 125	\$3,524	\$3,388	\$3,245	\$3,101	\$2,739	\$2,413
3	TSM DR&R Charges	29-ABJ-W: Horst Testimony	\$116	\$110	\$104	\$98	\$95	\$85
4	TSM Revenue Requirement, Less DR&R	Lns. 2 - 3	\$3,408	\$3,277	\$3,141	\$3,003	\$2,644	\$2,328
5	Regulatorily Enforced Return Deficiency (Nominal \$)	Ln. 4 - Ln. 1	\$757	\$773	\$978	\$1,095	\$992	\$855
6	Weighted Rate of Return plus Unity	1 + (Exhibit 2, col g)	1.1331	1.1394	1.1329	1.1264	1.1263	1.1284
7	Present Value Factor ('1997 \$)	Product(Line 6, this year to 1996)	5.3008	4.6782	4.1058	3.6242	3.2175	2.8567
8	Return Deficiency ('1997 Present Value \$)	Ln. 5 * Ln. 7	\$4,014	\$3,614	\$4,014	\$3,969	\$3,191	\$2,441

Annual Regulatory-Enforced Return Deficiency, 1977-1996
(millions \$)

Line No.	Description	Source	1989	1990	1991	1992	1993	1994
1	Appropriate DOC Revenue Requirement	Exhibit 33, Ln. 6	\$1,436	\$1,423	\$1,275	\$1,287	\$1,215	\$1,277
2	TSM Revenue Requirement	31-BWF-E; 30-BWF-E: Line 125	\$2,312	\$2,354	\$2,220	\$2,151	\$2,046	\$2,057
3	TSM DR&R Charges	29-ABJ-W: Horst Testimony	\$73	\$61	\$50	\$40	\$31	\$24
4	TSM Revenue Requirement, Less DR&R	Lns. 2 - 3	\$2,239	\$2,293	\$2,169	\$2,111	\$2,015	\$2,033
5	Regulatorily Enforced Return Deficiency (Nominal \$)	Ln. 4 - Ln. 1	\$803	\$870	\$894	\$824	\$800	\$756
6	Weighted Rate of Return plus Unity	1 + (Exhibit 2, col g)	1.1274	1.1288	1.1275	1.1252	1.1168	1.1207
7	Present Value Factor ('1997 \$)	Product(Line 6, this year to 1996)	2.5316	2.2455	1.9893	1.7644	1.5680	1.4040
8	Return Deficiency ('1997 Present Value \$)	Ln. 5 * Ln. 7	\$2,032	\$1,953	\$1,778	\$1,453	\$1,254	\$1,061

Annual Regulatory-Enforced Return Deficiency, 1977-1996
(millions \$)

Line No.	Description	Source	1995	1996
1	Appropriate DOC Revenue Requirement	Exhibit 33, Ln. 6	\$996	\$867
2	TSM Revenue Requirement	31-BWF-E; 30-BWF-E: Line 125	\$1,722	\$1,514
3	TSM DR&R Charges	29-ABJ-W: Horst Testimony	\$19	\$14
4	TSM Revenue Requirement, Less DR&R	Lns. 2 - 3	\$1,703	\$1,501
5	Regulatorily Enforced Return Deficiency (Nominal \$)	Ln. 4 - Ln. 1	\$706	\$634
6	Weighted Rate of Return plus Unity	1 + (Exhibit 2, col g)	1.1208	1.1178
7	Present Value Factor (1997 \$)	Product(Line 6, this year to 1996)	1.2528	1.1178
8	Return Deficiency (1997 Present Value \$)	Ln. 5 * Ln. 7	\$885	\$709

Cumulative Sum Regulatorily-Enforced Return "Deficiency", 1977-1996
(millions \$)

Line No.	Description	Source	
1	Nominal Dollar Regulatorily Enforced Return Excess	Sum, Exh. 7, Sch. 1, Ln. 5	\$9,928
2	1997 Dollar Regulatorily Enforced Return Excess	Sum, Exh. 7, Sch. 1, Ln. 8	\$13,580

Appropriate Carrier Property Balances, 1977-1996
FERC Form 6 Basis
(Millions \$)

Line No.	Description	Starting Balance	1977	1978	1979	1980	1981	1982	1983	1984	1985
1	Land - New Construction Exp.		\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	CWIP - New Construction Exp.		\$42	(\$14)	\$3	(\$17)	(\$0)	\$5	(\$14)	(\$13)	(\$3)
3	Grand Total - New Construction Exp.	\$7,741	\$1,422	\$98	\$100	\$106	\$49	\$65	\$70	\$38	\$26
4	Grand Total - Acquired Property		\$0	\$0	\$0	\$170	\$0	\$0	\$0	\$0	\$0
5	Grand Total - Credits for Retirements		(\$29)	(\$7)	(\$12)	(\$165)	(\$2)	(\$12)	(\$24)	(\$13)	(\$14)
6	Grand Total - Other Adjustments		(\$0)	\$65	(\$4)	\$1	(\$1)	(\$13)	(\$4)	(\$4)	\$0
7	Land - EOY Balance		\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17
8	CWIP - EOY Balance		\$42	\$24	\$28	\$29	\$29	\$33	\$15	\$4	\$1
9	Grand Total - EOY Balance		\$9,133	\$9,289	\$9,373	\$9,486	\$9,531	\$9,572	\$9,613	\$9,634	\$9,646
10	Capitalized Interest - EOY Balance	\$1,216	\$1,216	\$1,216	\$1,216	\$1,216	\$1,215	\$1,215	\$1,215	\$1,214	\$1,214

Data from 143-RGV-C, TAPS-RGV WP3, Schedule 12, retirements data for 1986-1996 from Supplemental Pages of Annual Reports on file

Exhibit 8
Schedule 1
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Appropriate Carrier Property Balances, 1977-1996
FERC Form 6 Basis
(Millions \$)

Line No.	Description	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
1	Land - New Construction Exp.	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$1	\$0
2	CWIP - New Construction Exp.	\$1	(\$1)	\$7	\$11	\$74	(\$62)	\$1	(\$10)	\$7	\$20
3	Grand Total - New Construction Exp.	\$21	\$32	\$17	\$48	\$156	\$141	\$71	\$36	\$51	\$56
4	Grand Total - Acquired Property	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Grand Total - Credits for Retirements	(\$3)	(\$16)	(\$13)	(\$5)	(\$4)	(\$53)	(\$16)	(\$11)	(\$10)	(\$3)
6	Grand Total - Other Adjustments	\$0	\$0	\$0	(\$0)	\$0	(\$0)	\$0	(\$0)	\$0	\$0
7	Land - EOY Balance	\$17	\$17	\$17	\$17	\$18	\$18	\$18	\$18	\$19	\$19
8	CWIP - EOY Balance	\$2	\$2	\$9	\$20	\$94	\$32	\$34	\$24	\$31	\$51
9	Grand Total - EOY Balance	\$9,665	\$9,680	\$9,684	\$9,726	\$9,878	\$9,965	\$10,020	\$10,045	\$10,086	\$10,139
10	Capitalized Interest - EOY Balance	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214

Data from 143-RGV-C, TAPS-RGV WP3, Schedule 12, retirements data for 1986-1996 from Supplemental Pages of Annual Reports on file

Exhibit 8
Schedule 1
Page 2 of 2

Parties' Positions on Working Capital, 1977-1996
(Millions \$)

Line No.	(a)	(b)	(c)	(d)
	Date	Carriers and Williams	Tesoro	Difference
		Exhibit 143-RGV-C, TAPS-RGV WP3, Sch. 13; Exhibit 189A-BEW T, BEW_R_RGV WP1 - DR 22RE, Sch. 13	30-BWF-E ('77-'83), 31-BWF-E (84-'00); Ln 83	col c - col b
1	1977	57.237	65.665	8.428
2	1978	29.204	47.508	18.304
3	1979	36.005	56.915	20.910
4	1980	34.175	57.733	23.558
5	1981	39.228	37.542	-1.686
6	1982	38.954	37.080	-1.874
7	1983	28.694	37.650	8.956
8	1984	32.583	37.921	5.338
9	1985	33.679	39.173	5.494
10	1986	28.582	37.856	9.274
11	1987	33.330	37.098	3.768
12	1988	36.149	37.071	0.922
13	1989	36.242	37.546	1.304
14	1990	39.005	37.346	-1.659
15	1991	58.840	37.482	-21.358
16	1992	54.304	37.414	-16.890
17	1993	44.192	36.685	-7.507
18	1994	43.049	37.504	-5.545
19	1995	34.488	36.684	2.196
20	1996	36.416	38.443	2.027

Cumulative Sum, column d **53.960**

TAPS Carrier Parent and Composite Carrier Parent Capital Structure 1968-1996

Line No.	Year	Hess		Arco		Exxon		Mobil		ExxonMobil		Phillips		BP	
		(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage
1	1968	69.17%	3.00%	64.86%	28.08%	81.35%	25.52%	84.33%	8.68%	0.00%	0.00%	69.72%	3.32%	81.87%	0.00%
2	1969	45.98%	3.00%	80.11%	28.08%	81.27%	25.52%	84.49%	8.68%	0.00%	0.00%	65.81%	3.32%	74.31%	0.00%
3	1970	49.21%	3.00%	74.61%	28.08%	80.34%	25.52%	81.01%	8.68%	0.00%	0.00%	66.52%	3.32%	74.49%	0.00%
4	1971	54.75%	3.00%	75.32%	28.08%	80.09%	25.52%	80.04%	8.68%	0.00%	0.00%	67.24%	3.32%	79.04%	0.00%
5	1972	53.94%	3.00%	76.92%	28.08%	81.49%	25.52%	81.97%	8.68%	0.00%	0.00%	68.29%	3.32%	80.55%	0.00%
6	1973	56.31%	3.00%	74.58%	28.08%	82.78%	25.52%	83.42%	8.68%	0.00%	0.00%	69.55%	3.32%	82.95%	0.00%
7	1974	57.69%	1.50%	72.81%	21.00%	82.89%	20.00%	78.14%	5.00%	0.00%	0.00%	76.54%	1.66%	83.44%	15.84%
8	1975	60.44%	1.50%	67.45%	21.00%	82.07%	20.00%	77.89%	5.00%	0.00%	0.00%	72.04%	1.66%	77.17%	15.84%
9	1976	61.37%	1.50%	64.38%	21.00%	82.36%	20.00%	71.94%	5.00%	0.00%	0.00%	75.47%	1.66%	70.95%	15.84%
10	1977	61.88%	1.50%	58.04%	21.00%	82.57%	20.00%	70.00%	5.00%	0.00%	0.00%	78.47%	1.66%	74.72%	15.84%
11	1978	62.34%	1.50%	57.92%	21.00%	83.39%	20.00%	71.35%	5.00%	0.00%	0.00%	80.49%	1.66%	53.41%	15.84%
12	1979	67.97%	1.50%	61.69%	21.00%	82.66%	20.00%	75.16%	5.00%	0.00%	0.00%	83.78%	1.66%	64.30%	15.84%
13	1980	67.73%	1.50%	63.73%	21.32%	83.57%	20.30%	77.95%	4.18%	0.00%	0.00%	85.55%	1.39%	70.63%	16.59%
14	1981	61.41%	1.50%	63.23%	21.32%	84.11%	20.30%	79.31%	4.18%	0.00%	0.00%	82.77%	1.39%	69.90%	16.59%
15	1982	55.83%	1.50%	64.31%	21.32%	84.99%	20.30%	75.00%	4.18%	0.00%	0.00%	74.31%	1.39%	69.10%	16.59%
16	1983	54.58%	1.50%	66.64%	21.32%	85.61%	20.30%	70.41%	4.18%	0.00%	0.00%	73.01%	1.39%	69.15%	16.59%
17	1984	55.31%	1.50%	66.21%	21.32%	84.02%	20.30%	53.56%	4.18%	0.00%	0.00%	69.39%	1.39%	70.38%	16.59%
18	1985	56.29%	1.50%	43.22%	21.32%	84.89%	20.30%	57.55%	4.18%	0.00%	0.00%	18.94%	1.39%	72.18%	16.59%
19	1986	58.77%	1.50%	40.12%	21.32%	87.30%	20.30%	64.22%	4.18%	0.00%	0.00%	21.73%	1.39%	72.00%	16.59%
20	1987	65.40%	1.50%	46.58%	21.32%	85.69%	20.30%	68.74%	4.18%	0.00%	0.00%	21.80%	1.39%	74.00%	16.59%
21	1988	61.47%	1.50%	50.01%	21.32%	85.36%	20.30%	70.42%	4.18%	0.00%	0.00%	30.16%	1.39%	70.24%	49.93%
22	1989	51.63%	1.50%	52.16%	21.32%	74.90%	20.30%	73.47%	4.18%	0.00%	0.00%	34.80%	1.39%	65.12%	49.93%
23	1990	54.62%	1.50%	52.37%	21.32%	79.45%	20.30%	76.60%	4.17%	0.00%	0.00%	41.09%	1.39%	67.80%	49.93%
24	1991	50.21%	1.50%	50.73%	21.32%	79.60%	20.30%	74.00%	4.17%	0.00%	0.00%	41.42%	1.39%	62.01%	49.93%
25	1992	50.66%	1.50%	49.32%	21.32%	78.69%	20.30%	72.82%	4.17%	0.00%	0.00%	41.41%	1.39%	56.29%	49.93%
26	1993	45.20%	1.50%	45.78%	21.32%	78.54%	20.30%	73.65%	4.17%	0.00%	0.00%	45.45%	1.39%	57.64%	49.93%
27	1994	47.90%	1.50%	44.50%	21.32%	79.83%	20.30%	75.73%	4.17%	0.00%	0.00%	48.59%	1.39%	65.89%	49.93%
28	1995	49.56%	1.50%	49.50%	21.32%	83.02%	20.30%	76.40%	4.17%	0.00%	0.00%	50.57%	1.39%	71.21%	49.93%
29	1996	63.78%	1.50%	53.81%	22.17%	84.97%	20.31%	76.79%	3.27%	0.00%	0.00%	55.35%	1.44%	78.57%	49.93%

TAPS Carrier Parent and Composite Carrier Parent Capital Structure 1968-1996

Line No.	Year	Unocal		Sohio		Composite
		(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	TAPS Capital Structure
1	1968	66.86%	3.32%	80.47%	28.08%	75.50%
2	1969	68.48%	3.32%	77.13%	28.08%	78.06%
3	1970	67.61%	3.32%	65.66%	28.08%	72.85%
4	1971	67.89%	3.32%	66.20%	28.08%	73.25%
5	1972	67.64%	3.32%	71.45%	28.08%	75.70%
6	1973	69.44%	3.32%	72.24%	28.08%	75.90%
7	1974	69.99%	1.66%	60.01%	33.34%	72.30%
8	1975	69.31%	1.66%	42.37%	33.34%	64.08%
9	1976	68.24%	1.66%	29.61%	33.34%	58.01%
10	1977	64.31%	1.66%	26.34%	33.34%	56.12%
11	1978	66.85%	1.66%	32.25%	33.34%	55.00%
12	1979	70.03%	1.66%	46.81%	33.34%	62.61%
13	1980	74.09%	1.39%	57.26%	33.34%	67.85%
14	1981	76.23%	1.39%	62.21%	33.34%	69.34%
15	1982	77.38%	1.39%	63.77%	33.34%	69.77%
16	1983	78.30%	1.39%	69.16%	33.34%	71.98%
17	1984	79.32%	1.39%	71.48%	33.34%	71.82%
18	1985	22.06%	1.39%	70.91%	33.34%	65.88%
19	1986	24.00%	1.39%	69.70%	33.34%	65.66%
20	1987	27.14%	1.39%	74.00%	33.34%	68.81%
21	1988	32.90%	1.39%	0.00%	0.00%	67.80%
22	1989	36.79%	1.39%	0.00%	0.00%	63.68%
23	1990	38.60%	1.39%	0.00%	0.00%	66.27%
24	1991	35.01%	1.39%	0.00%	0.00%	62.84%
25	1992	38.34%	1.39%	0.00%	0.00%	59.50%
26	1993	39.33%	1.39%	0.00%	0.00%	59.41%
27	1994	36.50%	1.39%	0.00%	0.00%	63.65%
28	1995	36.42%	1.39%	0.00%	0.00%	68.10%
29	1996	38.86%	1.39%	0.00%	0.00%	73.22%

Appropriate Capital Structure 1968 - 1996
(In Millions)

	Debt Additions	Debt Balance	Total Property (End of Period)	Percent Debt	Percent Equity
	(a)	(b)	(c)	(d)	(e)
	RCA Exhibit 15, Sch. 3, Column c	cumulative sum of 'a'	Exhibit 143- RGV-C, TAPS- RGV WP3, Sch. 3	b / c	100% - d
1968	-	-	0.978	0.00%	100.00%
1969	-	-	36.438	0.00%	100.00%
1970	-	-	218.037	0.00%	100.00%
1971	-	-	326.389	0.00%	100.00%
1972	-	-	376.418	0.00%	100.00%
1973	-	-	426.544	0.00%	100.00%
1974.1	-	-	514.474	0.00%	100.00%
1974.2	448.047	448.047	1,359.463	32.96%	67.04%
1975	1,541.983	1,990.030	4,267.549	46.63%	53.37%
1976	1,397.050	3,387.081	6,902.301	49.07%	50.93%
1977.1	444.750	3,831.831	7,741.072	49.50%	50.50%
Thereafter				49.50%	50.50%

1974.1 = January through April 1974
1974.2 = May through December 1974
1977.1 = January through June 1977

Parties' Positions on Cost of Debt, 1968-1996
(percentages)

Line No.	(a)	(b)	(c)
	Date	Carriers and Williams*	Tesoro
		T-6, Exhibit WBT-19	FJH-T, Exhibit FJH-12
1	1968	5.66	6.96
2	1969	5.61	7.59
3	1970	6.28	8.99
4	1971	6.31	8.17
5	1972	6.44	7.75
6	1973	7.02	7.03
7	1974	8.19	8.84
8	1975	7.97	10.17
9	1976	8.33	10.73
10	1977	8.28	9.35
11	1978	8.44	9.03
12	1979	8.50	9.97
13	1980	8.93	11.91
14	1981	9.31	14.95
15	1982	9.54	13.30
16	1983	9.52	12.50
17	1984	9.49	12.60
18	1985	9.06	13.10
19	1986	8.50	11.60
20	1987	8.96	9.70
21	1988	8.94	10.70
22	1989	8.39	10.30
23	1990	8.26	9.00
24	1991	8.35	9.90
25	1992	8.10	9.50
26	1993	8.06	8.90
27	1994	8.10	7.90
28	1995	7.93	9.20
29	1996	7.91	7.20

*Carriers' sponsor separate costs of debt for each owner, but provide a composit cost of debt for illustrative purposes. Williams sponsors the Carrier-calculated composit debt cost.

**Appropriate Spread Between US Treasuries and Pipeline Cost of Debt
for Backcasting the 1974-1996 Cost of Debt
(Percent Rates)**

Line No.	Description (a)	Source (b)	1997 (c)	1998 (d)	1999 (e)
	Proxy Group of Five Oil Pipeline Companies				
1	Arithmetic Average	FJH-T, Exhibit FJH-4	8.81	8.18	7.24
	Proxy Group of Gas Pipeline Companies				
2	Average of the operating subsidiaries	FJH-T, Exhibit FJH-4	8.14	7.83	7.72
3	Average	(Lns. (1 + 2)) / 2	8.48	8.01	7.48
4	Return on long-term US Treasuries	JSG-T, Exh. JSG-2, Sch. 12	6.60	5.66	6.11
5	Difference between US Treasuries and Average of oil and gas pipelines	Lns. 3 - 4	1.88	2.35	1.37
6	Average difference used for backcasting purposes	Average of Ln. 5		1.86	

Appropriate Cost of Debt for 1974-1996 Issuances
(Percent Rates)

Line No.	Year	Long-Term Government Bonds	Cost of Debt
		(a)	(b)
		JSG-T, Exhibit JSG-2, Schedule 12	a + 1.86 [*]
1	1968	5.26	7.12
2	1969	6.12	7.98
3	1970	6.58	8.44
4	1971	5.70	7.56
5	1972	5.54	7.40
6	1973	6.21	8.07
7	1974	6.88	8.74
8	1975	6.96	8.82
9	1976	6.79	8.65
10	1977	7.53	9.39
11	1978	8.40	10.26
12	1979	9.26	11.12
13	1980	11.23	13.09
14	1981	13.31	15.17
15	1982	12.61	14.47
16	1983	11.17	13.03
17	1984	12.36	14.22
18	1985	10.89	12.75
19	1986	8.19	10.05
20	1987	8.70	10.56
21	1988	9.03	10.89
22	1989	8.56	10.42
23	1990	8.71	10.57
24	1991	8.14	10.00
25	1992	7.50	9.36
26	1993	6.44	8.30
27	1994	7.40	9.26
28	1995	6.89	8.75
29	1996	6.72	8.58

^{*}Exhibit 13, Line 6, Column (d)

**Explanatory Note to Exhibit 15:
Derivation of a Hypothetical Embedded Cost of Debt**

Schedule 3 shows the calculation of the embedded cost of debt. By definition, the embedded cost of debt is the weighted average cost of debt, where weights are determined by the proportion of debt at a given cost to the outstanding debt balance. Debt costs in any given year are shown in Exhibit 14, column b. Therefore, to derive the embedded cost of debt one need determine only the outstanding debt balance for any given year. The outstanding debt balance is affected by additions to capital financed with debt, and subtractions therefrom.

Additions to capital financed with debt come from two sources. First, when capital additions to Carrier property are made, property is deemed to have been financed with 49.5 percent debt. Second, starting in 1993, bonds with a 19-year term (see Exhibit 15, Schedule 1) used to finance original construction begin to mature. The outstanding principle balance on such bonds must then be refinanced with debt at current market rates. Exhibit 15, Schedule 2 calculates the size of the balloon payment.

Balloon payments (Schedule 3, column (j)) are determined by the amount of funds remaining on a hypothetical bond note after 19 years (the term to maturity, calculated at Schedule 1) have passed. No payments are deemed to have been made before TAPS initially went into service. Annual "sinking fund" payments on a given bond issuance are calculated as the product of the depreciation factors in Exhibit 23 (see lines 24-43, Schedule 2) times the net balance of unpaid principle (see lines 1-21, Schedule 2). Net unpaid principle is the year's unpaid principle less the year's sinking fund payment.

Subtractions from the outstanding debt balance are determined by the depreciation schedule. To maintain the 49.5 percent capital structure, debt principle is paid down at the same rate as Carrier property is depreciated. Carrier property is depreciated according to Exhibit 23. In Schedule 3 these payments are referred to as "sinking fund" payments; see column (f).

Calculation of Weighted Average Term to Maturity for Major TAPS Financings

Line No.	(a) Date	(b) Company	(c) Millions \$	(d) Maturity (years)	(e) c * d
1	10/17/1974	Exxon PLC	250	30	7,500
2	11/1/1974	Arco PLC	200	7	1,400
3	11/26/1974	Union	150	8	1,200
4	12/4/1974	Sohio/BP PLC	250	25	6,250
5	1/15/1975	Arco PLC	250	7.5	1,875
6	1/29/1975	Sohio/BP PLC	250	8	2,000
7	2/19/1975	Mobil PLC	300	30	9,000
8	6/5/1975	Union	150	10	1,500
9	7/16/1975	Arco PLC	200	8	1,600
10	8/12/1975	BP North America	50	5	250
11	8/12/1975	BP North America	100	25	2,500
12	10/16/1975	Exxon PLC	150	5	750
13	10/16/1975	Exxon PLC	300	25	7,500
14	11/13/1975	Phillips	250	25	6,250
15	11/13/1975	Sohio/BP PLC	1,750	18 & 33	44,625
16	1/27/1976	Arco PLC	200	8	1,600
17	2/10/1976	BP North America	150	25	3,750
18	2/26/1976	Exxon PLC	150	7	1,050
19	2/26/1976	Exxon PLC	250	25	6,250
20	3/2/1976	Union	200	30	6,000
21	3/11/1976	Sohio	200	1.5	300
22	3/11/1976	Sohio	50	3	150
23	3/11/1976	Sohio	75	5	375
24	4/27/1976	Sohio PLC	250	25	6,250
25	6/15/1976	Amerada	150	20	3,000
26	9/28/1976	Arco PLC	150	6	900
27	9/28/1976	Arco PLC	150	20	3,000
28	9/30/1976	Sohio/BP PLC	500	18 & 23	10,250
29	12/2/1976	Sohio	75	5	375
30	12/2/1976	Sohio	75	3	225
31	12/2/1976	Sohio	200	10	2,000
32	3/15/1977	Sohio	250	30	7,500
33	Totals		7,675		147,175

Weighted Average Number of Years to Maturity 19
(line 33, cols e/c, rounded to whole year)

Major Financings Undertaken by TAPS Owners and Parent Companies, 11/1973-10/1977
From pp. 99-100, WBT-26; Exhibit 27 (RBG-3) of OR78-1

Calculation of size of Balloon Payments, Used for Backcasting 1974 -1996 Embedded Cost of Debt

Years to Maturity (Sch. 1)			19					
			Outstanding Debenture Balance EOY, for Debt Issued in Year (Millions \$)					
Line	Capitalization Financed Exhibit 15, by Debt Sch. 3, Col d	No.	1974	1975	1976	1977	1978	1979
			(A)	(B)	(C)	(D)	(E)	(F)
			(Prior A) - a	(Prior B) - b	(Prior C) - c	(Prior D) - d	(Prior E - e)	(Prior F - f)
			448.047	1541.983	1397.050	703.549	62.989	40.531
	Years to depreciate capital		16	17	18	19	19	19
1	1977		441.862	1520.698	1377.765	693.837		
2	1978		413.961	1424.676	1290.769	650.026	59.012	
3	1979		380.656	1310.052	1186.918	597.727	54.264	37.270
4	1980		343.392	1181.808	1070.728	539.214	48.952	33.621
5	1981		307.733	1059.084	959.539	483.220	43.868	30.130
6	1982		271.656	934.921	847.047	426.570	38.725	26.598
7	1983		237.251	816.516	739.771	372.546	33.821	23.229
8	1984		204.146	702.582	636.545	320.562	29.102	19.988
9	1985		176.342	606.894	549.851	276.903	25.138	17.266
10	1986		150.147	516.741	468.171	235.769	21.404	14.701
11	1987		124.787	429.463	389.097	195.948	17.789	12.218
12	1988		101.770	350.249	317.328	159.805	14.508	9.964
13	1989		82.285	283.188	256.571	129.208	11.730	8.056
14	1990		66.505	228.881	207.369	104.430	9.481	6.511
15	1991		54.379	187.149	169.558	85.389	7.752	5.324
16	1992		43.239	148.809	134.822	67.896	6.164	4.233
17	1993		43.239	118.267	107.151	53.961	4.899	3.365
18	1994		43.239	118.267	85.303	42.958	3.900	2.679
19	1995		43.239	118.267	85.303	34.088	3.095	2.125
20	1996		43.239	118.267	85.303	34.088	2.560	1.758
21								
22	Balloon Payment Due		43.239	118.267	85.303	34.088	0.000	0.000
23								
Depreciation Factors			Sinking fund payment for debt issued in year (millions \$)					
FACT Exhibit 24, Ln. 8			(a)	(b)	(c)	(d)	(e)	(f)
			FACT * (EOY Balance for year, Col. A)	FACT * (EOY Balance for year, Col. B)	FACT * (EOY Balance for year, Col. C)	FACT * (EOY Balance for year, Col. D)	FACT * (EOY Balance for year, Col. E)	FACT * (EOY Balance for year, Col. F)
24	0.013804166	1977	6.185	21.286	19.285	9.712	N/A	N/A
25	0.063143318	1978	27.901	96.022	86.997	43.811	3.977	N/A
26	0.080456035	1979	33.306	114.624	103.850	52.299	4.748	3.261
27	0.097892549	1980	37.263	128.244	116.190	58.513	5.312	3.648
28	0.103843969	1981	35.659	122.724	111.189	55.994	5.083	3.491
29	0.117235791	1982	36.077	124.163	112.492	56.651	5.143	3.532
30	0.126647024	1983	34.404	118.405	107.276	54.024	4.904	3.369
31	0.139537087	1984	33.105	113.934	103.225	51.984	4.719	3.241
32	0.136195079	1985	27.804	95.688	86.694	43.659	3.964	2.722
33	0.148548658	1986	26.195	90.153	81.680	41.134	3.734	2.565
34	0.168900783	1987	25.360	87.278	79.075	39.822	3.615	2.483
35	0.184448800	1988	23.017	79.214	71.768	36.142	3.281	2.254
36	0.191465638	1989	19.485	67.061	60.757	30.597	2.778	1.908
37	0.191769402	1990	15.780	54.307	49.202	24.778	2.249	1.545
38	0.182334043	1991	12.126	41.733	37.810	19.041	1.729	1.187
39	0.204863309	1992	11.140	38.340	34.736	17.493	1.588	1.091
40	0.205244266	1993	0.000	30.542	27.671	13.935	1.265	0.869
41	0.203892105	1994	0.000	0.000	21.847	11.002	0.999	0.686
42	0.206482928	1995	0.000	0.000	0.000	8.870	0.805	0.553
43	0.172904106	1996	0.000	0.000	0.000	0.000	0.535	0.368

Calculation of size of Balloon Payments, Used for Backcasting 1974 -1996 Embedded Cost of Debt

Years to Maturity (Sch. 1)			19					
Line No.	Capitalization Financed by Debt Exhibit 15, Sch. 3, Col d	Years to depreciate capital	1980	1981	1982	1983	1984	1985
			(G)	(H)	(I)	(J)	(K)	(L)
			(Prior G - g)	(Prior H - h)	(Prior I - i)	(Prior J - j)	(Prior K - k)	(Prior L - l)
			66.485	17.697	8.926	30.424	23.162	16.391
			19	19	19	19	19	19
1	1977							
2	1978							
3	1979							
4	1980	59.977						
5	1981	53.748	15.859					
6	1982	47.447	14.000	7.880				
7	1983	41.438	12.227	6.882	26.571			
8	1984	35.656	10.521	5.922	22.863	19.930		
9	1985	30.800	9.088	5.115	19.749	17.215	14.158	
10	1986	26.225	7.738	4.355	16.815	14.658	12.055	
11	1987	21.795	6.431	3.620	13.975	12.182	10.019	
12	1988	17.775	5.245	2.952	11.398	9.935	8.171	
13	1989	14.372	4.241	2.387	9.215	8.033	6.606	
14	1990	11.616	3.427	1.929	7.448	6.493	5.340	
15	1991	9.498	2.802	1.577	6.090	5.309	4.366	
16	1992	7.552	2.228	1.254	4.842	4.221	3.472	
17	1993	6.002	1.771	0.997	3.849	3.355	2.759	
18	1994	4.778	1.410	0.794	3.064	2.671	2.196	
19	1995	3.792	1.119	0.630	2.431	2.119	1.743	
20	1996	3.136	0.925	0.521	2.011	1.753	1.442	
21								
22	Balloon Payment Due		0.000	0.000	0.000	0.000	0.000	0.000
23								
Depreciation Factors								
FACT Exhibit 24, Ln. 8			(g)	(h)	(i)	(j)	(k)	(l)
			FACT * (EOY Balance for year, Col. G)	FACT * (EOY Balance for year, Col. H)	FACT * (EOY Balance for year, Col. I)	FACT * (EOY Balance for year, Col. J)	FACT * (EOY Balance for year, Col. K)	FACT * (EOY Balance for year, Col. L)
24	0.013804166	1977	N/A	N/A	N/A	N/A	N/A	N/A
25	0.063143318	1978	N/A	N/A	N/A	N/A	N/A	N/A
26	0.080456035	1979	N/A	N/A	N/A	N/A	N/A	N/A
27	0.097892549	1980	6.508	N/A	N/A	N/A	N/A	N/A
28	0.103843969	1981	6.228	1.838	N/A	N/A	N/A	N/A
29	0.117235791	1982	6.301	1.859	1.046	N/A	N/A	N/A
30	0.126647024	1983	6.009	1.773	0.998	3.853	N/A	N/A
31	0.139537087	1984	5.782	1.706	0.960	3.708	3.232	N/A
32	0.136195079	1985	4.856	1.433	0.806	3.114	2.714	2.232
33	0.148548658	1986	4.575	1.350	0.760	2.934	2.557	2.103
34	0.168900783	1987	4.429	1.307	0.736	2.840	2.476	2.036
35	0.184448800	1988	4.020	1.186	0.668	2.578	2.247	1.848
36	0.191465638	1989	3.403	1.004	0.565	2.182	1.902	1.564
37	0.191769402	1990	2.756	0.813	0.458	1.767	1.540	1.267
38	0.182334043	1991	2.118	0.625	0.352	1.358	1.184	0.974
39	0.204863309	1992	1.946	0.574	0.323	1.248	1.088	0.894
40	0.205244266	1993	1.550	0.457	0.257	0.994	0.866	0.713
41	0.203892105	1994	1.224	0.361	0.203	0.785	0.684	0.563
42	0.206482928	1995	0.987	0.291	0.164	0.633	0.551	0.454
43	0.172904106	1996	0.656	0.193	0.109	0.420	0.366	0.301

Calculation of size of Balloon Payments, Used for Backcasting 1974 -1996 Embedded Cost of Debt

Years to Maturity (Sch. 1)			19					
Line	Capitalization Financed Exhibit 15, by Debt Sch. 3, Col d	No.	1986	1987	1988	1989	1990	1991
			(M)	(N)	(O)	(P)	(Q)	(R)
			(Prior M - m)	(Prior N - n)	(Prior O - o)	(Prior P - p)	(Prior Q - q)	(Prior R - r)
			18.071	21.752	9.584	27.035	82.318	27.230
	Years to depreciate capital		19	19	19	19	19	19
1	1977							
2	1978							
3	1979							
4	1980							
5	1981							
6	1982							
7	1983							
8	1984							
9	1985							
10	1986		15.386					
11	1987		12.788	18.078				
12	1988		10.429	14.743	7.816			
13	1989		8.432	11.921	6.320	21.859		
14	1990		6.815	9.635	5.108	17.667	66.532	
15	1991		5.573	7.878	4.177	14.446	54.401	22.265
16	1992		4.431	6.264	3.321	11.486	43.256	17.704
17	1993		3.521	4.978	2.639	9.129	34.378	14.070
18	1994		2.803	3.963	2.101	7.268	27.369	11.202
19	1995		2.225	3.145	1.667	5.767	21.718	8.889
20	1996		1.840	2.601	1.379	4.770	17.963	7.352
21								
22	Balloon Payment Due		0.000	0.000	0.000	0.000	0.000	0.000
23								
Depreciation Factors								
FACT Exhibit 24, Ln. 8			(m)	(n)	(o)	(p)	(q)	(r)
			FACT * (EOY Balance for year, Col. M)	FACT * (EOY Balance for year, Col. N)	FACT * (EOY Balance for year, Col. O)	FACT * (EOY Balance for year, Col. P)	FACT * (EOY Balance for year, Col. Q)	FACT * (EOY Balance for year, Col. R)
24	0.013804166	1977	N/A	N/A	N/A	N/A	N/A	N/A
25	0.063143318	1978	N/A	N/A	N/A	N/A	N/A	N/A
26	0.080456035	1979	N/A	N/A	N/A	N/A	N/A	N/A
27	0.097892549	1980	N/A	N/A	N/A	N/A	N/A	N/A
28	0.103843969	1981	N/A	N/A	N/A	N/A	N/A	N/A
29	0.117235791	1982	N/A	N/A	N/A	N/A	N/A	N/A
30	0.126647024	1983	N/A	N/A	N/A	N/A	N/A	N/A
31	0.139537087	1984	N/A	N/A	N/A	N/A	N/A	N/A
32	0.136195079	1985	N/A	N/A	N/A	N/A	N/A	N/A
33	0.148548658	1986	2.684	N/A	N/A	N/A	N/A	N/A
34	0.168900783	1987	2.599	3.674	N/A	N/A	N/A	N/A
35	0.184448800	1988	2.359	3.334	1.768	N/A	N/A	N/A
36	0.191465638	1989	1.997	2.823	1.497	5.176	N/A	N/A
37	0.191769402	1990	1.617	2.286	1.212	4.192	15.786	N/A
38	0.182334043	1991	1.243	1.757	0.931	3.221	12.131	4.965
39	0.204863309	1992	1.142	1.614	0.856	2.959	11.145	4.561
40	0.205244266	1993	0.909	1.286	0.682	2.358	8.878	3.634
41	0.203892105	1994	0.718	1.015	0.538	1.861	7.009	2.869
42	0.206482928	1995	0.579	0.818	0.434	1.501	5.651	2.313
43	0.172904106	1996	0.385	0.544	0.288	0.997	3.755	1.537

Calculation of size of Balloon Payments, Used for Backcasting 1974 -1996 Embedded Cost of Debt

Years to Maturity (Sch. 1)			19				
Line No.	Capitalization Financed by Debt Exhibit 15, Sch. 3, Col d	Years to depreciate capital	1992	1993	1994	1995	1996
			(S)	(T)	(U)	(V)	(W)
			(Prior S - s)	(Prior T - t)	(Prior U - u)	(Prior V - v)	(Prior W - w)
			34.833	18.958	26.536	29.147	26.242
			19	19	19	19	19
1	1977						
2	1978						
3	1979						
4	1980						
5	1981						
6	1982						
7	1983						
8	1984						
9	1985						
10	1986						
11	1987						
12	1988						
13	1989						
14	1990						
15	1991						
16	1992		27.697				
17	1993		22.013	15.067			
18	1994		17.524	11.995	21.126		
19	1995		13.906	9.518	16.764	23.129	
20	1996		11.502	7.873	13.865	19.130	26.242
21							
22	Balloon Payment Due		0.000	0.000	0.000	0.000	0.000
23							
Depreciation Factors							
FACT Exhibit 24, Ln. 8			(s)	(t)	(u)	(v)	(w)
			FACT * (EOY Balance for year, Col. S)	FACT * (EOY Balance for year, Col. T)	FACT * (EOY Balance for year, Col. U)	FACT * (EOY Balance for year, Col. V)	FACT * (EOY Balance for year, Col. W)
24	0.013804166	1977	N/A	N/A	N/A	N/A	N/A
25	0.063143318	1978	N/A	N/A	N/A	N/A	N/A
26	0.080456035	1979	N/A	N/A	N/A	N/A	N/A
27	0.097892549	1980	N/A	N/A	N/A	N/A	N/A
28	0.103843969	1981	N/A	N/A	N/A	N/A	N/A
29	0.117235791	1982	N/A	N/A	N/A	N/A	N/A
30	0.126647024	1983	N/A	N/A	N/A	N/A	N/A
31	0.139537087	1984	N/A	N/A	N/A	N/A	N/A
32	0.136195079	1985	N/A	N/A	N/A	N/A	N/A
33	0.148548658	1986	N/A	N/A	N/A	N/A	N/A
34	0.168900783	1987	N/A	N/A	N/A	N/A	N/A
35	0.184448800	1988	N/A	N/A	N/A	N/A	N/A
36	0.191465638	1989	N/A	N/A	N/A	N/A	N/A
37	0.191769402	1990	N/A	N/A	N/A	N/A	N/A
38	0.182334043	1991	N/A	N/A	N/A	N/A	N/A
39	0.204863309	1992	7.136	N/A	N/A	N/A	N/A
40	0.205244266	1993	5.685	3.891	N/A	N/A	N/A
41	0.203892105	1994	4.488	3.072	5.411	N/A	N/A
42	0.206482928	1995	3.618	2.477	4.362	6.018	N/A
43	0.172904106	1996	2.404	1.646	2.899	3.999	0.000

Appropriate Embedded Cost of Debt for 1974-1996

Line No.	Year	Capital Additions (Millions \$)	"Catch up" debt factors	"Catch up" Debt Additions (Millions \$)	Debt Additions (Millions \$)	Appropriate DOC Depreciation Factors	Sinking Fund Debt Payments (Millions \$)	Debt Balance EOY (Millions \$)	Yearly Cost of Debt (Percent)	Debt Additions Times Cost	Balloon Payment (Millions \$)	Cost of Old (Ballooned) Debt (Percent)	Embedded Cost of Debt (Percent)
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
		Exhibit 14.3-RGV-C, TAPS-RGV, WP3, Sch. 3	(if this year) Sum of 1974.2-1977.1	b * Sum of 1974.2-1977.1 + 495	If year > 1974.1, then 495 * a + c; else 0	Exhibit 24, Ln. 8	e (prior g + d)	prior g + d - f	Exhibit 14, Col. b	d * h	Exhibit 15, Sch. 2, Ln. 22	15. Sch. 2, Lns. 7-10; debt cost: Exhibit 14	[(Prior (g) + 1 + j) * (h-k)] / (f-g)
1	1968	0.978	-	-	-	-	-	-	7.12	-	-	-	-
2	1969	35.460	-	-	-	-	-	-	7.98	-	-	-	-
3	1970	181.599	-	-	-	-	-	-	8.44	-	-	-	-
4	1971	108.353	-	-	-	-	-	-	7.56	-	-	-	-
5	1972	50.029	-	-	-	-	-	-	7.40	-	-	-	-
6	1973	50.126	-	-	-	-	-	-	8.07	-	-	-	-
7	1974.1	87.930	-	-	-	-	-	-	8.74	-	-	-	-
8	1974.2	844.989	0.11693	29.777	448.047	-	-	448.047	8.74	3,915.93	-	-	8.74
9	1975	2,908.086	0.40241	102.481	1,541.983	-	-	1,990.030	8.82	13,600.29	-	-	8.80
10	1976	2,634.751	0.36459	92.848	1,397.050	-	-	3,387.081	8.65	12,684.49	-	-	8.74
11	1977.1	838.771	0.11607	29.558	444.750	-	-	3,831.831	9.39	4,176.20	-	-	8.82
12	1977.2	522.626	-	-	258.799	-	-	4,034.162	9.39	2,430.12	-	-	8.86
13	1978	127.250	-	-	62.989	0.013804	56.468	3,838.443	10.26	646.27	-	-	8.88
14	1979	81.980	-	-	40.531	0.060456	312.087	3,566.887	11.12	450.70	-	-	8.90
15	1980	134.313	-	-	66.485	0.097893	355.680	3,277.692	13.09	870.29	-	-	8.98
16	1981	35.751	-	-	17.697	0.103844	342.206	2,953.182	15.17	268.46	-	-	9.01
17	1982	18.033	-	-	8.926	0.117236	347.265	2,614.844	14.47	129.16	-	-	9.03
18	1983	61.462	-	-	30.424	0.126647	335.015	2,310.252	13.03	396.42	-	-	9.08
19	1984	46.791	-	-	23.162	0.139537	325.598	2,007.816	14.22	329.36	-	-	9.16
20	1985	33.112	-	-	16.391	0.136195	275.687	1,748.520	12.75	208.98	-	-	9.17
21	1986	36.507	-	-	18.071	0.148549	262.425	1,504.166	10.05	181.61	-	-	9.19
22	1987	43.943	-	-	21.752	0.168901	257.729	1,268.189	10.56	229.70	-	-	9.20
23	1988	19.362	-	-	9.594	0.184449	235.684	1,042.089	10.89	104.37	-	-	9.23
24	1989	54.617	-	-	27.035	0.191466	204.701	864.424	10.42	281.71	-	-	9.35
25	1990	166.300	-	-	62.318	0.191769	181.556	765.186	10.57	670.10	-	-	9.37
26	1991	55.011	-	-	27.230	0.182334	144.485	647.932	10.00	272.30	-	-	9.37
27	1992	70.371	-	-	34.833	0.204863	139.874	542.892	9.36	326.04	-	-	9.37
28	1993	38.299	-	-	18.968	0.205244	115.317	446.534	8.30	157.35	43.239	8.74	9.30
29	1994	53.609	-	-	26.536	0.203892	96.456	376.615	9.26	245.73	118.267	8.82	9.41
30	1995	58.863	-	-	29.147	0.206463	83.783	321.979	8.75	255.04	85.303	8.65	9.38
31	1996	53.015	-	-	26.242	0.172904	60.209	288.072	8.58	225.16	34.088	9.39	9.24

1974.1 = January through April 1974
1974.2 = May through December 1974
1977.1 = January through June 1977
1977.2 = July through December 1977

Parties' Positions on Return on Equity, 1968-1996
(percentages)

Line No.	(a) Date	(b) Carriers*	(c) Williams	(d) Tesoro
		Exhibit 143-RGV-C, Sch. 3	JSG-T, Exhibit JSG-2, Sch. 13	FJH-T, Exhibit FJH-12
1	1968	15.65	14.01	11.98
2	1969	16.36	14.91	12.39
3	1970	17.56	15.63	13.30
4	1971	16.26	14.81	12.78
5	1972	15.63	14.59	12.51
6	1973	16.35	15.12	12.01
7	1974	17.33	16.02	13.15
8	1975	18.78	16.54	14.19
9	1976	19.31	15.91	14.42
10	1977	20.97	15.70	13.52
11	1978	22.73	16.64	13.27
12	1979	22.40	18.09	13.91
13	1980	23.92	20.44	15.19
14	1981	26.46	21.26	17.12
15	1982	25.25	21.29	15.84
16	1983	22.83	17.85	15.33
17	1984	24.54	18.54	15.40
18	1985	21.71	17.61	15.71
19	1986	22.05	15.94	14.77
20	1987	20.06	15.95	13.57
21	1988	20.68	16.30	14.20
22	1989	21.13	15.88	13.95
23	1990	20.84	16.62	13.13
24	1991	20.52	16.73	13.70
25	1992	20.37	16.44	13.44
26	1993	18.56	16.21	13.07
27	1994	19.41	16.66	12.44
28	1995	18.02	16.37	13.26
29	1996	17.05	15.08	12.00

*Carriers' sponsor separate costs of equity for each owner, but provide a composit equity return for illustrative purposes. Composit equity return rate can also be calculated from Exhibit WBT-18 and Exhibit WBT-19 in T-6.

Appropriate Modifications to Williams Petroleum's Approach to
Determining the Cost of Equity for 1968-1996, Based on Alaska Pipeline Decisions
(percent rates)

Line No.	Year	Kenai ROE	Kuparuk ROE	Average of Kenai/Kuparuk Overlap Years	Projection Basis	US Treasuries	Risk Premium over Treasuries	Risk Premium Projection	Projected ROE	Alaska Pipeline ROE
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		JSG-T, Exhibit JSG-2, Sch. 6	JSG-T, Exhibit JSG-2, Sch. 6	If a+b not 0, then (a+b)/2; else 0	If c not 0, then c; else non-zero a or b	JSG-T, Exhibit JSG-2, Sch. 12	If d not 0, then d - e, else 0	5-year avg. of f's nearest non-zero entries	If d = 0, then e; else 0	d or h, which ever is non-zero
1	1968	-	-	-	-	5.26	-	4.98	10.24	10.24
2	1969	-	-	-	-	6.12	-	4.98	11.10	11.10
3	1970	-	-	-	-	6.58	-	4.98	11.56	11.56
4	1971	-	-	-	-	5.70	-	4.98	10.68	10.68
5	1972	-	-	-	-	5.54	-	4.98	10.52	10.52
6	1973	-	-	-	-	6.21	-	4.98	11.19	11.19
7	1974	-	-	-	-	6.88	-	4.98	11.86	11.86
8	1975	-	-	-	-	6.96	-	4.98	11.94	11.94
9	1976	-	-	-	-	6.79	-	4.98	11.77	11.77
10	1977	-	-	-	-	7.53	-	4.98	12.51	12.51
11	1978	-	-	-	-	8.40	-	4.98	13.38	13.38
12	1979	-	-	-	-	9.26	-	4.98	14.24	14.24
13	1980	-	-	-	-	11.23	-	4.98	16.21	16.21
14	1981	-	19.95	-	19.95	13.31	6.64	4.98	-	19.95
15	1982	-	19.95	-	19.95	12.61	7.34	-	-	19.95
16	1983	-	14.69	-	14.69	11.17	3.52	-	-	14.69
17	1984	-	15.90	-	15.90	12.36	3.54	-	-	15.90
18	1985	15.50	14.00	14.75	14.75	10.89	3.86	-	-	14.75
19	1986	16.65	13.00	14.83	14.83	8.19	6.64	-	-	14.83
20	1987	14.98	13.50	14.24	14.24	8.70	5.54	-	-	14.24
21	1988	14.74	-	14.74	14.74	9.03	5.71	-	-	14.74
22	1989	14.74	-	14.74	14.74	8.56	6.18	-	-	14.74
23	1990	14.50	-	14.50	14.50	8.71	5.79	-	-	14.50
24	1991	14.50	-	14.50	14.50	7.50	6.36	-	-	14.50
25	1992	-	-	-	-	6.44	-	6.21	12.65	12.65
26	1993	-	-	-	-	7.40	-	6.21	13.61	13.61
27	1994	-	-	-	-	6.89	-	6.21	13.10	13.10
28	1995	-	-	-	-	6.72	-	6.21	12.93	12.93
29	1996	-	-	-	-	-	-	-	-	-

Appropriate Cost of Equity for the Average Pipeline, 1968-1996
(No Special TAPS Risk Premium Included)
(Percent rates)

Line No.	Year	Williams' Pipeline Proxy-Based DCF Return	Williams' Pipeline Proxy-Based DCF Return, Risk Premium Removed	Return Suggested by AK Pipeline Decisions, as Appropriate Modified	Return on Equity, Excluding Special TAPS Risk Premium
		(a)	(b)	(c)	(d)
		JSG-2, Schedule 13	a - 0.50	Exhibit 17, col i	(b + c) / 2
1	1968	13.32	12.82	10.24	11.53
2	1969	14.18	13.68	11.10	12.39
3	1970	14.64	14.14	11.56	12.85
4	1971	13.76	13.26	10.68	11.97
5	1972	13.60	13.10	10.52	11.81
6	1973	14.27	13.77	11.19	12.48
7	1974	14.94	14.44	11.86	13.15
8	1975	15.02	14.52	11.94	13.23
9	1976	14.85	14.35	11.77	13.06
10	1977	15.59	15.09	12.51	13.80
11	1978	16.46	15.96	13.38	14.67
12	1979	17.32	16.82	14.24	15.53
13	1980	19.29	18.79	16.21	17.50
14	1981	21.37	20.87	19.95	20.41
15	1982	20.67	20.17	19.95	20.06
16	1983	19.23	18.73	14.69	16.71
17	1984	20.42	19.92	15.90	17.91
18	1985	18.95	18.45	14.75	16.60
19	1986	16.25	15.75	14.83	15.29
20	1987	16.76	16.26	14.24	15.25
21	1988	17.09	16.59	14.74	15.67
22	1989	16.62	16.12	14.74	15.43
23	1990	17.19	16.69	14.50	15.60
24	1991	16.62	16.12	14.50	15.31
25	1992	15.72	15.22	14.50	14.86
26	1993	14.39	13.89	12.65	13.27
27	1994	14.73	14.23	13.61	13.92
28	1995	15.38	14.88	13.10	13.99
29	1996	14.63	14.13	12.93	13.53

**Calculation of 33-Basis Point Risk Premium for
Non-Completion Risk During Pre-Construction**

Inputs to calculation of non-completion risk premium			
i	Part IV.B.4	Years	25
ii	Part IV.B.4	Probability of Project Success	98.00%
iii	Exhibit 18	No Risk Premium ROE, 1968-1974 Mean	12.31%
iv	Solution to make (g) sum to \$100	Compensatory Risk Premium	0.36%
v	90% * (iv)	Risk Premium Applied to Total Equity	0.33%
vi	(iii) + (iv)	Total return on equity	12.67%

Line #	Year	Net DOC Rate Base	SL Dep.	Return	Cash Flows	Discount Factor	Probability of Success	Expected Present Value of Cash Flow ('d')
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	\$ 100.00	\$ 4.00	\$ 12.67	\$ 16.67	0.89	98%	\$ 14.55
2	2	\$ 96.00	\$ 4.00	\$ 12.17	\$ 16.17	0.79	98%	\$ 12.56
3	3	\$ 92.00	\$ 4.00	\$ 11.66	\$ 15.66	0.71	98%	\$ 10.83
4	4	\$ 88.00	\$ 4.00	\$ 11.15	\$ 15.15	0.63	98%	\$ 9.33
5	5	\$ 84.00	\$ 4.00	\$ 10.65	\$ 14.65	0.56	98%	\$ 8.03
6	6	\$ 80.00	\$ 4.00	\$ 10.14	\$ 14.14	0.50	98%	\$ 6.90
7	7	\$ 76.00	\$ 4.00	\$ 9.63	\$ 13.63	0.44	98%	\$ 5.93
8	8	\$ 72.00	\$ 4.00	\$ 9.12	\$ 13.12	0.40	98%	\$ 5.08
9	9	\$ 68.00	\$ 4.00	\$ 8.62	\$ 12.62	0.35	98%	\$ 4.35
10	10	\$ 64.00	\$ 4.00	\$ 8.11	\$ 12.11	0.31	98%	\$ 3.72
11	11	\$ 60.00	\$ 4.00	\$ 7.60	\$ 11.60	0.28	98%	\$ 3.17
12	12	\$ 56.00	\$ 4.00	\$ 7.10	\$ 11.10	0.25	98%	\$ 2.70
13	13	\$ 52.00	\$ 4.00	\$ 6.59	\$ 10.59	0.22	98%	\$ 2.29
14	14	\$ 48.00	\$ 4.00	\$ 6.08	\$ 10.08	0.20	98%	\$ 1.94
15	15	\$ 44.00	\$ 4.00	\$ 5.58	\$ 9.58	0.18	98%	\$ 1.64
16	16	\$ 40.00	\$ 4.00	\$ 5.07	\$ 9.07	0.16	98%	\$ 1.39
17	17	\$ 36.00	\$ 4.00	\$ 4.56	\$ 8.56	0.14	98%	\$ 1.17
18	18	\$ 32.00	\$ 4.00	\$ 4.06	\$ 8.06	0.12	98%	\$ 0.98
19	19	\$ 28.00	\$ 4.00	\$ 3.55	\$ 7.55	0.11	98%	\$ 0.81
20	20	\$ 24.00	\$ 4.00	\$ 3.04	\$ 7.04	0.10	98%	\$ 0.68
21	21	\$ 20.00	\$ 4.00	\$ 2.53	\$ 6.53	0.09	98%	\$ 0.56
22	22	\$ 16.00	\$ 4.00	\$ 2.03	\$ 6.03	0.08	98%	\$ 0.46
23	23	\$ 12.00	\$ 4.00	\$ 1.52	\$ 5.52	0.07	98%	\$ 0.37
24	24	\$ 8.00	\$ 4.00	\$ 1.01	\$ 5.01	0.06	98%	\$ 0.30
25	25	\$ 4.00	\$ 4.00	\$ 0.51	\$ 4.51	0.05	98%	\$ 0.24

Total \$ 100.00

Sources and notes

- a = Assumes \$100 in Year 1. Thereafter [a] - [b] from previous year
- b = Straight line depreciation over 25 years; see Part IV.B.4 for finding
- c = [a] x [vi]
- d = [b] + [c]
- e = $1 / (1 + [\text{iii}])^{\text{Year}}$
- f = [ii]
- g = [d] x [e] x [f]

**Calculation of 42-Basis Point Risk Premium
for Economic Risk During Pre-construction and Construction**

Inputs to calculation of equity recovery risk premium			
i	Part IV.B.4	Years	25
ii	Part IV.B.4	Probability of Total Loss, 1968-1977 Equity	2.5%
iii	1- (ii)	Probability of No Loss, 1968-1977 Equity	97.50%
iv	Exhibit 18	No Risk Premium ROE, 1968-1977 Mean	12.63%
v	Solution to make (g) sum to \$100	Compensatory Risk Premium	0.46%
vi	90% * (v)	Risk Premium Applied to Total Equity	0.42%
vii	(iv) + (v)	Total return on equity	13.09%

Line #	Year	Net DOC Rate Base	SL Dep.	Return	Cash Flows	Discount Factor	Probability of Success	Expected Present Value of Cash Flow ('d')
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1	\$ 100.00	\$ 4.00	\$ 13.09	\$ 17.09	0.89	97.5%	\$ 14.79
2	2	\$ 96.00	\$ 4.00	\$ 12.57	\$ 16.57	0.79	97.5%	\$ 12.73
3	3	\$ 92.00	\$ 4.00	\$ 12.04	\$ 16.04	0.70	97.5%	\$ 10.95
4	4	\$ 88.00	\$ 4.00	\$ 11.52	\$ 15.52	0.62	97.5%	\$ 9.40
5	5	\$ 84.00	\$ 4.00	\$ 11.00	\$ 15.00	0.55	97.5%	\$ 8.07
6	6	\$ 80.00	\$ 4.00	\$ 10.47	\$ 14.47	0.49	97.5%	\$ 6.91
7	7	\$ 76.00	\$ 4.00	\$ 9.95	\$ 13.95	0.44	97.5%	\$ 5.92
8	8	\$ 72.00	\$ 4.00	\$ 9.42	\$ 13.42	0.39	97.5%	\$ 5.06
9	9	\$ 68.00	\$ 4.00	\$ 8.90	\$ 12.90	0.34	97.5%	\$ 4.31
10	10	\$ 64.00	\$ 4.00	\$ 8.38	\$ 12.38	0.30	97.5%	\$ 3.67
11	11	\$ 60.00	\$ 4.00	\$ 7.85	\$ 11.85	0.27	97.5%	\$ 3.12
12	12	\$ 56.00	\$ 4.00	\$ 7.33	\$ 11.33	0.24	97.5%	\$ 2.65
13	13	\$ 52.00	\$ 4.00	\$ 6.81	\$ 10.81	0.21	97.5%	\$ 2.25
14	14	\$ 48.00	\$ 4.00	\$ 6.28	\$ 10.28	0.19	97.5%	\$ 1.90
15	15	\$ 44.00	\$ 4.00	\$ 5.76	\$ 9.76	0.17	97.5%	\$ 1.60
16	16	\$ 40.00	\$ 4.00	\$ 5.24	\$ 9.24	0.15	97.5%	\$ 1.34
17	17	\$ 36.00	\$ 4.00	\$ 4.71	\$ 8.71	0.13	97.5%	\$ 1.13
18	18	\$ 32.00	\$ 4.00	\$ 4.19	\$ 8.19	0.12	97.5%	\$ 0.94
19	19	\$ 28.00	\$ 4.00	\$ 3.67	\$ 7.67	0.10	97.5%	\$ 0.78
20	20	\$ 24.00	\$ 4.00	\$ 3.14	\$ 7.14	0.09	97.5%	\$ 0.65
21	21	\$ 20.00	\$ 4.00	\$ 2.62	\$ 6.62	0.08	97.5%	\$ 0.53
22	22	\$ 16.00	\$ 4.00	\$ 2.09	\$ 6.09	0.07	97.5%	\$ 0.43
23	23	\$ 12.00	\$ 4.00	\$ 1.57	\$ 5.57	0.06	97.5%	\$ 0.35
24	24	\$ 8.00	\$ 4.00	\$ 1.05	\$ 5.05	0.06	97.5%	\$ 0.28
25	25	\$ 4.00	\$ 4.00	\$ 0.52	\$ 4.52	0.05	97.5%	\$ 0.23

Total \$ 100.00

Sources and notes

- a = Assumes \$100 in Year 1. Thereafter [a] - [b] from previous year
- b = Straight line depreciation over 25 years; see Part IV.B.4 for finding
- c = [a] x [vii]
- d = [b] + [c]
- e = $1 / (1 + [iv])^{\text{Year}}$
- f = [iii]
- g = [d] x [e] x [f]

Appropriate Annual Rate of Return on Equity for TAPS, 1968-1996
(Percentage Rates)

Line No.	Year	Return on Equity, Excluding Special TAPS Risk Premium	Risk Premium Adjusted Back-Cast Return on Equity
		(a)	(b)
		Exhibit 18	a + .75 (sum of Risk Premiums From Exhibit 19, Schedules 1 & 2)
1	1968	11.53	12.28
2	1969	12.39	13.14
3	1970	12.85	13.60
4	1971	11.97	12.72
5	1972	11.81	12.56
6	1973	12.48	13.23
7	1974	13.15	13.90
8	1975	13.23	13.98
9	1976	13.06	13.81
10	1977	13.80	14.55
11	1978	14.67	15.42
12	1979	15.53	16.28
13	1980	17.50	18.25
14	1981	20.41	21.16
15	1982	20.06	20.81
16	1983	16.71	17.46
17	1984	17.91	18.66
18	1985	16.60	17.35
19	1986	15.29	16.04
20	1987	15.25	16.00
21	1988	15.67	16.42
22	1989	15.43	16.18
23	1990	15.60	16.35
24	1991	15.31	16.06
25	1992	14.86	15.61
26	1993	13.27	14.02
27	1994	13.92	14.67
28	1995	13.99	14.74
29	1996	13.53	14.28

Calculation of Appropriate AFUDC, 1988-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions AFUDC	Equity %	Equity Additions	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt %	Debt Additions	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property Additions	Property Balance																			
1	Sep-68	\$0.978	\$1	0.0%	\$0	100.0%	\$1	\$0	\$0	12.28%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
2	Oct-68	\$0.000	\$0	0.0%	\$0	100.0%	\$0	\$0	\$1	12.28%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
3	Nov-68	\$0.000	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	12.28%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
4	Dec-68	\$0.000	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	12.28%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
5	Jan-69	\$0.244	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
6	Feb-69	\$0.000	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
7	Mar-69	\$0.000	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
8	Apr-69	\$0.242	\$1	0.0%	\$0	100.0%	\$0	\$0	\$1	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
9	May-69	\$0.854	\$2	0.0%	\$0	100.0%	\$1	\$0	\$1	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
10	Jun-69	\$1.234	\$4	0.0%	\$0	100.0%	\$1	\$0	\$4	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
11	Jul-69	\$0.712	\$4	0.0%	\$0	100.0%	\$1	\$0	\$4	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
12	Aug-69	\$1.124	\$5	0.0%	\$0	100.0%	\$1	\$0	\$5	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
13	Sep-69	\$2.164	\$8	0.0%	\$0	100.0%	\$2	\$0	\$8	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
14	Oct-69	\$5.192	\$13	0.0%	\$0	100.0%	\$5	\$0	\$13	13.14%	\$0	\$0	\$0	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
15	Nov-69	\$6.530	\$19	0.0%	\$0	100.0%	\$7	\$0	\$19	13.14%	\$0	\$0	\$1	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
16	Dec-69	\$17.161	\$36	0.0%	\$1	100.0%	(\$1)	\$0	\$37	13.60%	\$0	\$0	\$1	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
17	Jan-70	(\$0.886)	\$0	0.0%	\$1	100.0%	(\$1)	\$0	\$36	13.60%	\$0	\$0	\$2	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
18	Feb-70	\$8.996	\$45	0.0%	\$0	100.0%	\$9	\$0	\$45	13.60%	\$1	\$0	\$2	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
19	Mar-70	\$11.607	\$56	0.0%	\$0	100.0%	\$12	\$0	\$57	13.60%	\$1	\$0	\$3	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
20	Apr-70	\$18.351	\$75	0.0%	\$0	100.0%	\$18	\$0	\$75	13.60%	\$1	\$0	\$4	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
21	May-70	\$16.351	\$91	0.0%	\$0	100.0%	\$17	\$0	\$92	13.60%	\$1	\$0	\$5	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
22	Jun-70	\$19.677	\$111	0.0%	\$4	100.0%	\$20	\$0	\$115	13.60%	\$2	\$0	\$6	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
23	Jul-70	\$28.292	\$139	0.0%	\$4	100.0%	\$28	\$0	\$144	13.60%	\$2	\$0	\$8	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
24	Aug-70	\$17.456	\$156	0.0%	\$0	100.0%	\$17	\$0	\$161	13.60%	\$2	\$0	\$9	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
25	Sep-70	\$24.416	\$181	0.0%	\$0	100.0%	\$24	\$0	\$185	13.60%	\$2	\$0	\$11	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
26	Oct-70	\$15.631	\$196	0.0%	\$0	100.0%	\$16	\$0	\$201	13.60%	\$2	\$0	\$14	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
27	Nov-70	\$8.254	\$205	0.0%	\$0	100.0%	\$8	\$0	\$209	13.60%	\$2	\$0	\$16	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
28	Dec-70	\$13.301	\$218	0.0%	\$12	100.0%	\$13	\$0	\$234	12.72%	\$2	\$0	\$19	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
29	Jan-71	\$0.630	\$219	0.0%	\$0	100.0%	\$1	\$0	\$235	12.72%	\$2	\$0	\$21	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
30	Feb-71	\$3.625	\$222	0.0%	\$0	100.0%	\$4	\$0	\$238	12.72%	\$3	\$0	\$24	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
31	Mar-71	\$4.975	\$227	0.0%	\$0	100.0%	\$5	\$0	\$243	12.72%	\$3	\$0	\$26	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
32	Apr-71	\$4.708	\$232	0.0%	\$0	100.0%	\$6	\$0	\$248	12.72%	\$3	\$0	\$29	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
33	May-71	\$6.100	\$238	0.0%	\$0	100.0%	\$6	\$0	\$254	12.72%	\$3	\$0	\$32	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
34	Jun-71	\$6.142	\$244	0.0%	\$15	100.0%	\$9	\$0	\$276	12.72%	\$3	\$0	\$34	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
35	Jul-71	\$9.385	\$254	0.0%	\$0	100.0%	\$13	\$0	\$285	12.72%	\$3	\$0	\$37	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
36	Aug-71	\$14.829	\$268	0.0%	\$0	100.0%	\$15	\$0	\$303	12.72%	\$3	\$0	\$41	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
37	Sep-71	\$12.079	\$279	0.0%	\$0	100.0%	\$14	\$0	\$310	12.72%	\$3	\$0	\$41	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
38	Oct-71	\$12.104	\$291	0.0%	\$0	100.0%	\$12	\$0	\$320	12.72%	\$3	\$0	\$47	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
39	Nov-71	\$5.851	\$307	0.0%	\$0	100.0%	\$16	\$0	\$332	12.72%	\$4	\$0	\$47	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
40	Dec-71	\$18.481	\$326	0.0%	\$0	100.0%	\$19	\$0	\$339	12.72%	\$4	\$0	\$51	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
41	Jan-72	(\$1.212)	\$325	0.0%	\$19	100.0%	(\$1)	\$0	\$377	12.56%	\$4	\$0	\$55	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
42	Feb-72	\$4.997	\$330	0.0%	\$0	100.0%	\$5	\$0	\$376	12.56%	\$4	\$0	\$59	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
43	Mar-72	\$4.452	\$335	0.0%	\$0	100.0%	\$4	\$0	\$381	12.56%	\$4	\$0	\$63	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
44	Apr-72	\$4.215	\$339	0.0%	\$0	100.0%	\$4	\$0	\$386	12.56%	\$4	\$0	\$67	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
45	May-72	\$5.853	\$345	0.0%	\$0	100.0%	\$6	\$0	\$390	12.56%	\$4	\$0	\$71	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
46	Jun-72	\$7.497	\$352	0.0%	\$24	100.0%	\$7	\$0	\$396	12.56%	\$4	\$0	\$75	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
47	Jul-72	\$4.158	\$356	0.0%	\$0	100.0%	\$4	\$0	\$427	12.56%	\$4	\$0	\$80	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
48	Aug-72	\$3.660	\$360	0.0%	\$0	100.0%	\$4	\$0	\$431	12.56%	\$5	\$0	\$84	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
49	Sep-72	\$2.846	\$363	0.0%	\$0	100.0%	\$3	\$0	\$435	12.56%	\$5	\$0	\$89	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
50	Oct-72	\$3.711	\$367	0.0%	\$0	100.0%	\$4	\$0	\$438	12.56%	\$5	\$0	\$93	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0

Calculation of Appropriate AFUDC, 1988-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions		Equity %	Equity Transfers	Equity Base	ROE	Incremental AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Deht AFUDC	Deht %	Deht Add's	Deht Transfers	Deht Base	COD	Incremental Deht AFUDC	Transfers Deht AFUDC	Deht AFUDC Balance
		Property Additions	Property Balance		Equity AFUDC	Equity AFUDC																
51	Nov-72	\$3,201	\$370	0.0%	\$0	\$0	100.0%	\$3	\$442	12.56%	\$5	\$0	\$96	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
52	Dec-72	\$6,653	\$376	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$102	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
53	Jan-73	\$2,465	\$375	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$108	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
54	Feb-73	\$2,465	\$375	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$113	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
55	Mar-73	\$2,465	\$376	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$116	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
56	Apr-73	\$3,837	\$382	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$116	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
57	May-73	\$3,837	\$382	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$116	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
58	Jun-73	\$3,686	\$389	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$120	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
59	Jul-73	\$3,982	\$393	0.0%	\$27	\$3	100.0%	\$7	\$445	12.56%	\$5	\$0	\$124	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
60	Aug-73	\$5,164	\$398	0.0%	\$32	\$3	100.0%	\$5	\$491	13.29%	\$6	\$0	\$134	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
61	Sep-73	\$4,630	\$402	0.0%	\$32	\$3	100.0%	\$5	\$537	13.29%	\$6	\$0	\$146	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
62	Oct-73	\$7,992	\$408	0.0%	\$0	\$0	100.0%	\$5	\$537	13.29%	\$6	\$0	\$152	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
63	Nov-73	\$4,485	\$416	0.0%	\$0	\$0	100.0%	\$5	\$542	13.29%	\$6	\$0	\$156	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
64	Dec-73	\$6,412	\$427	0.0%	\$0	\$0	100.0%	\$6	\$550	13.29%	\$6	\$0	\$164	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
65	Jan-74	\$21,430	\$448	0.0%	\$36	\$0	100.0%	\$6	\$555	13.29%	\$6	\$0	\$170	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
66	Feb-74	\$19,355	\$467	0.0%	\$36	\$0	100.0%	\$21	\$597	13.90%	\$7	\$0	\$177	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
67	Mar-74	\$21,796	\$489	0.0%	\$0	\$0	100.0%	\$22	\$618	13.90%	\$7	\$0	\$184	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
68	Apr-74	\$25,349	\$514	0.0%	\$0	\$0	100.0%	\$25	\$659	13.90%	\$8	\$0	\$199	\$0	0.0%	\$0	\$0	\$0	0.00%	\$0	\$0	\$0
69	May-74	\$25,309	\$540	0.0%	\$0	\$0	67.0%	\$17	\$685	13.90%	\$8	\$0	\$207	\$0	0.0%	\$8	\$0	\$8	8.74%	\$0	\$0	\$0
70	Jun-74	\$33,131	\$573	0.0%	\$45	\$0	67.0%	\$22	\$702	13.90%	\$8	\$0	\$215	\$0	0.0%	\$11	\$0	\$19	8.74%	\$0	\$0	\$0
71	Jul-74	\$69,084	\$642	0.0%	\$45	\$0	67.0%	\$46	\$769	13.90%	\$9	\$0	\$234	\$0	0.0%	\$32	\$0	\$42	8.74%	\$0	\$0	\$0
72	Aug-74	\$95,964	\$826	0.0%	\$0	\$0	67.0%	\$64	\$815	13.90%	\$10	\$0	\$244	\$0	0.0%	\$29	\$0	\$74	8.74%	\$1	\$0	\$1
73	Sep-74	\$160,556	\$987	0.0%	\$0	\$0	67.0%	\$59	\$880	13.90%	\$11	\$0	\$255	\$0	0.0%	\$53	\$0	\$103	8.74%	\$1	\$0	\$2
74	Oct-74	\$106,622	\$1,094	0.0%	\$0	\$0	67.0%	\$71	\$939	13.90%	\$12	\$0	\$267	\$0	0.0%	\$53	\$0	\$156	8.74%	\$1	\$0	\$3
75	Nov-74	\$265,876	\$1,359	0.0%	\$0	\$0	67.0%	\$178	\$1,118	13.90%	\$13	\$0	\$280	\$0	0.0%	\$88	\$0	\$191	8.74%	\$1	\$0	\$4
76	Dec-74	\$40,513	\$1,400	0.0%	\$64,487	\$53,44%	53.4%	\$22	\$1,361	13.90%	\$16	\$0	\$296	\$4	46.6%	\$19	\$0	\$283	8.80%	\$2	\$0	\$6
77	Jan-75	\$131,521	\$1,531	0.0%	\$0	\$0	53.4%	\$70	\$1,382	13.90%	\$17	\$0	\$312	\$0	46.6%	\$61	\$0	\$302	8.80%	\$3	\$0	\$9
78	Feb-75	\$256,892	\$1,788	0.0%	\$0	\$0	53.4%	\$137	\$1,453	13.90%	\$17	\$0	\$329	\$0	46.6%	\$120	\$0	\$363	8.80%	\$3	\$0	\$11
79	Mar-75	\$107,239	\$1,896	0.0%	\$0	\$0	53.4%	\$57	\$1,590	13.90%	\$19	\$0	\$347	\$0	46.6%	\$50	\$0	\$483	8.80%	\$4	\$0	\$15
80	Apr-75	\$262,621	\$2,138	0.0%	\$0	\$0	53.4%	\$140	\$1,647	13.90%	\$21	\$0	\$366	\$0	46.6%	\$122	\$0	\$533	8.80%	\$4	\$0	\$19
81	May-75	\$381,761	\$2,740	0.0%	\$107	\$3	53.4%	\$310	\$2,205	13.90%	\$26	\$0	\$387	\$19	46.6%	\$271	\$0	\$655	8.80%	\$5	\$0	\$24
82	Jun-75	\$58,262	\$2,682	0.0%	\$107	\$3	53.4%	\$310	\$2,205	13.90%	\$26	\$0	\$413	\$19	46.6%	\$271	\$0	\$655	8.80%	\$5	\$0	\$24
83	Jul-75	\$38,262	\$2,963	0.0%	\$0	\$0	53.4%	\$150	\$2,174	13.90%	\$25	\$0	\$438	\$19	46.6%	\$311	\$0	\$619	8.80%	\$7	\$0	\$30
84	Aug-75	\$648,093	\$3,612	0.0%	\$0	\$0	53.4%	\$346	\$2,524	13.90%	\$27	\$0	\$465	\$0	46.6%	\$302	\$0	\$1,050	8.80%	\$8	\$0	\$45
85	Sep-75	\$24,446	\$3,816	0.0%	\$0	\$0	53.4%	\$109	\$2,670	13.90%	\$27	\$0	\$465	\$0	46.6%	\$302	\$0	\$1,050	8.80%	\$8	\$0	\$45
86	Oct-75	\$34,446	\$4,096	0.0%	\$0	\$0	53.4%	\$109	\$2,670	13.90%	\$27	\$0	\$465	\$0	46.6%	\$302	\$0	\$1,050	8.80%	\$8	\$0	\$45
87	Nov-75	\$130,187	\$4,268	0.0%	\$0	\$0	53.4%	\$396	\$3,204	13.90%	\$34	\$0	\$560	\$0	46.6%	\$384	\$0	\$1,574	8.80%	\$11	\$0	\$55
88	Dec-75	\$209,471	\$4,497	0.0%	\$176	\$0	50.9%	\$117	\$3,166	13.81%	\$37	\$0	\$600	\$53	49.1%	\$113	\$0	\$1,712	8.74%	\$12	\$0	\$59
89	Jan-76	\$322,281	\$4,699	0.0%	\$0	\$0	50.9%	\$103	\$3,193	13.81%	\$38	\$0	\$638	\$0	49.1%	\$99	\$0	\$1,824	8.74%	\$13	\$0	\$103
90	Feb-76	\$177,661	\$4,877	0.0%	\$0	\$0	50.9%	\$90	\$3,416	13.81%	\$40	\$0	\$677	\$0	49.1%	\$87	\$0	\$1,923	8.74%	\$14	\$0	\$117
91	Mar-76	\$261,510	\$5,139	0.0%	\$0	\$0	50.9%	\$133	\$3,506	13.81%	\$40	\$0	\$717	\$0	49.1%	\$128	\$0	\$2,011	8.74%	\$15	\$0	\$131
92	Apr-76	\$275,789	\$5,414	0.0%	\$0	\$0	50.9%	\$140	\$3,639	13.81%	\$42	\$0	\$759	\$0	49.1%	\$135	\$0	\$2,139	8.74%	\$16	\$0	\$147
93	May-76	\$219,714	\$5,634	0.0%	\$240	\$0	50.9%	\$112	\$3,780	13.81%	\$44	\$0	\$803	\$37	49.1%	\$108	\$0	\$2,274	8.74%	\$17	\$0	\$164
94	Jun-76	\$297,448	\$5,932	0.0%	\$0	\$0	50.9%	\$152	\$4,132	13.81%	\$49	\$0	\$850	\$37	49.1%	\$146	\$0	\$2,469	8.74%	\$18	\$0	\$181
95	Jul-76	\$266,383	\$6,168	0.0%	\$0	\$0	50.9%	\$120	\$4,283	13.81%	\$51	\$0	\$900	\$0	49.1%	\$116	\$0	\$2,615	8.74%	\$19	\$0	\$200
96	Aug-76	\$231,738	\$6,400	0.0%	\$0	\$0	50.9%	\$118	\$4,404	13.81%	\$51	\$0	\$950	\$0	49.1%	\$114	\$0	\$2,731	8.74%	\$20	\$0	\$220
97	Sep-76	\$135,767	\$6,536	0.0%	\$0	\$0	50.9%	\$69	\$4,522	13.81%	\$52	\$0	\$1,002	\$0	49.1%	\$67	\$0	\$2,844	8.74%	\$21	\$0	\$241
98	Oct-76	\$209,300	\$6,695	0.0%	\$0	\$0	50.9%	\$81	\$4,591	13.81%	\$53	\$0	\$1,055	\$0	49.1%	\$78	\$0	\$2,911	8.74%	\$21	\$0	\$241
99	Nov-76	\$207,590	\$6,902	0.0%	\$0	\$0	50.9%	\$106	\$4,672	13.81%	\$54	\$0	\$1,109	\$0	49.1%	\$102	\$0	\$2,989	8.74%	\$22	\$0	\$262
100	Dec-76																					

Calculation of Appropriate AFUDC, 1988-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions		Equity %	Equity Additions	Equity Transfers	Equity Base	ROE	Incremental AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt %	Debt Additions	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property Additions	Transfers to Property		Equity AFUDC	Equity AFUDC																	
101	Jan-77	\$49,871	\$0	0.0%	\$306	\$0	50.5%	\$25	\$0	\$5,084	14.55%	\$62	\$0	\$1,171	\$121	49.5%	\$25	\$0	\$3,212	8.82%	\$24	\$0	\$308
102	Feb-77	\$108,028	\$0	0.0%	\$0	\$55	50.5%	\$180	\$0	\$5,109	14.55%	\$62	\$0	\$1,233	\$0	49.5%	\$53	\$0	\$3,256	8.82%	\$24	\$0	\$332
103	Mar-77	\$355,530	\$0	0.0%	\$0	\$0	50.5%	\$0	\$0	\$5,164	14.55%	\$63	\$0	\$1,295	\$0	49.5%	\$176	\$0	\$3,290	8.82%	\$24	\$0	\$356
104	Apr-77	\$455,571	\$0	0.0%	\$0	\$23	50.5%	\$23	\$0	\$5,343	14.55%	\$63	\$0	\$1,360	\$0	49.5%	\$23	\$0	\$3,466	8.82%	\$24	\$0	\$381
105	May-77	\$111,126	\$0	10.0%	\$0	\$66	50.5%	\$66	\$0	\$5,369	14.55%	\$63	\$0	\$1,425	\$0	49.5%	\$0	\$0	\$3,448	8.82%	\$26	\$0	\$407
106	Jun-77	\$111,126	\$7,411	10.0%	\$0	\$5,407	50.5%	\$5,407	\$0	\$5,407	14.55%	\$63	\$1,491	\$1,491	\$0	49.5%	\$23	\$3,427	\$3,453	8.82%	\$26	\$410	\$436
107	Jul-77	\$313,361	\$0	0.0%	\$0	\$0	50.5%	\$263	\$0	\$5,742	14.55%	\$0	\$0	\$0	\$0	49.5%	\$238	\$0	\$3,530	8.86%	\$0	\$0	\$359
108	Aug-77	\$0,000	\$334	64.1%	\$0	\$169	50.5%	\$0	\$28	\$94	14.55%	\$3	\$0	\$3	\$0	49.5%	\$0	\$2	\$358	8.86%	\$0	\$0	\$32
109	Sep-77	\$0,000	\$55	29.5%	\$0	\$132	50.5%	\$0	\$0	\$67	14.55%	\$1	\$1	\$5	\$0	49.5%	\$0	\$27	\$93	8.86%	\$1	\$1	\$2
110	Oct-77	\$0,000	\$1	0.5%	\$0	\$0	50.5%	\$0	\$0	\$0	14.55%	\$1	\$0	\$4	\$0	49.5%	\$0	\$0	\$65	8.86%	\$0	\$0	\$2
111	Nov-77	\$0,000	\$1	0.5%	\$0	\$0	50.5%	\$0	\$0	\$66	14.55%	\$1	\$0	\$5	\$0	49.5%	\$0	\$0	\$65	8.86%	\$0	\$0	\$2
112	Dec-77	\$1,466	\$3	2.1%	\$0	\$139	50.5%	\$1	\$1	\$66	14.55%	\$1	\$0	\$6	\$0	49.5%	\$1	\$1	\$65	8.86%	\$0	\$0	\$3
113	Jan-78	\$0,000	\$2	1.3%	\$0	\$127	50.5%	\$0	\$1	\$65	14.55%	\$1	\$0	\$6	\$0	49.5%	\$0	\$0	\$64	8.86%	\$0	\$0	\$4
114	Feb-78	\$0,000	\$73	54.7%	\$0	\$37	50.5%	\$0	\$37	\$64	14.55%	\$1	\$4	\$4	\$0	49.5%	\$0	\$19	\$63	8.88%	\$0	\$2	\$2
115	Mar-78	\$0,000	\$19	72.7%	\$0	\$20	50.5%	\$0	\$20	\$27	15.42%	\$0	\$1	\$1	\$0	49.5%	\$0	\$19	\$27	8.88%	\$0	\$2	\$1
116	Apr-78	\$78,797	\$42	44.6%	\$0	\$52	50.5%	\$40	\$21	\$7	15.42%	\$0	\$0	\$1	\$0	49.5%	\$39	\$21	\$7	8.88%	\$0	\$0	\$1
117	May-78	(\$15,413)	\$0	0.5%	\$0	\$0	50.5%	(\$8)	\$0	\$26	15.42%	\$0	\$0	\$1	\$0	49.5%	(\$6)	\$0	\$26	8.88%	\$0	\$0	\$1
118	Jun-78	(\$11,412)	\$0	1.7%	\$0	\$0	50.5%	(\$6)	\$0	\$18	15.42%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$18	8.88%	\$0	\$0	\$1
119	Jul-78	\$0,184	\$0	1.3%	\$0	\$24	50.5%	\$0	\$0	\$12	15.42%	\$0	\$0	\$2	\$0	49.5%	\$7	\$0	\$12	8.88%	\$0	\$0	\$1
120	Aug-78	\$14,907	\$1	2.6%	\$0	\$38	50.5%	\$8	\$1	\$12	15.42%	\$0	\$0	\$2	\$0	49.5%	\$32	\$1	\$19	8.88%	\$0	\$0	\$1
121	Sep-78	\$64,862	\$3	3.6%	\$0	\$100	50.5%	\$33	\$2	\$51	15.42%	\$0	\$0	\$2	\$0	49.5%	(\$43)	\$0	\$50	8.88%	\$0	\$0	\$1
122	Oct-78	(\$86,230)	\$1	5.4%	\$0	\$20	50.5%	(\$4)	\$0	\$7	15.42%	\$0	\$0	\$2	\$0	49.5%	\$4	\$0	\$6	8.88%	\$0	\$0	\$1
123	Nov-78	\$8,134	\$1	10.1%	\$0	\$37	50.5%	\$37	\$5	\$10	15.42%	\$0	\$0	\$2	\$0	49.5%	\$36	\$5	\$10	8.88%	\$0	\$0	\$1
124	Dec-78	\$73,421	\$10	0.7%	\$0	\$84	50.5%	(\$4)	\$0	\$43	16.28%	\$1	\$0	\$3	\$0	49.5%	(\$4)	\$0	\$42	8.90%	\$0	\$0	\$2
125	Jan-79	\$7,144	\$1	0.2%	\$0	\$77	50.5%	\$1	\$0	\$39	16.28%	\$1	\$0	\$3	\$0	49.5%	\$1	\$0	\$38	8.90%	\$0	\$0	\$2
126	Feb-79	\$1,699	\$0	0.0%	\$0	\$0	50.5%	\$1	\$0	\$40	16.28%	\$1	\$0	\$4	\$0	49.5%	\$0	\$0	\$39	8.90%	\$0	\$0	\$2
127	Mar-79	\$0,725	\$0	0.2%	\$0	\$82	50.5%	\$2	\$0	\$40	16.28%	\$1	\$0	\$4	\$0	49.5%	\$2	\$0	\$39	8.90%	\$0	\$0	\$2
128	Apr-79	\$3,515	\$0	0.3%	\$0	\$85	50.5%	\$5	\$0	\$41	16.28%	\$1	\$0	\$5	\$0	49.5%	\$5	\$0	\$41	8.90%	\$0	\$0	\$3
129	May-79	\$3,451	\$0	0.8%	\$0	\$94	50.5%	\$5	\$0	\$48	16.28%	\$1	\$0	\$6	\$0	49.5%	\$5	\$0	\$47	8.90%	\$0	\$0	\$3
130	Jun-79	\$9,331	\$0	0.1%	\$0	\$99	50.5%	\$5	\$0	\$50	16.28%	\$1	\$0	\$6	\$0	49.5%	\$4	\$0	\$49	8.90%	\$0	\$0	\$3
131	Jul-79	\$5,606	\$1	0.1%	\$0	\$108	50.5%	\$4	\$1	\$54	16.28%	\$1	\$0	\$7	\$0	49.5%	\$4	\$1	\$53	8.90%	\$0	\$0	\$4
132	Aug-79	\$5,536	\$0	1.1%	\$0	\$117	50.5%	\$5	\$1	\$54	16.28%	\$1	\$0	\$7	\$0	49.5%	\$5	\$1	\$53	8.90%	\$0	\$0	\$4
133	Sep-79	\$10,836	\$1	27.9%	\$0	\$89	50.5%	\$13	\$27	\$59	16.28%	\$1	\$3	\$5	\$0	49.5%	\$13	\$27	\$58	8.90%	\$0	\$2	\$2
134	Oct-79	\$25,480	\$4	0.0%	\$0	\$96	50.5%	\$4	\$0	\$45	16.28%	\$1	\$0	\$6	\$0	49.5%	\$4	\$0	\$44	8.90%	\$0	\$0	\$3
135	Nov-79	\$7,566	\$0	10.0%	\$0	\$71	50.5%	\$6	\$0	\$46	16.28%	\$1	\$0	\$6	\$0	49.5%	\$6	\$0	\$44	8.90%	\$0	\$0	\$3
136	Dec-79	\$12,538	\$17	0.7%	\$0	\$91	50.5%	\$8	\$1	\$46	16.28%	\$1	\$1	\$7	\$0	49.5%	\$12	\$1	\$45	8.90%	\$0	\$1	\$3
137	Jan-80	\$31,313	\$1	10.0%	\$0	\$146	50.5%	\$14	\$0	\$57	18.25%	\$1	\$0	\$7	\$0	49.5%	\$12	\$0	\$56	8.98%	\$0	\$0	\$4
138	Feb-80	\$7,678	\$1	0.2%	\$0	\$130	50.5%	\$4	\$0	\$61	18.25%	\$1	\$0	\$8	\$0	49.5%	\$4	\$0	\$60	8.98%	\$0	\$0	\$4
139	Mar-80	\$13,194	\$0	0.3%	\$0	\$148	50.5%	\$4	\$0	\$63	18.25%	\$1	\$0	\$8	\$0	49.5%	\$7	\$0	\$63	8.98%	\$0	\$0	\$5
140	Apr-80	\$73,319	\$1	0.5%	\$0	\$141	50.5%	\$7	\$0	\$65	18.25%	\$1	\$0	\$9	\$0	49.5%	\$7	\$0	\$70	8.98%	\$0	\$0	\$5
141	May-80	\$9,317	\$0	0.3%	\$0	\$150	50.5%	\$5	\$0	\$71	18.25%	\$1	\$0	\$10	\$0	49.5%	\$5	\$0	\$71	8.98%	\$1	\$0	\$5
142	Jun-80	\$31,464	\$1	0.4%	\$0	\$160	50.5%	\$6	\$0	\$75	18.25%	\$1	\$0	\$11	\$0	49.5%	\$6	\$0	\$74	8.98%	\$1	\$0	\$6
143	Jul-80	\$14,285	\$1	0.7%	\$0	\$174	50.5%	\$7	\$0	\$81	18.25%	\$1	\$0	\$12	\$0	49.5%	\$7	\$0	\$79	8.98%	\$1	\$0	\$6
144	Aug-80	\$12,716	\$1	0.3%	\$0	\$183	50.5%	\$6	\$1	\$88	18.25%	\$1	\$0	\$14	\$0	49.5%	\$6	\$1	\$86	8.98%	\$1	\$0	\$7
145	Sep-80	\$12,692	(\$0)	15.2%	\$0	\$15	50.5%	\$6	\$15	\$85	18.25%	\$1	\$2	\$13	\$0	49.5%	\$6	\$15	\$92	8.98%	\$1	(\$0)	\$7
146	Oct-80	\$14,194	(\$0)	-0.1%	\$0	\$182	50.5%	\$7	(\$0)	\$92	18.25%	\$1	\$3	\$14	\$0	49.5%	\$7	(\$0)	\$93	8.98%	\$1	\$7	\$7
147	Nov-80	\$7,321	\$1	0.5%	\$0	\$189	50.5%	\$4	\$0	\$92	18.25%	\$1	\$0	\$16	\$0	49.5%	\$4	\$0	\$93	8.98%	\$1	\$3	\$6
148	Dec-80	\$3,296	\$71	37.9%	\$0	\$36	50.5%	(\$1)	\$0	\$95	18.25%	\$1	\$6	\$11	\$0	49.5%	(\$31)	\$0	\$93	8.98%	\$1	\$3	\$6
149	Jan-81	(\$8,296)	\$20	18.5%	\$0	\$59	50.5%	(\$4)	\$10	\$59	21.16%	\$1	\$2	\$10	\$0	49.5%	(\$4)	\$10	\$58	9.01%	\$0	\$1	\$5
150	Feb-81	\$1,749	\$1	1.0%	\$0	\$89	50.5%	\$1	\$0	\$45	21.16%	\$1	\$1	\$11	\$0	49.5%	\$1	\$0	\$44	9.01%	\$0	\$0	\$5

Calculation of Appropriate AFUDC, 1986-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions Equity AFUDC	Equity Adits %	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt %	Debt Adits	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property Additions	Transfers to Property																		
151	Mar-81	\$3,919	\$2	2.3%	\$0	50.5%	\$2	\$1	21.60%	\$1	\$0	\$11	\$0	49.5%	\$2	\$1	\$44	9.01%	\$0	\$0	\$5
152	Apr-81	(\$10,878)	\$0	0.2%	\$0	50.5%	(\$5)	\$0	21.60%	\$1	\$0	\$12	\$0	49.5%	\$2	\$0	\$45	9.01%	\$0	\$0	\$6
153	May-81	\$3,726	\$1	1.2%	\$0	50.5%	\$2	\$0	21.60%	\$1	\$0	\$13	\$0	49.5%	\$2	\$0	\$40	9.01%	\$0	\$0	\$6
154	Jun-81	\$7,222	\$2	2.7%	\$0	50.5%	\$4	\$1	21.60%	\$1	\$0	\$13	\$0	49.5%	\$4	\$1	\$41	9.01%	\$0	\$0	\$6
155	Jul-81	\$1,256	\$2	1.9%	\$0	50.5%	\$11	\$1	21.60%	\$1	\$0	\$14	\$0	49.5%	\$1	\$1	\$43	9.01%	\$0	\$0	\$7
156	Aug-81	\$9,824	\$2	1.9%	\$0	50.5%	\$2	\$1	21.60%	\$1	\$0	\$15	\$0	49.5%	\$1	\$1	\$45	9.01%	\$0	\$0	\$7
157	Sep-81	\$13,808	\$1	1.1%	\$0	50.5%	\$7	\$1	21.60%	\$1	\$0	\$15	\$0	49.5%	\$7	\$1	\$57	9.01%	\$0	\$0	\$7
158	Oct-81	\$9,272	\$3	2.3%	\$0	50.5%	\$5	\$2	21.60%	\$1	\$0	\$16	\$0	49.5%	\$5	\$1	\$64	9.01%	\$0	\$0	\$7
159	Nov-81	\$1,634	\$0	0.3%	\$0	50.5%	\$1	\$0	21.60%	\$1	\$0	\$17	\$0	49.5%	\$1	\$0	\$67	9.01%	\$1	\$0	\$8
160	Dec-81	(\$18,815)	\$45	38.1%	\$0	50.5%	(\$10)	\$37	20.81%	\$1	\$2	\$12	\$0	49.5%	(\$9)	\$22	\$67	9.01%	\$1	\$3	\$5
161	Jan-82	(\$39,518)	\$6	16.9%	\$0	50.5%	(\$20)	\$3	20.81%	\$1	\$2	\$11	\$0	49.5%	\$2	\$3	\$36	9.03%	\$0	\$1	\$5
162	Feb-82	\$3,121	\$1	3.6%	\$0	50.5%	\$2	\$1	20.81%	\$0	\$0	\$10	\$0	49.5%	\$2	\$1	\$14	9.03%	\$0	\$0	\$5
163	Mar-82	\$3,745	\$2	3.4%	\$0	50.5%	\$2	\$1	20.81%	\$0	\$0	\$10	\$0	49.5%	\$2	\$1	\$15	9.03%	\$0	\$0	\$5
164	Apr-82	\$3,745	\$2	6.8%	\$0	50.5%	\$2	\$1	20.81%	\$0	\$1	\$10	\$0	49.5%	\$2	\$1	\$15	9.03%	\$0	\$0	\$4
165	May-82	\$5,213	\$1	2.7%	\$0	50.5%	\$3	\$1	20.81%	\$0	\$0	\$10	\$0	49.5%	\$3	\$0	\$16	9.03%	\$0	\$0	\$4
166	Jun-82	\$10,069	\$1	1.8%	\$0	50.5%	\$5	\$0	20.81%	\$0	\$0	\$10	\$0	49.5%	\$5	\$0	\$18	9.03%	\$0	\$0	\$4
167	Jul-82	\$5,197	\$1	1.6%	\$0	50.5%	\$3	\$0	20.81%	\$0	\$0	\$10	\$0	49.5%	\$3	\$0	\$22	9.03%	\$0	\$0	\$5
168	Aug-82	\$12,156	\$18	28.9%	\$0	50.5%	\$6	\$9	20.81%	\$0	\$3	\$8	\$0	49.5%	\$6	\$9	\$24	9.03%	\$0	\$1	\$3
169	Sep-82	\$9,022	\$10	19.3%	\$0	50.5%	\$5	\$5	20.81%	\$0	\$1	\$7	\$0	49.5%	\$5	\$2	\$22	9.03%	\$0	\$1	\$3
170	Oct-82	\$6,323	\$9	19.4%	\$0	50.5%	\$3	\$5	20.81%	\$0	\$1	\$6	\$0	49.5%	\$3	\$5	\$21	9.03%	\$0	\$1	\$3
171	Nov-82	\$0,543	\$4	10.4%	\$0	50.5%	\$0	\$1	20.81%	\$0	\$1	\$5	\$0	49.5%	\$0	\$2	\$20	9.03%	\$0	\$0	\$2
172	Dec-82	\$0,440	\$3	7.9%	\$0	50.5%	\$0	\$1	20.81%	\$0	\$0	\$5	\$0	49.5%	\$0	\$1	\$18	9.03%	\$0	\$0	\$2
173	Jan-83	\$1,446	\$1	1.9%	\$0	50.5%	\$1	\$0	17.46%	\$0	\$0	\$5	\$0	49.5%	\$1	\$0	\$17	9.08%	\$0	\$0	\$2
174	Feb-83	\$2,967	\$0	0.6%	\$0	50.5%	\$1	\$0	17.46%	\$0	\$0	\$6	\$0	49.5%	\$1	\$0	\$17	9.08%	\$0	\$0	\$3
175	Mar-83	\$12,156	\$13	26.9%	\$0	50.5%	\$6	\$7	17.46%	\$0	\$2	\$4	\$0	49.5%	\$6	\$7	\$18	9.08%	\$0	\$1	\$2
176	Apr-83	\$11,964	\$9	18.5%	\$0	50.5%	\$6	\$4	17.46%	\$0	\$1	\$4	\$0	49.5%	\$6	\$4	\$18	9.08%	\$0	\$0	\$2
177	May-83	\$5,997	\$1	2.1%	\$0	50.5%	\$3	\$0	17.46%	\$0	\$0	\$4	\$0	49.5%	\$3	\$0	\$19	9.08%	\$0	\$0	\$2
178	Jun-83	\$6,524	\$0	0.9%	\$0	50.5%	\$3	\$0	17.46%	\$0	\$0	\$4	\$0	49.5%	\$3	\$0	\$22	9.08%	\$0	\$0	\$2
179	Jul-83	\$3,630	\$0	0.4%	\$0	50.5%	\$2	\$0	17.46%	\$0	\$0	\$5	\$0	49.5%	\$2	\$0	\$25	9.08%	\$0	\$0	\$2
180	Aug-83	\$1,387	\$1	1.7%	\$0	50.5%	(\$1)	\$0	17.46%	\$0	\$0	\$5	\$0	49.5%	(\$1)	\$0	\$26	9.08%	\$0	\$0	\$2
181	Sep-83	\$5,401	\$42	74.5%	\$0	50.5%	\$3	\$21	17.46%	\$0	\$4	\$2	\$0	49.5%	\$3	\$21	\$25	9.08%	\$0	\$2	\$1
182	Oct-83	\$3,740	\$4	11.4%	\$0	50.5%	\$2	\$1	17.46%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$7	9.08%	\$0	\$0	\$1
183	Nov-83	\$2,091	\$4	20.5%	\$0	50.5%	\$2	\$8	17.46%	\$0	\$0	\$1	\$0	49.5%	\$2	\$2	\$8	9.08%	\$0	\$0	\$1
184	Dec-83	\$2,933	\$3	14.7%	\$0	50.5%	\$3	\$2	16.66%	\$0	\$0	\$1	\$0	49.5%	\$3	\$2	\$8	9.08%	\$0	\$0	\$1
185	Jan-84	\$2,443	\$0	3.9%	\$0	50.5%	\$1	\$9	16.66%	\$0	\$0	\$1	\$0	49.5%	\$1	\$0	\$9	9.13%	\$0	\$0	\$1
186	Feb-84	\$3,619	\$0	2.1%	\$0	50.5%	\$3	\$0	16.66%	\$0	\$0	\$1	\$0	49.5%	\$3	\$0	\$10	9.13%	\$0	\$0	\$1
187	Mar-84	\$2,878	\$2	8.9%	\$0	50.5%	\$2	\$1	16.66%	\$0	\$0	\$1	\$0	49.5%	\$2	\$1	\$11	9.13%	\$0	\$0	\$1
188	Apr-84	\$3,078	\$2	8.9%	\$0	50.5%	\$2	\$1	16.66%	\$0	\$0	\$1	\$0	49.5%	\$2	\$1	\$11	9.13%	\$0	\$0	\$1
189	May-84	\$4,588	\$3	11.2%	\$0	50.5%	\$2	\$1	16.66%	\$0	\$0	\$2	\$0	49.5%	\$2	\$2	\$12	9.13%	\$0	\$0	\$1
190	Jun-84	\$2,182	\$1	4.0%	\$0	50.5%	\$1	\$1	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$1	\$13	9.13%	\$0	\$0	\$1
191	Jul-84	\$2,806	\$1	3.9%	\$0	50.5%	\$1	\$1	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$1	\$13	9.13%	\$0	\$0	\$1
192	Aug-84	\$1,364	\$0	0.9%	\$0	50.5%	\$1	\$0	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$0	\$14	9.13%	\$0	\$0	\$1
193	Sep-84	\$1,420	\$0	1.5%	\$0	50.5%	\$1	\$0	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$0	\$15	9.13%	\$0	\$0	\$1
194	Oct-84	\$1,504	\$6	17.8%	\$0	50.5%	\$1	\$3	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$3	\$15	9.13%	\$0	\$0	\$1
195	Nov-84	\$2,740	\$2	6.7%	\$0	50.5%	\$1	\$3	16.66%	\$0	\$0	\$2	\$0	49.5%	\$1	\$3	\$15	9.13%	\$0	\$0	\$1
196	Dec-84	\$15,530	\$42	100.0%	\$0	50.5%	\$8	\$21	16.66%	\$0	\$2	\$0	\$0	49.5%	\$8	\$21	\$13	9.13%	\$0	\$1	\$0
197	Jan-85	\$8,145	\$0	1.7%	\$0	50.5%	\$4	\$0	17.35%	(\$0)	\$0	(\$0)	\$0	49.5%	\$4	\$0	(\$0)	9.16%	(\$0)	\$1	(\$0)
198	Feb-85	\$4,541	\$0	0.4%	\$0	50.5%	\$2	\$0	17.35%	(\$0)	(\$0)	(\$0)	\$0	49.5%	\$2	\$0	\$4	9.16%	(\$0)	(\$0)	(\$0)
199	Mar-85	\$5,035	\$0	1.2%	\$0	50.5%	\$3	\$0	17.35%	\$0	\$0	\$0	\$0	49.5%	\$3	\$0	\$6	9.16%	\$0	\$0	\$0
200	Apr-85	\$5,114	\$1	5.8%	\$0	50.5%	\$3	\$1	17.35%	\$0	\$0	\$0	\$0	49.5%	\$3	\$1	\$9	9.16%	\$0	\$0	\$0

Calculation of Appropriate AFUDC, 1986-1996
(millions \$)

Line No.	Date	Construction Work in Progress			In-service Ratio	Compounding Additions Equity AFUDC	Equity Addns %	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt %	Debt Addn's	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property Additions	Transfers to Property	Property Balance																		
201	May-85	\$3,059	\$1	\$24	2.7%	\$0	50.5%	\$2	\$11	17.35%	\$0	\$0	\$0	\$0	49.5%	\$2	\$0	\$10	9.16%	\$0	\$0	\$0
202	Jun-85	\$1,075	\$25	\$0	100.0%	\$0	50.5%	\$1	(\$0)	17.35%	\$0	\$0	(\$0)	\$0	49.5%	\$2	\$1	(\$0)	9.16%	(\$0)	\$0	(\$0)
203	Jul-85	\$3,104	\$3	\$0	87.7%	\$0	50.5%	\$2	\$1	17.35%	\$0	(\$0)	\$0	\$0	49.5%	\$2	\$0	\$0	9.16%	\$0	\$0	\$0
204	Aug-85	\$1,274	\$1	\$1	43.8%	\$0	50.5%	\$1	\$0	17.35%	\$0	(\$0)	\$0	\$0	49.5%	\$1	\$0	\$0	9.16%	\$0	\$0	\$0
205	Sep-85	\$1,274	\$0	\$2	12.6%	\$0	50.5%	\$1	\$0	17.35%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$0	9.16%	\$0	\$0	\$0
206	Oct-85	\$1,271	\$1	\$2	37.5%	\$0	50.5%	\$1	\$0	17.35%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$0	9.16%	\$0	\$0	\$0
207	Nov-85	\$0,414	\$0	\$2	17.2%	\$0	50.5%	\$0	\$0	17.35%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.16%	\$0	\$0	\$0
208	Dec-85	\$1,097	\$0	\$1	0.0%	\$0	50.5%	(\$1)	\$0	17.35%	\$0	\$0	\$0	\$0	49.5%	(\$1)	\$0	\$0	9.16%	\$0	\$0	\$0
209	Jan-86	\$1,426	\$1	\$2	24.0%	\$0	50.5%	\$1	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$0	9.17%	\$0	\$0	\$0
210	Feb-86	\$0,835	\$0	\$2	16.9%	\$0	50.5%	\$0	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.17%	\$0	\$0	\$0
211	Mar-86	\$0,403	\$0	\$2	1.7%	\$0	50.5%	\$0	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.17%	\$0	\$0	\$0
212	Apr-86	\$1,529	\$2	\$3	5.4%	\$0	50.5%	\$0	\$1	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$2	9.17%	\$0	\$0	\$0
213	May-86	\$3,016	\$1	\$5	13.7%	\$0	50.5%	\$2	\$1	16.04%	\$0	\$0	\$0	\$0	49.5%	\$1	\$1	\$2	9.17%	\$0	\$0	\$0
214	Jun-86	\$2,768	\$1	\$7	7.1%	\$0	50.5%	\$1	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$3	9.17%	\$0	\$0	\$0
215	Jul-86	\$4,096	\$0	\$11	1.8%	\$0	50.5%	\$2	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$2	\$0	\$4	9.17%	\$0	\$0	\$0
216	Aug-86	\$2,030	\$0	\$13	0.9%	\$0	50.5%	\$1	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$6	9.17%	\$0	\$0	\$0
217	Sep-86	\$16,698	\$26	\$4	88.0%	\$0	50.5%	\$8	\$13	16.04%	\$0	\$0	\$0	\$0	49.5%	\$8	\$13	\$7	9.17%	\$0	\$0	\$0
218	Oct-86	\$0,835	\$0	\$4	9.5%	\$0	50.5%	\$0	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$2	9.17%	\$0	\$0	\$0
219	Nov-86	\$0,835	\$4	\$2	62.9%	\$0	50.5%	\$1	\$2	16.04%	\$0	\$0	\$0	\$0	49.5%	\$1	\$2	\$2	9.17%	\$0	\$0	\$0
220	Dec-86	\$2,066	\$4	\$2	48.3%	\$0	50.5%	\$0	\$0	16.04%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.19%	\$0	\$0	\$0
221	Jan-87	\$0,941	\$2	\$2	2.7%	\$0	50.5%	\$0	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.19%	\$0	\$0	\$0
222	Feb-87	\$0,252	\$0	\$2	11.7%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.19%	\$0	\$0	\$0
223	Mar-87	\$1,163	\$1	\$2	31.8%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$1	9.19%	\$0	\$0	\$0
224	Apr-87	\$1,739	\$0	\$3	11.7%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$1	9.19%	\$0	\$0	\$0
225	May-87	\$4,131	\$1	\$7	9.0%	\$0	50.5%	\$2	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$2	\$0	\$1	9.19%	\$0	\$0	\$0
226	Jun-87	\$6,657	\$1	\$12	10.2%	\$0	50.5%	\$3	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$3	\$1	\$3	9.19%	\$0	\$0	\$0
227	Jul-87	\$7,798	\$7	\$13	33.0%	\$0	50.5%	\$4	\$3	16.00%	\$0	\$0	\$0	\$0	49.5%	\$4	\$3	\$6	9.19%	\$0	\$0	\$0
228	Aug-87	\$3,655	\$1	\$16	5.4%	\$0	50.5%	\$2	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$2	\$0	\$7	9.19%	\$0	\$0	\$0
229	Sep-87	\$7,007	\$16	\$7	71.1%	\$0	50.5%	\$4	\$8	16.00%	\$0	\$0	\$0	\$0	49.5%	\$4	\$8	\$8	9.19%	\$0	\$0	\$0
230	Oct-87	\$1,272	\$1	\$7	7.3%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$3	9.19%	\$0	\$0	\$0
231	Nov-87	\$2,743	\$1	\$9	11.4%	\$0	50.5%	\$3	\$7	16.00%	\$0	\$0	\$0	\$0	49.5%	\$3	\$7	\$4	9.19%	\$0	\$0	\$0
232	Dec-87	\$6,586	\$14	\$1	90.7%	\$0	50.5%	\$3	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$3	\$1	\$4	9.19%	\$0	\$0	\$0
233	Jan-88	\$0,316	\$0	\$2	5.6%	\$0	50.5%	\$0	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.20%	\$0	\$0	\$0
234	Feb-88	\$1,650	\$1	\$2	42.1%	\$0	50.5%	\$1	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$1	\$1	9.20%	\$0	\$0	\$0
235	Mar-88	\$1,437	\$0	\$2	43.5%	\$0	50.5%	\$0	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.20%	\$0	\$0	\$0
236	Apr-88	\$1,910	\$0	\$2	16.2%	\$0	50.5%	\$1	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$1	\$1	9.20%	\$0	\$0	\$0
237	May-88	\$1,910	\$0	\$2	16.2%	\$0	50.5%	\$1	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$1	\$1	9.20%	\$0	\$0	\$0
238	Jun-88	\$0,439	\$0	\$3	4.7%	\$0	50.5%	\$0	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$1	9.20%	\$0	\$0	\$0
239	Jul-88	\$1,693	\$0	\$4	5.7%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$1	9.20%	\$0	\$0	\$0
240	Aug-88	\$1,841	\$0	\$6	7.2%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$2	9.20%	\$0	\$0	\$0
241	Sep-88	\$3,728	\$2	\$7	22.3%	\$0	50.5%	\$2	\$1	16.00%	\$0	\$0	\$0	\$0	49.5%	\$2	\$1	\$3	9.20%	\$0	\$0	\$0
242	Oct-88	\$2,898	\$1	\$10	5.5%	\$0	50.5%	\$1	\$3	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$3	\$4	9.20%	\$0	\$0	\$0
243	Nov-88	\$1,784	\$3	\$8	28.0%	\$0	50.5%	\$1	\$2	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$2	\$4	9.20%	\$0	\$0	\$0
244	Dec-88	\$1,292	\$1	\$9	9.9%	\$0	50.5%	\$1	\$0	16.00%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$4	9.20%	\$0	\$0	\$0
245	Jan-89	\$1,191	\$1	\$9	6.5%	\$0	50.5%	\$1	\$0	16.18%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$4	9.23%	\$0	\$0	\$0
246	Feb-89	\$0,705	\$1	\$9	7.6%	\$0	50.5%	\$0	\$0	16.18%	\$0	\$0	\$0	\$0	49.5%	\$0	\$0	\$4	9.23%	\$0	\$0	\$0
247	Mar-89	\$1,805	\$1	\$10	6.1%	\$0	50.5%	\$1	\$0	16.18%	\$0	\$0	\$0	\$0	49.5%	\$1	\$0	\$4	9.23%	\$0	\$0	\$0
248	Apr-89	\$3,021	\$2	\$11	16.5%	\$0	50.5%	\$2	\$1	16.18%	\$0	\$0	\$0	\$0	49.5%	\$2	\$1	\$5	9.23%	\$0	\$0	\$0
249	May-89	\$6,348	\$8	\$9	47.0%	\$0	50.5%	\$3	\$4	16.18%	\$0	\$0	\$0	\$0	49.5%	\$3	\$4	\$5	9.23%	\$0	\$0	\$0
250	Jun-89	\$4,545	\$3	\$11	18.5%	\$0	50.5%	\$2	\$1	16.18%	\$0	\$0	\$0	\$0	49.5%	\$2	\$1	\$5	9.23%	\$0	\$0	\$0

Calculation of Appropriate AFUDC, 1988-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions Equity AFUDC	Equity Additions %	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt Additions %	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property Additions	Transfers to Property																	
251	Jul-89	\$3,952	\$2	10.9%	\$0	50.5%	\$2	\$6	16.18%	\$0	\$0	\$0	\$0	49.5%	\$2	\$1	\$6	\$7	\$0	\$0
252	Aug-89	\$6,670	\$5	26.8%	\$0	50.5%	\$3	\$3	16.18%	\$0	\$0	\$0	\$0	49.5%	\$3	\$3	\$7	\$9.23%	\$0	\$0
253	Sep-89	\$7,190	\$1	5.3%	\$0	50.5%	\$4	\$1	16.18%	\$0	\$0	\$0	\$0	49.5%	\$4	\$1	\$7	\$9.23%	\$0	\$0
254	Oct-89	\$8,172	\$1	16.4%	\$0	50.5%	\$4	\$2	16.18%	\$0	\$0	\$0	\$0	49.5%	\$4	\$2	\$10	\$9.23%	\$0	\$0
255	Nov-89	\$8,093	\$1	3.0%	\$0	50.5%	\$2	\$1	16.18%	\$0	\$0	\$0	\$0	49.5%	\$2	\$1	\$12	\$9.23%	\$0	\$0
256	Dec-89	\$8,172	\$1	13.8%	\$0	50.5%	\$2	\$7	16.18%	\$0	\$0	\$0	\$0	49.5%	\$2	\$7	\$17	\$9.23%	\$0	\$0
257	Jan-90	\$4,851	\$3	13.8%	\$0	50.5%	\$2	\$2	16.35%	\$0	\$0	\$1	\$0	49.5%	\$2	\$2	\$10	9.35%	\$0	\$0
258	Feb-90	\$5,225	\$2	5.9%	\$0	50.5%	\$3	\$1	16.35%	\$0	\$0	\$1	\$0	49.5%	\$3	\$1	\$10	9.35%	\$0	\$0
259	Mar-90	\$5,339	\$1	3.8%	\$0	50.5%	\$3	\$1	16.35%	\$0	\$0	\$1	\$0	49.5%	\$3	\$1	\$12	9.35%	\$0	\$0
260	Apr-90	\$6,405	\$1	3.2%	\$0	50.5%	\$3	\$1	16.35%	\$0	\$0	\$1	\$0	49.5%	\$3	\$1	\$14	9.35%	\$0	\$1
261	May-90	\$9,574	\$4	8.6%	\$0	50.5%	\$5	\$2	16.35%	\$0	\$0	\$1	\$0	49.5%	\$5	\$2	\$17	9.35%	\$0	\$1
262	Jun-90	\$14,738	\$5	11.1%	\$0	50.5%	\$5	\$2	16.35%	\$0	\$0	\$1	\$0	49.5%	\$5	\$2	\$20	9.35%	\$0	\$1
263	Jul-90	\$0,246	\$7	\$53	\$0	50.5%	\$5	\$3	16.35%	\$0	\$0	\$2	\$0	49.5%	\$5	\$3	\$25	9.35%	\$0	\$1
264	Aug-90	\$13,457	\$4	5.8%	\$0	50.5%	\$7	\$2	16.35%	\$0	\$0	\$2	\$0	49.5%	\$7	\$2	\$26	9.35%	\$0	\$1
265	Sep-90	\$26,482	\$18	19.8%	\$0	50.5%	\$13	\$0	16.35%	\$0	\$0	\$2	\$0	49.5%	\$13	\$0	\$31	9.35%	\$0	\$1
266	Oct-90	\$24,038	\$3	3.4%	\$0	50.5%	\$12	\$2	16.35%	\$0	\$0	\$2	\$0	49.5%	\$12	\$2	\$35	9.35%	\$0	\$1
267	Nov-90	\$20,327	\$20	17.8%	\$0	50.5%	\$10	\$10	16.35%	\$1	\$0	\$3	\$0	49.5%	\$10	\$10	\$46	9.35%	\$0	\$1
268	Dec-90	\$26,576	\$25	21.2%	\$0	50.5%	\$13	\$13	16.35%	\$1	\$1	\$3	\$0	49.5%	\$13	\$13	\$46	9.35%	\$0	\$1
269	Jan-91	\$6,718	\$9	8.6%	\$0	50.5%	\$3	\$4	16.06%	\$1	\$1	\$3	\$0	49.5%	\$3	\$4	\$46	9.37%	\$0	\$2
270	Feb-91	\$14,897	\$3	2.9%	\$0	50.5%	\$8	\$2	16.06%	\$1	\$1	\$4	\$0	49.5%	\$7	\$2	\$45	9.37%	\$0	\$2
271	Mar-91	\$23,354	\$42	33.3%	\$0	50.5%	\$12	\$21	16.06%	\$1	\$1	\$3	\$0	49.5%	\$12	\$21	\$51	9.37%	\$0	\$2
272	Apr-91	\$14,557	\$2	1.7%	\$0	50.5%	\$7	\$1	16.06%	\$1	\$1	\$4	\$0	49.5%	\$7	\$1	\$42	9.37%	\$0	\$2
273	May-91	\$13,831	\$3	2.8%	\$0	50.5%	\$7	\$2	16.06%	\$1	\$0	\$4	\$0	49.5%	\$7	\$2	\$48	9.37%	\$0	\$2
274	Jun-91	\$13,658	\$2	1.6%	\$0	50.5%	\$7	\$1	16.06%	\$1	\$0	\$5	\$0	49.5%	\$7	\$1	\$54	9.37%	\$0	\$3
275	Jul-91	\$15,370	\$11	8.3%	\$0	50.5%	\$8	\$6	16.06%	\$1	\$0	\$5	\$0	49.5%	\$8	\$6	\$59	9.37%	\$0	\$3
276	Aug-91	\$31,860	\$10	8.3%	\$0	50.5%	\$1	\$5	16.06%	\$1	\$0	\$6	\$0	49.5%	\$1	\$5	\$61	9.37%	\$0	\$3
277	Sep-91	\$67,475	\$3	6.0%	\$0	50.5%	\$1	\$3	16.06%	\$1	\$0	\$6	\$0	49.5%	\$1	\$3	\$66	9.37%	\$0	\$3
278	Oct-91	\$8,532	\$5	10.7%	\$0	50.5%	\$4	\$1	16.06%	\$0	\$1	\$6	\$0	49.5%	\$4	\$3	\$66	9.37%	\$0	\$3
279	Nov-91	\$12,701	\$2	4.3%	\$0	50.5%	\$6	\$1	16.06%	\$0	\$0	\$6	\$0	49.5%	\$6	\$1	\$72	9.37%	\$0	\$3
280	Dec-91	\$0,728	\$25	43.7%	\$0	50.5%	\$0	\$12	16.06%	\$0	\$0	\$4	\$0	49.5%	\$0	\$12	\$27	9.37%	\$0	\$1
281	Jan-92	\$4,970	\$8	23.1%	\$0	50.5%	\$3	\$4	15.61%	\$0	\$1	\$3	\$0	49.5%	\$2	\$4	\$16	9.37%	\$0	\$2
282	Feb-92	\$5,584	\$5	14.0%	\$0	50.5%	\$3	\$2	15.61%	\$0	\$1	\$3	\$0	49.5%	\$2	\$3	\$14	9.37%	\$0	\$2
283	Mar-92	\$3,136	\$7	21.0%	\$0	50.5%	\$3	\$2	15.61%	\$0	\$1	\$2	\$0	49.5%	\$2	\$3	\$14	9.37%	\$0	\$2
284	Apr-92	\$7,719	\$5	6.2%	\$0	50.5%	\$4	\$2	15.61%	\$0	\$0	\$2	\$0	49.5%	\$4	\$2	\$14	9.37%	\$0	\$2
285	May-92	\$4,323	\$3	3.6%	\$0	50.5%	\$2	\$1	15.61%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$11	9.37%	\$0	\$1
286	Jun-92	\$7,603	\$1	1.7%	\$0	50.5%	\$3	\$1	15.61%	\$0	\$0	\$2	\$0	49.5%	\$3	\$1	\$12	9.37%	\$0	\$1
287	Jul-92	\$5,584	\$2	3.6%	\$0	50.5%	\$2	\$1	15.61%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$11	9.37%	\$0	\$1
288	Aug-92	\$3,400	\$3	8.6%	\$0	50.5%	\$2	\$2	15.61%	\$0	\$0	\$2	\$0	49.5%	\$2	\$2	\$18	9.37%	\$0	\$1
289	Sep-92	\$12,752	\$5	9.6%	\$0	50.5%	\$6	\$2	15.61%	\$0	\$0	\$2	\$0	49.5%	\$6	\$2	\$18	9.37%	\$0	\$1
290	Oct-92	\$6,620	\$7	14.6%	\$0	50.5%	\$3	\$4	15.61%	\$0	\$0	\$2	\$0	49.5%	\$3	\$4	\$22	9.37%	\$0	\$1
291	Nov-92	\$6,430	\$4	8.5%	\$0	50.5%	\$2	\$2	15.61%	\$0	\$0	\$2	\$0	49.5%	\$2	\$2	\$21	9.37%	\$0	\$1
292	Dec-92	\$2,983	\$15	30.6%	\$0	50.5%	\$2	\$7	15.61%	\$0	\$1	\$2	\$0	49.5%	\$1	\$7	\$22	9.37%	\$0	\$1
293	Jan-93	\$1,672	\$6	18.0%	\$0	50.5%	\$1	\$3	14.02%	\$0	\$0	\$2	\$0	49.5%	\$1	\$3	\$17	9.29%	\$0	\$1
294	Feb-93	\$2,740	\$2	6.8%	\$0	50.5%	\$1	\$1	14.02%	\$0	\$0	\$2	\$0	49.5%	\$1	\$1	\$14	9.29%	\$0	\$1
295	Mar-93	\$5,125	\$4	10.5%	\$0	50.5%	\$3	\$2	14.02%	\$0	\$0	\$2	\$0	49.5%	\$3	\$2	\$15	9.29%	\$0	\$1
296	Apr-93	\$5,219	\$5	12.5%	\$0	50.5%	\$3	\$2	14.02%	\$0	\$0	\$2	\$0	49.5%	\$3	\$2	\$15	9.29%	\$0	\$1
297	May-93	\$2,181	\$2	6.8%	\$0	50.5%	\$1	\$1	14.02%	\$0	\$0	\$2	\$0	49.5%	\$1	\$1	\$16	9.29%	\$0	\$1
298	Jun-93	\$4,215	\$6	17.4%	\$0	50.5%	\$2	\$3	14.02%	\$0	\$0	\$2	\$0	49.5%	\$2	\$3	\$16	9.29%	\$0	\$1
299	Jul-93	\$0,821	\$8	25.8%	\$0	50.5%	\$0	\$4	14.02%	\$0	\$0	\$1	\$0	49.5%	\$0	\$4	\$15	9.29%	\$0	\$1
300	Aug-93	\$2,036	\$1	2.9%	\$0	50.5%	\$1	\$0	14.02%	\$0	\$0	\$2	\$0	49.5%	\$1	\$0	\$11	9.29%	\$0	\$1

Calculation of Appropriate AFUDC, 1988-1996
(millions \$)

Line No.	Date	Construction Work in Progress		In-service Ratio	Compounding Additions Equity AFUDC	Equity Add's %	Equity Add's	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions Debt AFUDC	Debt %	Debt Add's	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC	Transfers Debt AFUDC	Debt AFUDC Balance
		Property	Transfers to Property																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
301	Sep-93	\$1,253	\$3	13.5%	\$0	50.5%	\$1	\$2	\$12	14.02%	\$0	\$0	\$1	\$0	49.5%	\$1	\$2	\$12	9.29%	\$0	\$0	\$1
302	Oct-93	\$2,629	\$2	8.6%	\$0	50.5%	\$2	\$1	\$1	14.02%	\$0	\$0	\$0	\$0	49.5%	\$1	\$1	\$1	9.29%	\$0	\$0	\$1
303	Nov-93	\$3,788	\$2	8.6%	\$0	50.5%	\$2	\$1	\$1	14.02%	\$0	\$0	\$1	\$0	49.5%	\$2	\$1	\$1	9.29%	\$0	\$0	\$1
304	Dec-93	\$6,619	\$6	21.3%	\$0	50.5%	\$6	\$3	\$12	14.02%	\$0	\$0	\$3	\$0	49.5%	\$3	\$3	\$12	9.29%	\$0	\$0	\$3
305	Jan-94	\$1,594	\$2	6.3%	\$0	50.5%	\$2	\$1	\$1	14.02%	\$0	\$0	\$1	\$0	49.5%	\$1	\$1	\$1	9.29%	\$0	\$0	\$1
306	Feb-94	\$1,594	\$2	6.3%	\$0	50.5%	\$2	\$1	\$1	14.02%	\$0	\$0	\$1	\$0	49.5%	\$1	\$1	\$1	9.29%	\$0	\$0	\$1
307	Mar-94	\$1,603	\$1	2.7%	\$0	50.5%	\$1	\$0	\$1	14.67%	\$0	\$0	\$1	\$0	49.5%	\$1	\$0	\$1	9.30%	\$0	\$0	\$1
308	Apr-94	\$3,777	\$2	6.9%	\$0	50.5%	\$2	\$0	\$1	14.67%	\$0	\$0	\$2	\$0	49.5%	\$2	\$0	\$1	9.30%	\$0	\$0	\$1
309	May-94	\$5,348	\$3	6.9%	\$0	50.5%	\$3	\$1	\$16	14.67%	\$0	\$0	\$2	\$0	49.5%	\$3	\$1	\$15	9.30%	\$0	\$0	\$1
310	Jun-94	\$4,342	\$3	8.2%	\$0	50.5%	\$2	\$1	\$17	14.67%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$17	9.30%	\$0	\$0	\$1
311	Jul-94	\$4,658	\$1	3.4%	\$0	50.5%	\$2	\$1	\$18	14.67%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$17	9.30%	\$0	\$0	\$1
312	Aug-94	\$4,686	\$1	2.8%	\$0	50.5%	\$2	\$1	\$19	14.67%	\$0	\$0	\$2	\$0	49.5%	\$2	\$1	\$19	9.30%	\$0	\$0	\$1
313	Sep-94	\$5,679	\$1	2.8%	\$0	50.5%	\$3	\$1	\$21	14.67%	\$0	\$0	\$3	\$0	49.5%	\$3	\$1	\$21	9.30%	\$0	\$0	\$1
314	Oct-94	\$9,200	\$1	5.5%	\$0	50.5%	\$5	\$1	\$24	14.67%	\$0	\$0	\$3	\$0	49.5%	\$5	\$1	\$23	9.30%	\$0	\$0	\$2
315	Nov-94	\$1,400	\$0	0.5%	\$0	50.5%	\$1	\$0	\$28	14.67%	\$0	\$0	\$3	\$0	49.5%	\$1	\$0	\$27	9.30%	\$0	\$0	\$2
316	Dec-94	\$5,489	\$31	49.9%	\$0	50.5%	\$3	\$15	\$15	14.67%	\$0	\$1	\$2	\$0	49.5%	\$3	\$15	\$28	9.35%	\$0	\$1	\$1
317	Jan-95	\$3,277	\$7	20.6%	\$0	50.5%	\$2	\$4	\$16	14.74%	\$0	\$0	\$2	\$0	49.5%	\$2	\$3	\$15	9.35%	\$0	\$0	\$1
318	Feb-95	\$5,161	\$1	2.8%	\$0	50.5%	\$3	\$0	\$14	14.74%	\$0	\$0	\$2	\$0	49.5%	\$3	\$0	\$13	9.35%	\$0	\$0	\$1
319	Mar-95	\$3,819	\$0	0.6%	\$0	50.5%	\$2	\$0	\$16	14.74%	\$0	\$0	\$2	\$0	49.5%	\$2	\$0	\$15	9.35%	\$0	\$0	\$1
320	Apr-95	\$5,248	\$0	0.6%	\$0	50.5%	\$3	\$0	\$18	14.74%	\$0	\$0	\$2	\$0	49.5%	\$3	\$0	\$17	9.35%	\$0	\$0	\$1
321	May-95	\$2,680	\$0	0.1%	\$0	50.5%	\$1	\$0	\$20	14.74%	\$0	\$0	\$2	\$0	49.5%	\$1	\$0	\$20	9.35%	\$0	\$0	\$1
322	Jun-95	\$3,501	\$5	10.3%	\$0	50.5%	\$2	\$2	\$22	14.74%	\$0	\$0	\$2	\$0	49.5%	\$2	\$2	\$21	9.35%	\$0	\$0	\$2
323	Jul-95	\$4,151	\$0	0.8%	\$0	50.5%	\$2	\$0	\$21	14.74%	\$0	\$0	\$3	\$0	49.5%	\$2	\$0	\$20	9.35%	\$0	\$0	\$2
324	Aug-95	\$5,192	\$1	1.3%	\$0	50.5%	\$3	\$0	\$23	14.74%	\$0	\$0	\$3	\$0	49.5%	\$3	\$0	\$22	9.35%	\$0	\$0	\$2
325	Sep-95	\$4,286	\$0	0.2%	\$0	50.5%	\$2	\$0	\$25	14.74%	\$0	\$0	\$3	\$0	49.5%	\$2	\$0	\$25	9.35%	\$0	\$0	\$2
326	Oct-95	\$5,294	\$3	4.5%	\$0	50.5%	\$3	\$1	\$27	14.74%	\$0	\$0	\$3	\$0	49.5%	\$3	\$1	\$27	9.35%	\$0	\$0	\$2
327	Nov-95	\$3,944	\$1	2.8%	\$0	50.5%	\$2	\$1	\$29	14.74%	\$0	\$0	\$4	\$0	49.5%	\$2	\$1	\$28	9.35%	\$0	\$0	\$2
328	Dec-95	\$12,330	\$21	28.9%	\$0	50.5%	\$6	\$10	\$30	14.74%	\$0	\$1	\$3	\$0	49.5%	\$6	\$10	\$29	9.35%	\$0	\$1	\$2
329	Jan-96	\$3,440	\$10	17.8%	\$0	50.5%	\$3	\$5	\$26	14.74%	\$0	\$1	\$3	\$0	49.5%	\$3	\$5	\$25	9.19%	\$0	\$0	\$2
330	Feb-96	\$3,309	\$0	0.7%	\$0	50.5%	\$2	\$0	\$23	14.28%	\$0	\$0	\$3	\$0	49.5%	\$2	\$0	\$23	9.19%	\$0	\$0	\$2
331	Mar-96	\$4,470	\$0	0.4%	\$0	50.5%	\$2	\$0	\$25	14.28%	\$0	\$0	\$3	\$0	49.5%	\$2	\$0	\$24	9.19%	\$0	\$0	\$2
332	Apr-96	\$3,284	\$1	1.3%	\$0	50.5%	\$2	\$0	\$27	14.28%	\$0	\$0	\$4	\$0	49.5%	\$2	\$0	\$26	9.19%	\$0	\$0	\$2
333	May-96	\$3,996	\$2	4.1%	\$0	50.5%	\$2	\$1	\$28	14.28%	\$0	\$0	\$4	\$0	49.5%	\$2	\$1	\$28	9.19%	\$0	\$0	\$2
334	Jun-96	\$7,592	\$3	4.6%	\$0	50.5%	\$4	\$2	\$29	14.28%	\$0	\$0	\$4	\$0	49.5%	\$4	\$1	\$28	9.19%	\$0	\$0	\$2
335	Jul-96	\$2,752	\$0	0.1%	\$0	50.5%	\$3	\$2	\$32	14.28%	\$0	\$0	\$4	\$0	49.5%	\$3	\$2	\$31	9.19%	\$0	\$0	\$2
336	Aug-96	\$5,579	\$7	0.5%	\$0	50.5%	\$3	\$0	\$32	14.28%	\$0	\$0	\$5	\$0	49.5%	\$3	\$0	\$31	9.19%	\$0	\$0	\$2
337	Sep-96	\$7,141	\$1	1.7%	\$0	50.5%	\$4	\$0	\$33	14.28%	\$0	\$0	\$5	\$0	49.5%	\$4	\$0	\$32	9.19%	\$0	\$0	\$2
338	Oct-96	\$4,709	\$0	0.6%	\$0	50.5%	\$2	\$0	\$36	14.28%	\$0	\$0	\$5	\$0	49.5%	\$2	\$0	\$35	9.19%	\$0	\$0	\$2
339	Nov-96	\$4,724	\$0	0.6%	\$0	50.5%	\$2	\$0	\$38	14.28%	\$0	\$0	\$6	\$0	49.5%	\$2	\$0	\$37	9.19%	\$0	\$0	\$2
340	Dec-96	\$5,164	\$11	13.0%	\$0	50.5%	\$3	\$6	\$40	14.28%	\$0	\$1	\$6	\$0	49.5%	\$3	\$5	\$40	9.19%	\$0	\$0	\$2

SOURCE:

- Column 1 Time in months
Column 2 Exhibit 14D-RGV-C, TAPS-RGV WFA, Schedule 3
Column 3 Exhibit 14D-RGV-C, TAPS-RGV WFA, Schedule 3
Column 4 Exhibit 14D-RGV-C, TAPS-RGV WFA, Schedule 3
Column 5 Exhibit 14D-RGV-C, TAPS-RGV WFA, Schedule 3
Column 6 Sum (prior six months Col 12) * sumproduct(prior six months Col 12 * prior six months Col 5) [A]
Column 7 Exhibit 11, col d
Column 8 Col 2 * Col 7

Calculation of Appropriate AFUDC, 1988-1998
(millions \$)

Line No.	Date	Construction Work in Progress			In-serviced Ratio	Compounding Additions		Equity %	Equity Addn's	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC	Equity AFUDC Balance	Compounding Additions		Debt Addn's	Debt Transfers	Debt Base	COD	Incremental Debt AFUDC		Transfer Debt AFUDC	Debt AFUDC Balance
		Property Additions	Transfers to Property	Property Balance		Equity AFUDC	Debt AFUDC																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Column 9	(cum Col 8 - cum prior Col 9 + cum Col 6) * Col 5																								
Column 10	prior (Col 8 - Col 9 + Col 10) + Col 6																								
Column 11	Exhibit 20, col b																								
Column 12	(Col 10 + Col 11)/12																								
Column 13	prior Col 14 + Col 4 + [B]																								
Column 14	prior Col 14 + Col 12																								
Column 15	Sum prior six months Col 21 - sumproduct(prior six months Col 21 * prior six months Col 5) [A]																								
Column 16	1.0 - Col 7																								
Column 17	Col 2 + Col 16																								
Column 18	(cum Col 17 - cum prior Col 18 + cum Col 15) * Col 5																								
Column 19	prior (Col 17 - Col 18 + Col 19) + Col 15																								
Column 20	Exhibit 15, Schedule 3, col i																								
Column 21	(Col 19 + Col 20) / 12																								
Column 22	prior Col 23 * Col 5 + [C]																								
Column 23	prior Col 23 + Col 21 - Col 22																								

[A] for the months January and July prior to June of 1977, otherwise equal to 0

[B] If Col 5 = 100%, +Col 12, otherwise 0

[C] If Col 5 = 100%, +Col 19, otherwise 0

Appropriate Depreciation and Accumulated Depreciation, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982
1	TSM-6/Baden Depreciation 77-83; TSM Depreciation 84-96	(30-BWF-E, 235-JFB-T); (31-BWF-E)	108.493	453.437	549.208	626.832	602.059	611.310
2	Amortization of Excluded Costs	31-BWF-E, Ln. 119		47.407	55.891	66.134	65.989	70.407
3	Appropriate Annual Depreciation	Line 1 + Line 2	108.493	500.844	605.099	692.966	668.048	681.717
4	Adjustments to Accumulated Depreciation	FERC Form 6, from 143-RGV-C	0.000	0.000	0.557	0.071	1.010	0.000
5	Adjusted Retirements from Accumulated Depreciation	Exhibit 23, Ln. 8	0.000	(6.985)	(10.932)	(51.829)	(2.496)	(13.606)
6	Accumulated Depreciation	Lns (3 + 4 + 5) + Prior Ln. 6	108.493	602.352	1197.077	1838.285	2504.847	3172.958

Appropriate Depreciation and Accumulated Depreciation, 1977-1996
(millions \$)

Line No.	Description	Source	1983	1984	1985	1986	1987	1988
1	TSM-6/Baden Depreciation 77-83; TSM Depreciation 84-96	(30-BWF-E, 235-JFB-T); (31-BWF-E)	589.012	569.053	542.938	514.506	503.605	458.916
2	Amortization of Excluded Costs	31-BWF-E, Ln. 119	71.471	72.701				
3	Appropriate Annual Depreciation	Line 1 + Line 2	660.483	641.754	542.938	514.506	503.605	458.916
4	Adjustments to Accumulated Depreciation	FERC Form 6, from 143-RGV-C	0.000	0.075	0.000	0.000	0.000	0.000
5	Adjusted Retirements from Accumulated Depreciation	Exhibit 23, Ln. 8	(22.444)	(11.508)	(13.782)	(2.969)	(16.646)	(12.973)
6	Accumulated Depreciation	Lns (3 + 4 + 5) + Prior Ln. 6	3810.997	4441.318	4970.473	5482.011	5968.970	6414.913

Appropriate Depreciation and Accumulated Depreciation, 1977-1996
(millions \$)

Line No.	Description	Source	1989	1990	1991	1992	1993	1994
1	TSM-6/Baden Depreciation 77-83; TSM Depreciation 84-96	(30-BWF-E, 235-JFB-T); (31-BWF-E)	395.419	335.514	295.711	285.871	237.084	195.984
2	Amortization of Excluded Costs	31-BWF-E, Ln. 119						
3	Appropriate Annual Depreciation	Line 1 + Line 2	395.419	335.514	295.711	285.871	237.084	195.984
4	Adjustments to Accumulated Depreciation	FERC Form 6, from 143-RGV-C	0.000	(0.004)	0.000	0.000	0.000	0.000
5	Adjusted Retirements from Accumulated Depreciation	Exhibit 23, Ln. 8	(4.723)	(4.342)	(57.358)	(15.635)	(10.901)	(10.166)
6	Accumulated Depreciation	Lns (3 + 4 + 5) + Prior Ln. 6	6805.609	7136.777	7375.129	7645.366	7871.548	8057.367

Appropriate Depreciation and Accumulated Depreciation, 1977-1996
(millions \$)

Line No.	Description	Source	1995	1996
1	TSM-6/Baden Depreciation 77-83; TSM Depreciation 84-96	(30-BWF-E, 235-JFB-T); (31-BWF-E)	165.315	126.791
2	Amortization of Excluded Costs	31-BWF-E, Ln. 119		
3	Appropriate Annual Depreciation	Line 1 + Line 2	165.315	126.791
4	Adjustments to Accumulated Depreciation	FERC Form 6, from 143-RGV-C	(0.298)	19.148
5	Adjusted Retirements from Accumulated Depreciation	Exhibit 23, Ln. 8	(2.642)	(114.107)
6	Accumulated Depreciation	Lns (3 + 4 + 5) + Prior Ln. 6	8219.741	8251.573

Explanatory Note to Exhibit 23

The more rapid depreciation schedule that we adopt needs to be imposed on property that has a shorter life than 34.5 years (the stipulated life of the TAPS). We do this with different degrees of precision for retirements that occurred in the periods 1977-1985 and 1986-1996. For the first period, the Carriers' annual reports do not contain information regarding the vintages of the property retired. Accordingly, we treat retirements in any given year in the aggregate. For the second period, where the Supplemental pages do indeed provide vintage information on retirements, the accelerated depreciation profile that we adopt here is separately imposed on each vintage of retirement for each year.

Several steps are needed to impose the same depreciation profile, implicit in our finding regarding TSM depreciation, on assets that are shorter-lived than 34.5 years. First, we "normalize" the year that the composite asset is retired to reflect a 34.5 year service life. In effect, we determine the year that the asset would have been retired *if* the amount of FERC Form 6 retirements from accumulated depreciation were realized at that date, but assuming that the asset had gone into service in 1977, and that it had a 34.5 year life. Accordingly, we take the ratio of FERC data on retirements to accumulated depreciation to FERC total retirements, multiply the result by 34 years, and add this figure to 1977. If the result is greater than 2011 (the stipulated life of TAPS), we assume the property was expected to be fully depreciated by 2011. This is accomplished by lines 1-4 of Schedule 1 (for retirements that occur during 1977-1985) and columns a-d of the Yearly Schedules (for retirements that occur during 1986-1996).

Second, we assess how much the asset retired in the normalized year would have been depreciated given our finding regarding TSM depreciation. We first determine the amortization factors based on TSM depreciation charges for 1977-2000. For 2001-2011, because we do not have TSM depreciation charges upon which to rely, we adopt TSM's depreciation factors, as they are reasonably close to the ones that we derive. Using these yearly depreciation factors, we then determine the amount of depreciation that would have cumulatively been realized by a given date. This is accomplished on line 5-6 of Schedule 1 (for retirements during 1977-1985) and column (e) of the Yearly Schedules (for retirements that occur during 1986-1996). The depreciation factor of line 5 is derived in Schedule 2.

Finally, lines 7-8 (or column (f), respectively) determine the "adjusted" retirements from accumulated depreciation. They take the amount of depreciation that would have accumulated (line 7, column (e)) in the normalized year of retirement (line 4, column (d)) and apply it to the amount of FERC-recorded retirements from accumulated depreciation (line 2, column (a)).

We note that for 1996 Retirements from Carrier Property include \$730,000,¹ in retirements from Construction Work in Progress (CWIP), out of total retirement amounts of \$115,568,000. Because there can be no depreciation from Carrier property that has not yet been placed in service, we adjust accumulated depreciation amounts to reflect retirements only of depreciable property.

We note further that adjusting retirements for 1996 is complicated because Mobil shows a charge to Carrier property of \$89,910,000 due to a "Net 1% Sale",² which it includes in its retirements figure. Mobil records \$51,761,000 in charges to accumulated depreciation that corresponds to this sale. The company does not, however, indicate the vintages of property sold. Therefore, rather than decomposing charges to accumulated depreciation due to retirements into its components, we apply the adjustment as if the sold property were a single composite item.

¹ Mobil Alaska Pipeline Company's Annual Report, Supplemental page 2.

² Annual Report, Supplemental page 9.

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983
1	Property Account - Grand Total - Credits for Retirements of Depreciable Property ^{1/}	Exhibit 8, Ln. 5	(\$29.49)	(\$7.02)	(\$11.88)	(\$164.56)	(\$2.24)	(\$11.51)	(\$24.36)
2	Depreciation Account - Grand Total - Retirements	FERC Form 6 - From 143-RGV-C	0.00	(5.36)	(5.22)	(16.94)	(2.50)	(13.61)	(10.91)
3	Ratio of Depreciation to Property Retirements (Retirements Factor)	Ln. 2/Ln. 1	0.00%	76.41%	43.95%	10.29%	111.68%	118.25%	44.74%
4	Year of Asset Retirement, normalized to 34.5-year horizon, nearest year	Lesser of [(Ln. 3 * 34) + 1977], 2011	1977	2003	1992	1981	2011	2011	1992
5	Cumulative Undepreciated Property Factor to date	Schedule 2, Ln. 10	98.6196%	92.3869%	84.9366%	76.5400%	68.5036%	60.3545%	52.5512%
6	Cumulative Depreciation Factor to date	1 - Ln. 5	1.3804%	7.6131%	15.0634%	23.4600%	31.4964%	39.6455%	47.4488%
7	Depreciation Account - Adjusted Retirements Factor	Ln. 6 corresponding to Ln. 4, Read from Year	0.00%	99.54%	92.05%	31.50%	100.00%	100.00%	92.05%
8	Depreciation Account - Adjusted Retirements	For 1977-1985: If Ln. 1 > Ln. 2, Ln. 2, else Ln. 7 * Ln. 1; else year's Schedule	0.00	(6.98)	(10.93)	(51.83)	(2.50)	(13.61)	(22.44)

^{1/} Data in 1996 adjusted from Exhibit 8 to reflect retirements from CWIP

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1984	1985	1986	1987	1988	1989	1990
1	Property Account - Grand Total - Credits for Retirements of Depreciable Property ^{1/}	Exhibit 8, Ln. 5	(\$12.50)	(\$13.79)	(\$2.97)	(\$16.48)	(\$12.98)	(\$5.35)	(\$4.40)
2	Depreciation Account - Grand Total - Retirements	FERC Form 6 - From 143-RGV-C	(5.37)	(13.18)	(2.88)	(16.54)	(12.73)	(3.94)	(3.40)
3	Ratio of Depreciation to Property Retirements (Retirements Factor)	Ln. 2/Ln. 1	42.91%	95.58%					
4	Year of Asset Retirement, normalized to 34.5-year horizon, nearest year	Lesser of [(Ln. 3 * 34) + 1977], 2011	1992	2010					
5	Cumulative Undepreciated Property Factor to date	Schedule 2, Ln. 10	45.0251%	38.6831%	32.7040%	26.8846%	21.5748%	17.0754%	13.4222%
6	Cumulative Depreciation Factor to date	1 - Ln. 5	54.9749%	61.3169%	67.2960%	73.1154%	78.4252%	82.9246%	86.5578%
7	Depreciation Account - Adjusted Retirements Factor	Ln. 6 corresponding to Ln. 4, Read from Year	92.05%	99.97%					
8	Depreciation Account - Adjusted Retirements	For 1977-1985: If Ln. 1 > Ln. 2, Ln. 2, else Ln. 7 * Ln. 1; else year's Schedule	(11.51)	(13.78)	(2.97)	(16.65)	(12.97)	(4.72)	(3.52)

^{1/} Data in 1996 adjusted from Exhibit 8 to reflect retirements from CWIP

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1991	1992	1993	1994	1995	1996
1	Property Account - Grand Total - Credits for Retirements of Depreciable Property ^{1/}	Exhibit 8, Ln. 5	(\$52.93)	(\$15.65)	(\$10.98)	(\$10.32)	(\$3.37)	(\$114.83)
2	Depreciation Account - Grand Total - Retirements	FERC Form 6 - From 143-RGV-C	(57.08)	(13.87)	(8.85)	(7.58)	(2.35)	(89.33)
3	Ratio of Depreciation to Property Retirements (Retirements Factor)	Ln. 2/Ln. 1						
4	Year of Asset Retirement, normalized to 34.5-year horizon, nearest year	Lesser of [(Ln. 3 * 34) + 1977], 2011						
5	Cumulative Undepreciated Property Factor to date	Schedule 2, Ln. 10	10.5850%	7.9521%	5.8531%	4.2007%	2.8921%	1.8967%
6	Cumulative Depreciation Factor to date	1 - Ln. 5	89.4150%	92.0479%	94.1469%	95.7993%	97.1079%	98.1033%
7	Depreciation Account - Adjusted Retirements Factor	Ln. 6 corresponding to Ln. 4, Read from Year						
8	Depreciation Account - Adjusted Retirements	For 1977-1985: If Ln. 1 > Ln. 2, Ln. 2, else Ln. 7 * Ln. 1; else year's Schedule	(57.92)	(15.52)	(10.77)	(10.10)	(2.64)	(114.11)

^{1/} Data in 1996 adjusted from Exhibit 8 to reflect retirements from CWIP

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984
1	Gross Depreciable Property EOY	Exhibit 8, Lns (9-8-7)	\$9,075.01	\$9,248.94	\$9,328.41	\$9,439.73	\$9,485.10	\$9,521.27	\$9,580.77	\$9,613.04
2	Capitalized Interest - EOY	Exhibit 8, Ln. 10	\$1,215.57	\$1,215.57	\$1,215.57	\$1,215.57	\$1,215.11	\$1,215.11	\$1,215.11	\$1,214.31
3	Depreciable Property Net Capitalized Interest	Lns. 1 - 2	\$7,859.44	\$8,033.37	\$8,112.84	\$8,224.16	\$8,269.99	\$8,306.16	\$8,365.66	\$8,398.73
4	Depreciation Expense (Net Capitalized Interest)	Exhibit 22, Ln. 1	\$108	\$501	\$605	\$693	\$668	\$682	\$660	\$642
5	Gross Accumulated Depreciation	Cumulative sum, ln. 4	\$108	\$609	\$1,214	\$1,907	\$2,575	\$3,257	\$3,918	\$4,559
6	Composite Depreciation Rate (Net basis, unadjusted)	To 2000, Ln. 4/(Lns. 3+4-5); after, 31- BWF-E, Ln. 14	1.38%	6.32%	8.06%	9.89%	10.50%	11.90%	12.93%	14.32%
7	TSM Basis Cumulative "Undepreciated Property Factor" to date	Prior Ln. 7 - Lns. (6 * 7)	98.62%	92.39%	84.94%	76.54%	68.50%	60.35%	52.55%	45.03%

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1985	1986	1987	1988	1989	1990	1991	1992
1	Gross Depreciable Property EOY	Exhibit 8, Lns (9-8-7)	\$9,628.07	\$9,645.07	\$9,660.89	\$9,657.85	\$9,689.22	\$9,765.45	\$9,915.04	\$9,968.82
2	Capitalized Interest - EOY	Exhibit 8, Ln. 10	\$1,214.06	\$1,214.01	\$1,213.86	\$1,213.81	\$1,213.80	\$1,213.80	\$1,213.55	\$1,213.52
3	Depreciable Property Net Capitalized Interest	Lns. 1 - 2	\$8,414.01	\$8,431.06	\$8,447.03	\$8,444.04	\$8,475.41	\$8,551.66	\$8,701.49	\$8,755.30
4	Depreciation Expense (Net Capitalized Interest)	Exhibit 22, Ln. 1	\$543	\$515	\$504	\$459	\$395	\$336	\$296	\$286
5	Gross Accumulated Depreciation	Cumulative sum, ln. 4	\$5,102	\$5,617	\$6,120	\$6,579	\$6,975	\$7,310	\$7,606	\$7,892
6	Composite Depreciation Rate (Net basis, unadjusted)	To 2000, Ln. 4/(Lns. 3+4-5); after, 31- BWF-E, Ln. 14	14.09%	15.46%	17.79%	19.75%	20.85%	21.28%	21.26%	24.87%
7	TSM Basis Cumulative "Undepreciated Property Factor" to date	Prior Ln. 7 - Lns. (6 * 7)	38.68%	32.70%	26.88%	21.57%	17.08%	13.44%	10.58%	7.95%

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	1993	1994	1995	1996	1997	1998	1999
1	Gross Depreciable Property EOY	Exhibit 8, Lns (9-8-7)	\$10,003.62	\$10,036.68	\$10,069.13	\$10,063.31	\$10,165.66	\$10,180.24	\$10,223.96
2	Capitalized Interest - EOY	Exhibit 8, Ln. 10	\$1,213.52	\$1,213.51	\$1,213.50	\$1,204.65	\$1,204.64	\$1,204.64	\$1,204.64
3	Depreciable Property Net Capitalized Interest	Lns. 1 - 2	\$8,790.11	\$8,823.18	\$8,855.63	\$8,858.66	\$8,961.02	\$8,975.60	\$9,019.33
4	Depreciation Expense (Net Capitalized Interest)	Exhibit 22, Ln. 1	\$237	\$196	\$165	\$127	\$82	\$50	\$49
5	Gross Accumulated Depreciation	Cumulative sum, ln. 4	\$8,129	\$8,325	\$8,490	\$8,617	\$8,699	\$8,748	\$8,797
6	Composite Depreciation Rate (Net basis, unadjusted)	To 2000, Ln. 4/(Lns. 3+4-5); after, 31- BWF-E, Ln. 14	26.39%	28.23%	31.15%	34.42%	23.70%	17.87%	17.92%
7	TSM Basis Cumulative "Undepreciated Property Factor" to date	Prior Ln. 7 - Lns. (6 * 7)	5.85%	4.20%	2.89%	1.90%	1.45%	1.19%	0.98%

Appropriate Retirements from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	2000	2001	2002	2003	2004	2005	2006
1	Gross Depreciable Property EOY	Exhibit 8, Lns (9-8-7)	\$10,280.94						
2	Capitalized Interest - EOY	Exhibit 8, Ln. 10	\$1,204.64						
3	Depreciable Property Net Capitalized Interest	Lns. 1 - 2	\$9,076.31						
4	Depreciation Expense (Net Capitalized Interest)	Exhibit 22, Ln. 1	\$56						
5	Gross Accumulated Depreciation	Cumulative sum, Ln. 4	\$8,853						
6	Composite Depreciation Rate (Net basis, unadjusted)	To 2000, Ln. 4/(Lns. 3+4-5); after, 31-BWF-E, Ln. 14	20.19%	14.7448%	16.1863%	17.0635%	18.8198%	21.4145%	25.2500%
7	TSM Basis Cumulative "Undepreciated Property Factor" to date	Prior Ln. 7 - Lns. (6 * 7)	0.78%	0.66%	0.56%	0.46%	0.37%	0.29%	0.22%

Appropriate Retirement from Accumulated Depreciation, 1977-1996
(millions)

Line No.	Description	Source	2007	2008	2009	2010	2011
1	Gross Depreciable Property EOY	Exhibit 8, Lns (9-8-7)					
2	Capitalized Interest - EOY	Exhibit 8, Ln. 10					
3	Depreciable Property Net Capitalized Interest	Lns. 1 - 2					
4	Depreciation Expense (Net Capitalized Interest)	Exhibit 22, Ln. 1					
5	Gross Accumulated Depreciation	Cumulative sum, ln. 4					
6	Composite Depreciation Rate (Net basis, unadjusted)	To 2000, Ln. 4/(Lns. 3+4-5); after, 31- BWF-E, Ln. 14	29.0970%	35.3774%	42.3358%	54.4304%	100.0000%
7	TSM Basis Cumulative "Undepreciated Property Factor" to date	Prior Ln. 7 - Lns. (6 * 7)	0.16%	0.10%	0.06%	0.03%	0.00%

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrages to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	2,046	1,998	97.65%	2010	0.03%	2045.458
1978	58	48	82.76%	2005	0.29%	57.829
1979	77	74	96.10%	2010	0.03%	76.980
1980	72	63	87.50%	2007	0.16%	71.888
1981	586	575	98.12%	2010	0.03%	585.845
1982	92	87	94.57%	2009	0.06%	91.947
1983	36	31	86.11%	2006	0.22%	35.921
1984						
1985	3	3	100.00%	2011	0.00%	3.000
1986						
1987						
1988						
1989						
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	2,970	2,879				2,969

Weighted Average Vintage 1978

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrages to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	12,367	12,538	100.00%	2011	0.00%	12538.000
1978	2,770	2,769	99.96%	2011	0.00%	2770.000
1979	44	38	86.36%	2006	0.22%	43.903
1980	184	153	83.15%	2005	0.29%	183.458
1981	343	308	89.80%	2008	0.10%	342.654
1982	556	541	97.30%	2010	0.03%	555.853
1983	151	135	89.40%	2007	0.16%	150.764
1984	37	32	86.49%	2006	0.22%	36.919
1985	20	17	85.00%	2006	0.22%	19.956
1986	4	4	100.00%	2011	0.00%	4.000
1987						
1988						
1989						
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	16,476	16,535				16,646

Weighted Average Vintage 1978

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	10,449	10,361	99.16%	2011	0.00%	10449.000
1978	136	107	78.68%	2004	0.37%	135.491
1979	15	14	93.33%	2009	0.06%	14.991
1980	138	111	80.43%	2004	0.37%	137.483
1981	1,892	1,843	97.41%	2010	0.03%	1891.499
1982	189	169	89.42%	2007	0.16%	188.705
1983	104	88	84.62%	2006	0.22%	103.771
1984	16	12	75.00%	2003	0.46%	15.926
1985	17	11	64.71%	1999	0.98%	16.834
1986	16	5	31.25%	1988	21.57%	12.548
1987	7	7	100.00%	2011	0.00%	7.000
1988						
1989						
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	12,979	12,728				12,973

Weighted Average Vintage 1978

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	2,392	2,986	100.00%	2011	0.00%	2986.000
1978	33	40	100.00%	2011	0.00%	40.000
1979	129	82	63.57%	1999	0.98%	127.742
1980	104	79	75.96%	2003	0.46%	103.520
1981	1,080	234	21.67%	1984	45.03%	593.729
1982	244	212	86.89%	2007	0.16%	243.619
1983	1,217	190	15.61%	1982	60.35%	482.486
1984	47	42	89.36%	2007	0.16%	46.927
1985	56	33	58.93%	1997	1.45%	55.190
1986	24	24	100.00%	2011	0.00%	24.000
1987	3	3	100.00%	2011	0.00%	3.000
1988	17	11	64.71%	1999	0.98%	16.834
1989						
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	5,346	3,936				4,723

Weighted Average Vintage 1980

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrages to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	2,075	2,172	100.00%	2011	0.00%	2172.000
1978	349	349	100.00%	2011	0.00%	349.000
1979	4	4	100.00%	2011	0.00%	4.000
1980	26	26	100.00%	2011	0.00%	26.000
1981	97	94	96.91%	2010	0.03%	96.974
1982	267	256	95.88%	2010	0.03%	266.929
1983	1,155	81	7.01%	1979	84.94%	173.982
1984	356	355	99.72%	2011	0.00%	356.000
1985	12	12	100.00%	2011	0.00%	12.000
1986	24	24	100.00%	2011	0.00%	24.000
1987	5	5	100.00%	2011	0.00%	5.000
1988	27	20	74.07%	2002	0.56%	26.850
1989	5	2	40.00%	1991	10.58%	4.471
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	4,402	3,400				3,517

Weighted Average Vintage 1980

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrages to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	48,856	54,246	100.00%	2011	0.00%	54246.000
1978	32	29	90.63%	2008	0.10%	31.968
1979	18	12	66.67%	2000	0.78%	17.860
1980	773	756	97.80%	2010	0.03%	772.795
1981	61	37	60.66%	1998	1.19%	60.275
1982	489	439	89.78%	2008	0.10%	488.507
1983	1,047	541	51.67%	1995	2.89%	1016.719
1984	662	634	95.77%	2010	0.03%	661.825
1985	194	171	88.14%	2007	0.16%	193.697
1986	49	44	89.80%	2008	0.10%	48.951
1987	14	14	100.00%	2011	0.00%	14.000
1988	57	41	71.93%	2001	0.66%	56.622
1989	538	88	16.36%	1983	52.55%	255.275
1990	123	13	10.57%	1981	68.50%	38.741
1991	16	16	100.00%	2011	0.00%	16.000
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	52,929	57,081				57,919

Weighted Average Vintage 1978

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1976	1	1	100.00%	2011	0.00%	1.000
1977	8,205	8,161	99.46%	2011	0.00%	8205.000
1978	58	36	62.07%	1998	1.19%	57.311
1979	215	193	89.77%	2008	0.10%	214.783
1980	332	274	82.53%	2005	0.29%	331.023
1981	458	440	96.07%	2010	0.03%	457.879
1982	1,077	1,024	95.08%	2009	0.06%	1076.374
1983	1,746	801	45.88%	1993	5.85%	1643.804
1984	929	872	93.86%	2009	0.06%	928.460
1985	522	447	85.63%	2006	0.22%	520.851
1986	482	397	82.37%	2005	0.29%	480.581
1987	529	514	97.16%	2010	0.03%	528.860
1988	204	204	100.00%	2011	0.00%	204.000
1989	103	81	78.64%	2004	0.37%	102.614
1990	669	365	54.56%	1996	1.90%	656.311
1991	109	55	50.46%	1994	4.20%	104.421
1992	8	8	100.00%	2011	0.00%	8.000
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	15,646	13,872				15,520
Weighted Average Vintage		1980				

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1975	2	2	100.00%	2011	0.00%	2.000
1976						
1977	1,507	1,328	88.12%	2007	0.16%	1504.649
1978	439	447	100.00%	2011	0.00%	447.000
1979	355	370	100.00%	2011	0.00%	370.000
1980	211	141	66.82%	2000	0.78%	209.357
1981	681	645	94.71%	2009	0.06%	680.604
1982	2,133	2,009	94.19%	2009	0.06%	2131.760
1983	1,417	777	54.83%	1996	1.90%	1390.123
1984	309	260	84.14%	2006	0.22%	308.320
1985	241	230	95.44%	2009	0.06%	240.860
1986	363	310	85.40%	2006	0.22%	362.201
1987	655	579	88.40%	2007	0.16%	653.978
1988	997	820	82.25%	2005	0.29%	994.065
1989	276	190	68.84%	2000	0.78%	273.851
1990	558	414	74.19%	2002	0.56%	554.896
1991	98	97	98.98%	2011	0.00%	98.000
1992	196	86	43.88%	1992	7.95%	180.414
1993	545	145	26.61%	1986	32.70%	366.763
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	10,981	8,848				10,767
Weighted Average Vintage		1984				

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	2,514	2,488	98.97%	2011	0.00%	2514.000
1978	206	191	92.72%	2009	0.06%	205.880
1979	5	3	60.00%	1997	1.45%	4.928
1980	134	120	89.55%	2007	0.16%	133.791
1981	614	535	87.13%	2007	0.16%	613.042
1982	1,608	1,249	77.67%	2003	0.46%	1600.581
1983	3,388	1,613	47.61%	1993	5.85%	3189.696
1984	585	501	85.64%	2006	0.22%	583.713
1985	20	15	75.00%	2003	0.46%	19.908
1986	112	87	77.68%	2003	0.46%	111.483
1987	114	81	71.05%	2001	0.66%	113.243
1988	158	113	71.52%	2001	0.66%	156.951
1989	358	204	56.98%	1996	1.90%	351.210
1990	149	133	89.26%	2007	0.16%	148.768
1991	200	137	68.50%	2000	0.78%	198.443
1992	139	99	71.22%	2001	0.66%	138.077
1993	18	8	44.44%	1992	7.95%	16.569
1994						
1995						
1996						
1997						
1998						
1999						
2000						
Total	10,322	7,577				10,100

Weighted Average Vintage 1982

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	116	123	100.00%	2011	0.00%	123.000
1978	81	62	76.54%	2003	0.46%	80.626
1979						
1980	37	33	89.19%	2007	0.16%	36.942
1981	291	233	80.07%	2004	0.37%	289.910
1982	528	480	90.91%	2008	0.10%	527.468
1983	858	54	6.29%	1979	84.94%	129.244
1984	138	129	93.48%	2009	0.06%	137.920
1985	40	41	100.00%	2011	0.00%	41.000
1986	27	27	100.00%	2011	0.00%	27.000
1987	52	52	100.00%	2011	0.00%	52.000
1988	34	27	79.41%	2004	0.37%	33.873
1989	342	329	96.20%	2010	0.03%	341.909
1990	541	519	95.93%	2010	0.03%	540.857
1991	135	120	88.89%	2007	0.16%	134.789
1992	20	20	100.00%	2011	0.00%	20.000
1993	116	95	81.90%	2005	0.29%	115.659
1994	10	7	70.00%	2001	0.66%	9.934
1995						
1996						
1997						
1998						
1999						
2000						
Total	3,366	2,351				2,642
Weighted Average Vintage						
		1985				

Appropriate Retirements from Accumulated Depreciaton, 1977-1996
(millions)

Retirements by Vintage Year	a Credits to Property	b Charges to Accrued Depreciation	c Useful life as proportion of Inferred Expected Life	d Year of retirement, assuming normalized 34.5 year life	e Adjusted Undepreciated Property As Percentage of Property Retired	f Adjusted Chrges to Accrued Depreciation
	FERC Form 6	FERC Form 6	b/a	if b>a, 2011, else c*34 + 1977	lookup ln. 7 from Sch. 2, given d	a*(1-e)
1977	2,146	1,244	57.97%	1997	1.45%	2114.942
1978	79	80	100.00%	2011	0.00%	80.000
1979	184	64	34.78%	1989	17.08%	152.581
1980	17	-3	N/A	N/A	100.00%	-3.000
1981	1,565	1,186	75.78%	2003	0.46%	1557.779
1982	4,380	3,342	76.30%	2003	0.46%	4359.790
1983	3,366	2,503	74.36%	2002	0.56%	3347.273
1984	1,477	879	59.51%	1997	1.45%	1455.624
1985	58	44	75.86%	2003	0.46%	57.732
1986	307	158	51.47%	1994	4.20%	294.104
1987	382	342	89.53%	2007	0.16%	381.404
1988	776	565	72.81%	2002	0.56%	771.683
1989	731	205	28.04%	1987	26.88%	534.473
1990	7,252	6,296	86.82%	2007	0.16%	7240.686
1991	1,385	1,020	73.65%	2002	0.56%	1377.295
1992	524	389	74.24%	2002	0.56%	521.085
1993	280	170	60.71%	1998	1.19%	276.672
1994	13	14	100.00%	2011	0.00%	14.000
1995						
1996						
1997						
1998						
1999						
2000						
Sub Total	24,922	18,498				24,534

Weighted Average Vintage 1985

1% Net Sale	89,910	70,831	78.78%	2004	0.37%	89,573.220
Total	114,832	89,329				114,107

Appropriate Factors for Amortization of AFUDC, 1977-1996
(Percentages)

Line No.	Description	1977	1978	1979	1980	1981	1982	1983	1984
1	Grand Total, Carrier Property - EOY (millions)	\$9,133	\$9,289	\$9,373	\$9,486	\$9,531	\$9,572	\$9,613	\$9,634
2	Land - EOY (millions)	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17
3	CWIP - EOY (millions)	\$42	\$24	\$28	\$29	\$29	\$33	\$15	\$4
4	Capitalized Interest - EOY (millions)	\$1,216	\$1,216	\$1,216	\$1,216	\$1,215	\$1,215	\$1,215	\$1,214
5	Gross Depreciable Property, Less IDC, EOY (millions)	\$7,859	\$8,033	\$8,113	\$8,224	\$8,270	\$8,306	\$8,366	\$8,399
6	Appropriate Depreciation Expense (millions)	\$108	\$501	\$605	\$693	\$668	\$682	\$660	\$642
7	Accumulated P-97-4 Depreciation (millions)	\$108	\$602	\$1,197	\$1,838	\$2,505	\$3,173	\$3,811	\$4,441
8	Amortization Rate - Net Basis	1.38%	6.31%	8.05%	9.79%	10.38%	11.72%	12.66%	13.95%

Appropriate Factors for Amortization of AFUDC, 1977-1996
(Percenrages)

Line No.	Description	1985	1986	1987	1988	1989	1990	1991	1992
1	Grand Total, Carrier Property - EOY (millions)	Exhibit 8, Ln. 9	\$9,646	\$9,665	\$9,680	\$9,684	\$9,726	\$9,965	\$10,020
2	Land - EOY (millions)	Exhibit 8, Ln. 7	\$17	\$17	\$17	\$17	\$18	\$18	\$18
3	CWIP - EOY (millions)	Exhibit 8, Ln. 8	\$1	\$2	\$2	\$9	\$20	\$32	\$34
4	Capitalized Interest - EOY (millions)	Exhibit 8, Ln. 10	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214	\$1,214
5	Gross Depreciable Property, Less IDC, EOY (millions)	Ln 1 - Lns(2 + 3 + 4)	\$8,414	\$8,431	\$8,447	\$8,444	\$8,475	\$8,701	\$8,755
6	Appropriate Depreciation Expense (millions)	Exhibit 22, Ln. 3	\$543	\$515	\$504	\$459	\$395	\$296	\$286
7	Accumulated P-97-4 Depreciation (millions)	Exhibit 22, Ln. 6	\$4,970	\$5,482	\$5,969	\$6,415	\$6,806	\$7,375	\$7,646
8	Amortization Rate - Net Basis	Ln 6 / Lns (5 + 6 - 7)	13.62%	14.85%	16.89%	18.44%	19.15%	18.23%	20.49%

Appropriate Factors for Amortization of AFUDC, 1977-1996
(Percenages)

Line No.	Description	1993	1994	1995	1996
1	Grand Total, Carrier Property - EOY (millions)	Exhibit 8, Ln. 9	\$10,045	\$10,139	\$10,156
2	Land - EOY (millions)	Exhibit 8, Ln. 7	\$18	\$19	\$19
3	CWIP - EOY (millions)	Exhibit 8, Ln. 8	\$24	\$31	\$74
4	Capitalized Interest - EOY (millions)	Exhibit 8, Ln. 10	\$1,214	\$1,214	\$1,205
5	Gross Depreciable Property, Less IDC, EOY (millions)	Ln 1 - Lns(2 + 3 + 4)	\$8,790	\$8,823	\$8,859
6	Appropriate Depreciation Expense (millions)	Exhibit 22, Ln. 3	\$237	\$196	\$127
7	Accumulated P-97-4 Depreciation (millions)	Exhibit 22, Ln. 6	\$7,872	\$8,058	\$8,252
8	Amortization Rate - Net Basis	Ln 6 / Lns (5 + 6 - 7)	20.52%	20.39%	17.29%

Appropriate Amortization of AFUDC, 1977-1996
(millions \$)

Line No.	Description	Source	Starting Balances	1977	1978	1979	1980	1981	1982	1983
1	Amortization Factor - Net Basis	Exhibit 24, Ln. 8		1.38%	6.31%	8.05%	9.79%	10.38%	11.72%	12.66%
2	Net Equity AFUDC - BOY	Prior Ln. 5		\$1,491	\$1,471	\$1,385	\$1,278	\$1,160	\$1,049	\$936
3	Equity AFUDC Additions	Exhibit 21, Col. 13	\$1,491	\$1	\$7	\$4	\$8	\$10	\$11	\$7
4	Current Period Equity AFUDC Amortization	(Ln.2 + Ln.3) * Ln.1		\$21	\$93	\$112	\$126	\$122	\$124	\$119
5	Net Equity AFUDC - EOY	Lns. (2 + 3 - 4)	\$1,491	\$1,471	\$1,385	\$1,278	\$1,160	\$1,049	\$936	\$823
6	Accumulated Equity AFUDC Additions	Ln. 3 + Prior Ln. 6	\$1,491	\$1,492	\$1,499	\$1,503	\$1,512	\$1,522	\$1,533	\$1,540
7	Accumulated Equity AFUDC Amortization	Ln. 4 + Prior Ln. 7		\$21	\$114	\$226	\$352	\$473	\$598	\$717
8	Net Debt AFUDC - BOY	Prior Ln. 11		\$433	\$428	\$405	\$374	\$341	\$310	\$278
9	Debt AFUDC Additions	Exhibit 21, Col. 22	\$433	\$1	\$4	\$2	\$4	\$5	\$5	\$3
10	Current Period Debt AFUDC Amortization	(Ln. 8 + Ln. 9) * Ln.1		\$6	\$27	\$33	\$37	\$36	\$37	\$36
11	Net Debt AFUDC - EOY	Lns. (8 + 9 - 10)	\$433	\$428	\$405	\$374	\$341	\$310	\$278	\$246
12	Accumulated Debt AFUDC Additions	Ln. 9 + Prior Ln. 12	\$433	\$434	\$438	\$440	\$444	\$449	\$454	\$457
13	Accumulated Debt AFUDC Amortization	Ln. 10 + Prior Ln. 13		\$6	\$33	\$66	\$103	\$139	\$176	\$212
14	Total Current Period AFUDC Amortization	Ln. 4 + Ln. 10		\$27	\$121	\$145	\$163	\$158	\$161	\$155

Appropriate Amortization of AFUDC, 1977-1996
(millions \$)

Line No.	Description	Source	1984	1985	1986	1987	1988	1989	1990	1991
1	Amortization Factor - Net Basis	Exhibit 24, Ln. 8	13.95%	13.62%	14.85%	16.89%	18.44%	19.15%	19.18%	18.23%
2	Net Equity AFUDC - BOY	Prior Ln. 5	\$823	\$712	\$615	\$524	\$436	\$356	\$288	\$235
3	Equity AFUDC Additions	Exhibit 21, Col. 13	\$4	\$1	\$0	\$1	\$0	\$1	\$2	\$6
4	Current Period Equity AFUDC Amortization	(Ln.2 + Ln.3) * Ln.1	\$115	\$97	\$91	\$89	\$80	\$68	\$56	\$44
5	Net Equity AFUDC - EOY	Lns. (2 + 3 - 4)	\$712	\$615	\$524	\$436	\$356	\$288	\$235	\$197
6	Accumulated Equity AFUDC Additions	Ln. 3 + Prior Ln. 6	\$1,544	\$1,545	\$1,545	\$1,545	\$1,546	\$1,547	\$1,548	\$1,555
7	Accumulated Equity AFUDC Amortization	Ln. 4 + Prior Ln. 7	\$832	\$929	\$1,021	\$1,109	\$1,190	\$1,258	\$1,314	\$1,358
8	Net Debt AFUDC - BOY	Prior Ln. 11	\$246	\$213	\$184	\$157	\$131	\$107	\$87	\$71
9	Debt AFUDC Additions	Exhibit 21, Col. 22	\$2	\$0	\$0	\$0	\$0	\$0	\$1	\$4
10	Current Period Debt AFUDC Amortization	(Ln. 8 + Ln. 9) * Ln.1	\$35	\$29	\$27	\$27	\$24	\$21	\$17	\$14
11	Net Debt AFUDC - EOY	Lns. (8 + 9 - 10)	\$213	\$184	\$157	\$131	\$107	\$87	\$71	\$61
12	Accumulated Debt AFUDC Additions	Ln. 9 + Prior Ln. 12	\$459	\$459	\$460	\$460	\$460	\$461	\$462	\$465
13	Accumulated Debt AFUDC Amortization	Ln. 10 + Prior Ln. 13	\$246	\$275	\$303	\$329	\$353	\$374	\$391	\$404
14	Total Current Period AFUDC Amortization	Ln. 4 + Ln. 10	\$150	\$126	\$119	\$115	\$105	\$89	\$73	\$58

Appropriate Amortization of AFUDC, 1977-1996
(millions \$)

Line No.	Description	Source	1992	1993	1994	1995	1996
1	Amortization Factor - Net Basis	Exhibit 24, Ln. 8	20.49%	20.52%	20.39%	20.65%	17.29%
2	Net Equity AFUDC - BOY	Prior Ln. 5	\$197	\$160	\$129	\$105	\$85
3	Equity AFUDC Additions	Exhibit 21, Col. 13	\$4	\$3	\$2	\$2	\$2
4	Current Period Equity AFUDC Amortization	(Ln.2 + Ln.3) * Ln.1	\$41	\$33	\$27	\$22	\$15
5	Net Equity AFUDC - EOY	Lns. (2 + 3 - 4)	\$160	\$129	\$105	\$85	\$72
6	Accumulated Equity AFUDC Additions	Ln. 3 + Prior Ln. 6	\$1,559	\$1,562	\$1,564	\$1,566	\$1,568
7	Accumulated Equity AFUDC Amortization	Ln. 4 + Prior Ln. 7	\$1,399	\$1,432	\$1,459	\$1,481	\$1,496
8	Net Debt AFUDC - BOY	Prior Ln. 11	\$61	\$50	\$41	\$34	\$28
9	Debt AFUDC Additions	Exhibit 21, Col. 22	\$3	\$2	\$1	\$1	\$1
10	Current Period Debt AFUDC Amortization	(Ln. 8 + Ln. 9) * Ln.1	\$13	\$11	\$9	\$7	\$5
11	Net Debt AFUDC - EOY	Lns. (8 + 9 - 10)	\$50	\$41	\$34	\$28	\$24
12	Accumulated Debt AFUDC Additions	Ln. 9 + Prior Ln. 12	\$468	\$469	\$471	\$472	\$473
13	Accumulated Debt AFUDC Amortization	Ln. 10 + Prior Ln. 13	\$417	\$428	\$437	\$444	\$449
14	Total Current Period AFUDC Amortization	Ln. 4 + Ln. 10	\$54	\$44	\$36	\$29	\$20

Appropriate State Tax Depreciation, 1977-1996
(millions \$)

State Tax Depreciation				Year									
Year	Property Additions (a)	AFUDC Additions (b)	Tax Basis for Depreciation (c) (a) + (b)	1 1977	2 1978	3 1979	4 1980	5 1981	6 1982	7 1983	8 1984	9 1985	10 1986
Depreciation Factors - (1977)				5.71%	4.00%	4.00%	4.00%	4.00%	10.22%	9.61%	9.00%	8.38%	7.77%
Depreciation Factors - (1978)				2.00%	4.00%	4.00%	4.00%	10.75%	10.14%	9.52%	8.91%	8.29%	7.68%
Depreciation Factors - (1979)				2.00%	4.00%	4.00%	10.84%	10.23%	9.61%	9.00%	8.39%	7.77%	7.16%
Depreciation Factors - (1980)				2.00%	4.00%	10.87%	10.28%	9.65%	9.03%	8.42%	7.80%	7.19%	6.58%
Depreciation Factors - (1981)				2.00%	11.15%	10.20%	9.58%	8.97%	8.35%	7.74%	7.13%	6.51%	5.90%
Depreciation Factors - (1982-present)				5.71%	10.78%	9.82%	9.21%	8.60%	7.98%	7.37%	6.75%	6.14%	5.53%
Year	Property Additions (a)	AFUDC Additions (b)	Tax Basis for Depreciation (c) (a) + (b)	1 1977	2 1978	3 1979	4 1980	5 1981	6 1982	7 1983	8 1984	9 1985	10 1986
1977	1	\$7,889	\$434	\$8,322	\$476	\$333	\$333	\$333	\$851	\$800	\$749	\$698	\$646
1978	2	\$112	\$4	\$117	\$0	\$2	\$5	\$5	\$13	\$12	\$11	\$10	\$10
1979	3	\$97	\$2	\$99	\$0	\$0	\$2	\$4	\$11	\$10	\$9	\$9	\$8
1980	4	\$123	\$4	\$128	\$0	\$0	\$0	\$3	\$14	\$13	\$12	\$12	\$11
1981	5	\$49	\$5	\$54	\$0	\$0	\$0	\$1	\$6	\$6	\$5	\$5	\$5
1982	6	\$60	\$5	\$65	\$0	\$0	\$0	\$0	\$4	\$7	\$6	\$6	\$6
1983	7	\$84	\$3	\$87	\$0	\$0	\$0	\$0	\$0	\$5	\$9	\$9	\$8
1984	8	\$51	\$2	\$53	\$0	\$0	\$0	\$0	\$0	\$3	\$3	\$6	\$5
1985	9	\$29	\$0	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2	\$3
1986	10	\$20	\$0	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1
1987	11	\$33	\$0	\$33	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1988	12	\$10	\$0	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1989	13	\$37	\$0	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1990	14	\$81	\$1	\$82	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1991	15	\$203	\$4	\$206	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1992	16	\$69	\$3	\$72	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1993	17	\$46	\$2	\$47	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1994	18	\$43	\$1	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1995	19	\$36	\$1	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1996	20	\$29	\$1	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total State Tax Depreciation				\$476	\$335	\$340	\$344	\$348	\$898	\$852	\$806	\$755	\$703
				For 1977, Exh. 8, Lns 3 - (1+2+10)									

Appropriate State Tax Depreciation, 1977-1996
(millions \$)

State Tax Depreciation		Year									
		11 1987	12 1988	13 1989	14 1990	15 1991	16 1992	17 1993	18 1994	19 1995	20 1996
Depreciation Factors - (1977)		7.15%	6.54%	5.93%	5.31%	4.70%	1.84%	1.23%	0.61%	0.00%	0.00%
Depreciation Factors - (1978)		7.06%	6.45%	5.84%	5.22%	2.46%	1.84%	1.23%	0.61%	0.00%	0.00%
Depreciation Factors - (1979)		6.54%	5.93%	5.32%	3.07%	2.46%	1.84%	1.23%	0.61%	0.00%	0.00%
Depreciation Factors - (1980)		5.96%	5.35%	3.68%	3.07%	2.46%	1.84%	1.23%	0.61%	0.00%	0.00%
Depreciation Factors - (1981)		5.28%	4.30%	3.68%	3.07%	2.46%	1.84%	1.23%	0.61%	0.00%	0.00%
Depreciation Factors - (1982-present)		4.91%	4.30%	3.68%	3.07%	2.46%	1.84%	1.23%	0.61%	0.00%	0.00%
Property											
Year	AFUDC Additions (a) Exhibit 8, Lns. 3 - (1+2) ¹	Tax Basis for Depreciation (c) (a) + (b)									
1977 1	\$7,889	\$434	\$595	\$493	\$442	\$391	\$153	\$102	\$51	\$0	\$0
1978 2	\$112	\$4	\$9	\$8	\$7	\$6	\$3	\$2	\$1	\$1	\$0
1978 3	\$97	\$2	\$8	\$6	\$6	\$5	\$3	\$2	\$2	\$1	\$1
1980 4	\$123	\$4	\$9	\$8	\$8	\$7	\$5	\$4	\$3	\$2	\$2
1981 5	\$49	\$5	\$4	\$4	\$3	\$3	\$2	\$2	\$2	\$1	\$1
1982 6	\$60	\$5	\$5	\$4	\$4	\$4	\$3	\$3	\$2	\$2	\$2
1983 7	\$84	\$3	\$7	\$6	\$6	\$5	\$5	\$4	\$4	\$3	\$3
1984 8	\$51	\$2	\$5	\$4	\$4	\$4	\$3	\$3	\$2	\$2	\$2
1985 9	\$29	\$0	\$3	\$3	\$2	\$2	\$2	\$2	\$2	\$1	\$1
1986 10	\$20	\$0	\$2	\$2	\$2	\$2	\$1	\$1	\$1	\$1	\$1
1987 11	\$33	\$0	\$3	\$3	\$3	\$3	\$3	\$2	\$2	\$2	\$2
1988 12	\$10	\$0	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1
1988 13	\$37	\$0	\$0	\$2	\$4	\$4	\$3	\$3	\$3	\$3	\$3
1990 14	\$81	\$1	\$0	\$0	\$5	\$9	\$6	\$8	\$7	\$7	\$6
1991 15	\$203	\$4	\$0	\$0	\$0	\$12	\$22	\$20	\$19	\$18	\$16
1992 16	\$69	\$3	\$0	\$0	\$0	\$0	\$4	\$8	\$7	\$7	\$6
1993 17	\$46	\$2	\$0	\$0	\$0	\$0	\$0	\$3	\$5	\$5	\$4
1994 18	\$43	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3	\$5
1995 19	\$36	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2	\$4
1996 20	\$29	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2
Total State Tax Depreciation		\$651	\$598	\$545	\$496	\$456	\$222	\$171	\$117	\$64	\$60

Appropriate Federal Tax Depreciation, 1977-1996
(millions \$)

Federal Tax Depreciation		Year						
		1	2	3	4	5	6	7
		1977	1978	1979	1980	1981	1982	1983
Depreciation Factors - (1977-1980)		5.71%	10.78%	9.82%	9.21%	8.60%	7.98%	7.37%
Depreciation Factors - (1981-1986)		15.00%	22.00%	21.00%	21.00%	21.00%	0.00%	0.00%
Depreciation Factors - (1987-Present)		5.00%	9.50%	8.55%	7.70%	6.93%	6.23%	5.90%
Year								
		Property Addition (a)	AFUDC Addition (b)	TEFRA Adjustment (c)	Tax Basis for Depreciation (d)			
		Exhibit 8, Lns. 3 - (1+2)1	Exhibit 21 col 22	Exhibit 27, Ln. 3	(a) + (b) - (c)			
1977	1	\$7,889	\$434	\$0	\$8,322	\$476	\$897	\$818
1978	2	\$112	\$4	\$0	\$117	\$0	\$7	\$13
1979	3	\$97	\$2	\$0	\$99	\$0	\$0	\$6
1980	4	\$123	\$4	\$0	\$128	\$0	\$0	\$0
1981	5	\$49	\$5	\$0	\$54	\$0	\$0	\$0
1982	6	\$60	\$5	\$0	\$65	\$0	\$0	\$0
1983	7	\$84	\$3	\$4	\$83	\$0	\$0	\$0
1984	8	\$51	\$2	\$3	\$50	\$0	\$0	\$0
1985	9	\$29	\$0	\$1	\$28	\$0	\$0	\$0
1986	10	\$20	\$0	\$0	\$20	\$0	\$0	\$0
1987	11	\$33	\$0	\$0	\$33	\$0	\$0	\$0
1988	12	\$10	\$0	\$0	\$10	\$0	\$0	\$0
1989	13	\$37	\$0	\$0	\$37	\$0	\$0	\$0
1990	14	\$81	\$1	\$0	\$82	\$0	\$0	\$0
1991	15	\$203	\$4	\$0	\$206	\$0	\$0	\$0
1992	16	\$69	\$3	\$0	\$72	\$0	\$0	\$0
1993	17	\$46	\$2	\$0	\$47	\$0	\$0	\$0
1994	18	\$43	\$1	\$0	\$45	\$0	\$0	\$0
1995	19	\$36	\$1	\$0	\$37	\$0	\$0	\$0
1996	20	\$29	\$1	\$0	\$30	\$0	\$0	\$0
Total Federal Tax Depreciation						\$476	\$903	\$836
						\$718	\$758	\$681

¹ For 1977, Exh. 8, Lns 3 - (1+2+10)

Appropriate Federal Tax Depreciation, 1977-1996
(millions \$)

Federal Tax Depreciation		Year		8 1984	9 1985	10 1986	11 1987	12 1988	13 1989	14 1990
Depreciation Factors - (1977-1980)				6.75%	6.14%	5.53%	4.91%	4.30%	3.68%	3.07%
Depreciation Factors - (1981-1986)				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Depreciation Factors - (1987-Present)				5.90%	5.90%	5.90%	5.90%	5.90%	5.90%	5.90%
Year	Property Addition (a)	AFUDC Addition (b)	TEFRA Adjustment (c)	Tax Basis for Depreciation (d)						
	Exhibit 8, Lns. 3 - (1+2)	Exhibit 21 col 22	Exhibit 27, Ln. 3	(a) + (b) - (c)						
1977	1	\$7,889	\$434	\$0	\$8,322	\$562	\$511	\$460	\$409	\$358
1978	2	\$112	\$4	\$0	\$117	\$9	\$8	\$7	\$6	\$5
1979	3	\$97	\$2	\$0	\$99	\$8	\$7	\$7	\$5	\$4
1980	4	\$123	\$4	\$0	\$128	\$11	\$10	\$9	\$8	\$6
1981	5	\$49	\$5	\$0	\$54	\$11	\$11	\$0	\$0	\$0
1982	6	\$60	\$5	\$0	\$65	\$14	\$14	\$14	\$0	\$0
1983	7	\$84	\$3	\$4	\$83	\$18	\$17	\$17	\$0	\$0
1984	8	\$51	\$2	\$3	\$50	\$7	\$11	\$10	\$0	\$0
1985	9	\$29	\$0	\$1	\$28	\$0	\$4	\$6	\$6	\$0
1986	10	\$20	\$0	\$0	\$20	\$0	\$0	\$3	\$4	\$4
1987	11	\$33	\$0	\$0	\$33	\$0	\$0	\$0	\$2	\$3
1988	12	\$10	\$0	\$0	\$10	\$0	\$0	\$0	\$1	\$1
1989	13	\$37	\$0	\$0	\$37	\$0	\$0	\$0	\$0	\$1
1990	14	\$81	\$1	\$0	\$82	\$0	\$0	\$0	\$0	\$4
1991	15	\$203	\$4	\$0	\$206	\$0	\$0	\$0	\$0	\$0
1992	16	\$69	\$3	\$0	\$72	\$0	\$0	\$0	\$0	\$0
1993	17	\$46	\$2	\$0	\$47	\$0	\$0	\$0	\$0	\$0
1994	18	\$43	\$1	\$0	\$45	\$0	\$0	\$0	\$0	\$0
1995	19	\$36	\$1	\$0	\$37	\$0	\$0	\$0	\$0	\$0
1996	20	\$29	\$1	\$0	\$30	\$0	\$0	\$0	\$0	\$0
Total Federal Tax Depreciation				\$640	\$594	\$534	\$470	\$401	\$339	\$286

Appropriate Federal Tax Depreciation, 1977-1996
(millions \$)

Federal Tax Depreciation										Year		15 1991		16 1992		17 1993		18 1994		19 1995		20 1996	
										Depreciation Factors - (1977-1980)		2.46%		1.84%		1.23%		0.61%		0.00%		0.00%	
										Depreciation Factors - (1981-1986)		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%	
										Depreciation Factors - (1987-Present)		5.90%		2.95%		0.00%		0.00%		0.00%		0.00%	
Year										Property Addition (a)		AFUDC Addition (b)		TEFRA Adjustment (c)		Tax Basis for Depreciation (d)							
										Exhibit 8, Lns. 3 - (1+2) ¹		Exhibit 21 col 22		Exhibit 27, (a) + (b) - (c)									
1977	1	\$7,889	\$434	\$0	\$8,322	\$204	\$153	\$102	\$51	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1978	2	\$112	\$4	\$0	\$117	\$4	\$3	\$2	\$1	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1979	3	\$97	\$2	\$0	\$99	\$4	\$3	\$2	\$2	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1980	4	\$123	\$4	\$0	\$128	\$5	\$5	\$4	\$3	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1981	5	\$49	\$5	\$0	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1982	6	\$60	\$5	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1983	7	\$84	\$3	\$4	\$83	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1984	8	\$51	\$2	\$3	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1985	9	\$29	\$0	\$1	\$28	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1986	10	\$20	\$0	\$0	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1987	11	\$33	\$0	\$0	\$33	\$2	\$2	\$2	\$2	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	
1988	12	\$10	\$0	\$0	\$10	\$3	\$3	\$3	\$3	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	
1989	13	\$37	\$0	\$0	\$37	\$8	\$8	\$8	\$8	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	\$7	
1990	14	\$81	\$1	\$0	\$82	\$10	\$10	\$10	\$10	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	
1991	15	\$203	\$4	\$0	\$206	\$7	\$7	\$7	\$7	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	\$16	
1992	16	\$69	\$3	\$0	\$72	\$0	\$4	\$5	\$6	\$5	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	
1993	17	\$46	\$2	\$0	\$47	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1994	18	\$43	\$1	\$0	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1995	19	\$36	\$1	\$0	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
1996	20	\$29	\$1	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Federal Tax Depreciation										\$241	\$200	\$149	\$97	\$44	\$42								

Appropriate TEFRA Adjustment to Rates, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983
1	Tax Depreciation Basis before TEFRA Adjustment	Exhibit 26, Schedule 1, col c	\$8,322	\$117	\$99	\$128	\$54	\$65	\$87
2	Tax Depreciation Basis Reduction	143-RGV-C, TAPS-RGV WP3, Sch. 8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%
3	TEFRA Adjustment	Ln. 1 * Ln. 2	\$0	\$0	\$0	\$0	\$0	\$0	\$4
4	TEFRA Adjustment Balance (BOY)	Ln. 3 + Prior Ln. 7	\$0	\$0	\$0	\$0	\$0	\$0	\$4
5	Depreciation Factor	Exhibit 24, Ln. 8	1.38%	6.31%	8.05%	9.79%	10.38%	11.72%	12.66%
6	Amortization of TEFRA Adjustment	Ln. 4 * Ln. 5	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.553
7	TEFRA Adjustment Balance (EOY)	Ln. 4 - Ln. 6	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$3.816

Appropriate TEFRA Adjustment to Rates, 1977-1996
(millions \$)

Line No.	Description	Source	1984	1985	1986	1987	1988	1989	1990
1	Tax Depreciation Basis before TEFRA Adjustment	Exhibit 26, Schedule 1, col c	\$53	\$29	\$20	\$33	\$10	\$37	\$82
2	Tax Depreciation Basis Reduction	143-RGV-C, TAPS-RGV WP3, Sch. 8	5.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	TEFRA Adjustment	Ln. 1 * Ln. 2	\$3	\$1	\$0	\$0	\$0	\$0	\$0
4	TEFRA Adjustment Balance (BOY)	Ln. 3 + Prior Ln. 7	\$6	\$7	\$6	\$5	\$4	\$3	\$3
5	Depreciation Factor	Exhibit 24, Ln. 8	13.95%	13.62%	14.85%	16.89%	18.44%	19.15%	19.18%
6	Amortization of TEFRA Adjustment	Ln. 4 * Ln. 5	\$0.899	\$0.954	\$0.899	\$0.870	\$0.790	\$0.669	\$0.541
7	TEFRA Adjustment Balance (EOY)	Ln. 4 - Ln. 6	\$5.546	\$6.051	\$5.152	\$4.282	\$3.492	\$2.823	\$2.282

Appropriate TEFRA Adjustment to Rates, 1977-1996
(millions \$)

Line No.	Description	Source	1991	1992	1993	1994	1995	1996
1	Tax Depreciation Basis before TEFRA Adjustment	Exhibit 26, Schedule 1, col c	\$206	\$72	\$47	\$45	\$37	\$30
2	Tax Depreciation Basis Reduction	143-RGV-C, TAPS-RGV WP3, Sch. 8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	TEFRA Adjustment	Ln. 1 * Ln. 2	\$0	\$0	\$0	\$0	\$0	\$0
4	TEFRA Adjustment Balance (BOY)	Ln. 3 + Prior Ln. 7	\$2	\$2	\$1	\$1	\$1	\$1
5	Depreciation Factor	Exhibit 24, Ln. 8	18.23%	20.49%	20.52%	20.39%	20.65%	17.29%
6	Amortization of TEFRA Adjustment	Ln. 4 * Ln. 5	\$0.416	\$0.382	\$0.305	\$0.240	\$0.194	\$0.129
7	TEFRA Adjustment Balance (EOY)	Ln. 4 - Ln. 6	\$1.866	\$1.484	\$1.179	\$0.939	\$0.745	\$0.616

Appropriate ADIT Balances, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1	Regulatory Depreciation Incl. Amortization of Debt AFUDC	Exh. 22 Ln. 3+Exh. 25 Ln. 10	\$114	\$528	\$638	\$730	\$704	\$719	\$696	\$676	\$572	\$542
2	State Tax Depreciation	Exhibit 26, Schedule 1	\$476	\$335	\$340	\$344	\$348	\$398	\$852	\$806	\$755	\$703
3	State Tax Timing Differences	Ln. 2 - Ln. 1	\$361	(\$193)	(\$298)	(\$386)	(\$356)	\$179	\$156	\$129	\$183	\$161
4	State Income Tax Rate	AK Stat.	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%
5	State Tax Effect	Ln. 3 * Ln. 4	\$34	(\$18)	(\$28)	(\$36)	(\$33)	\$17	\$15	\$12	\$17	\$15
6	State ADIT Balance	Ln. 5 + Prior Ln. 6	\$34	\$16	(\$12)	(\$49)	(\$82)	(\$65)	(\$50)	(\$38)	(\$21)	(\$6)
7	Regulatory Depreciation Incl. Amortization of Debt AFUDC	Ln. 1	\$114	\$528	\$638	\$730	\$704	\$719	\$696	\$676	\$572	\$542
8	Depreciation of TEFRA Adjustment	Exhibit 27, Ln. 6	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1	\$1	\$1
9	Regulatory Depreciation after TEFRA Adjustment	Ln. 7 - Ln. 8	\$114	\$528	\$638	\$730	\$704	\$719	\$696	\$675	\$571	\$541
10	Federal Tax Depreciation	Exhibit 26, Schedule 2	\$476	\$903	\$836	\$796	\$758	\$718	\$681	\$640	\$594	\$534
11	Tax Effect of State Timing Differences	Ln. 5	\$34	(\$18)	(\$28)	(\$36)	(\$33)	\$17	\$15	\$12	\$17	\$15
12	Total Federal Tax Deductions	Ln. 10 - Ln. 11	\$442	\$922	\$864	\$832	\$791	\$701	\$666	\$628	\$577	\$519
13	Federal Tax Timing Differences	Ln. 12 - Ln. 9	\$327	\$393	\$226	\$102	\$87	(\$18)	(\$29)	(\$47)	\$6	(\$22)
14	Federal Income Tax Rate	IRC	48.00%	48.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%
15	Federal Tax Effect	Ln. 13 * Ln. 14	\$157	\$189	\$104	\$47	\$40	(\$8)	(\$13)	(\$22)	\$3	(\$10)
16	FASB 96/109 Adjustment	Cum. Ln 13 * Change in Ln 14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Amortization Basis for FASB 96/109 Adjustment	Lns(Prior 17 + 16 - Prior 18)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Amortization of FASB 96/109 Adjustment	Ln. 17 * Exhibit 24 Ln. 8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	Federal ADIT Balance	Prior Ln.19 + Ln.15 - Ln.18	\$157	\$346	\$450	\$497	\$537	\$529	\$515	\$494	\$496	\$486
20	Total State And Federal ADIT Balances	Ln. 6 + Ln. 19	\$191	\$362	\$438	\$448	\$455	\$464	\$465	\$455	\$475	\$480

Appropriate ADIT Balances, 1977-1996
(millions \$)

Line No.	Description	Source	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1	Regulatory Depreciation Incl. Amortization of Debt AFUDC	Exh. 22 Ln. 3+Exh. 25 Ln. 10	\$530	\$483	\$416	\$352	\$309	\$299	\$248	\$205	\$173	\$132
2	State Tax Depreciation	Exhibit 26, Schedule 1	\$651	\$598	\$545	\$496	\$456	\$222	\$171	\$117	\$64	\$60
3	State Tax Timing Differences	Ln. 2 - Ln. 1	\$120	\$115	\$129	\$144	\$147	(\$77)	(\$77)	(\$87)	(\$109)	(\$72)
4	State Income Tax Rate	AK Stat.	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%
5	State Tax Effect	Ln. 3 * Ln. 4	\$11	\$11	\$12	\$14	\$14	(\$7)	(\$7)	(\$8)	(\$10)	(\$7)
6	State ADIT Balance	Ln. 5 + Prior Ln. 6	\$5	\$16	\$28	\$42	\$56	\$48	\$41	\$33	\$23	\$16
7	Regulatory Depreciation Incl. Amortization of Debt AFUDC	Ln. 1	\$530	\$483	\$416	\$352	\$309	\$299	\$248	\$205	\$173	\$132
8	Depreciation of TEFRA Adjustment	Exhibit 27, Ln. 6	\$1	\$1	\$1	\$1	\$0	\$0	\$0	\$0	\$0	\$0
9	Regulatory Depreciation after TEFRA Adjustment	Ln. 7 - Ln. 8	\$529	\$482	\$415	\$352	\$309	\$298	\$247	\$204	\$172	\$132
10	Federal Tax Depreciation	Exhibit 26, Schedule 2	\$470	\$401	\$339	\$286	\$241	\$200	\$149	\$97	\$44	\$42
11	Tax Effect of State Timing Differences	Ln. 5	\$11	\$11	\$12	\$14	\$14	(\$7)	(\$7)	(\$8)	(\$10)	(\$7)
12	Total Federal Tax Deductions	Ln. 10 - Ln. 11	\$458	\$390	\$327	\$272	\$228	\$207	\$156	\$105	\$54	\$49
13	Federal Tax Timing Differences	Ln. 12 - Ln. 9	(\$71)	(\$92)	(\$88)	(\$80)	(\$81)	(\$92)	(\$91)	(\$99)	(\$118)	(\$83)
14	Federal Income Tax Rate	IRC	39.95%	34.00%	34.00%	34.00%	34.00%	34.00%	35.00%	35.00%	35.00%	35.00%
15	Federal Tax Effect	Ln. 13 * Ln. 14	(\$28)	(\$31)	(\$30)	(\$27)	(\$28)	(\$31)	(\$32)	(\$35)	(\$41)	(\$29)
16	FASB 96/109 Adjustment	Cum. Ln 13 * Change in Ln 14	\$62	\$57	\$0	\$0	\$0	\$0	(\$5)	\$0	\$0	\$0
17	Amortization Basis for FASB 96/109 Adjustment	Lns(Prior 17 + 16 - Prior 18)	\$62	\$108	\$88	\$71	\$58	\$47	\$32	\$26	\$20	\$16
18	Amortization of FASB 96/109 Adjustment	Ln. 17 * Exhibit 24 Ln. 8	\$10	\$20	\$17	\$14	\$11	\$10	\$7	\$5	\$4	\$3
19	Federal ADIT Balance	Prior Ln.19 + Ln.15 - Ln.18	\$447	\$396	\$349	\$308	\$270	\$229	\$191	\$151	\$105	\$73
20	Total State And Federal ADIT Balances	Ln. 6 + Ln. 19	\$453	\$412	\$377	\$350	\$326	\$278	\$232	\$184	\$128	\$89

Appropriate Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	Starting Balances	1977	1978	1979	1980	1981	1982
1	Gross Carrier Property - BOY 1/	Prior Ln. 10	\$7,741	\$9,665	\$9,843	\$10,011	\$10,101	\$10,226	\$10,288
2	Gross Additions, New Construction Exp.	Exhibit 8, Ln. 3		\$1,422	\$98	\$100	\$106	\$49	\$65
3	Less Additions to Capitalized Interest	Exh. 8, [Ln. 10 - Prior Ln. 10]		\$1,216	\$0	\$0	\$0	(\$0)	\$0
4	Gross Property Additions, Net IDC	Ln. 2 - Ln. 3		\$206	\$98	\$100	\$106	\$50	\$65
5	Acquisitions of Carrier Property in Service	Exhibit 8, Ln. 4		\$0	\$0	\$0	\$170	\$0	\$0
6	Retirements of CPIS	Exhibit 8, Ln. 5		(\$29)	(\$7)	(\$12)	(\$165)	(\$2)	(\$12)
7	Adjustments to CPIS	Exhibit 8, Ln. 6		(\$0)	\$65	(\$4)	\$1	(\$1)	(\$13)
8	Equity AFUDC Additions	Exhibit 21, col. 13	\$1,491	\$1	\$7	\$4	\$8	\$10	\$11
9	Debt AFUDC Additions	Exhibit 21, col. 22	\$433	\$1	\$4	\$2	\$4	\$5	\$5
10	Gross Carrier Property - EOY	Lns (1+4+5+6+7+8+9)	\$9,665	\$9,843	\$10,011	\$10,101	\$10,226	\$10,288	\$10,344
11	Accumulated Depreciation	Exhibit 22, Ln. 6		\$108	\$602	\$1,197	\$1,838	\$2,505	\$3,173
12	Accumulated Equity AFUDC Amortization	Exhibit 25, Ln. 7		\$21	\$114	\$226	\$352	\$473	\$598
13	Accumulated Debt AFUDC Amortization	Exhibit 25, Ln. 13		\$6	\$33	\$66	\$103	\$139	\$176
14	CWIP Balance - EOY	Exhibit 8, Ln. 8		\$42	\$24	\$28	\$29	\$29	\$33
15	Net Carrier Property	Lns (10 -11-12-13-14)	\$9,665	\$9,666	\$9,238	\$8,584	\$7,904	\$7,142	\$6,364
16	Working Capital	Exhibit 9, col (b)		\$57	\$29	\$36	\$34	\$39	\$39
17	ADIT	Exhibit 28, Ln. 20		\$191	\$362	\$438	\$448	\$455	\$464
18	Rate Base - Year-end	Lns (15+16-17)	\$9,665	\$9,533	\$8,905	\$8,183	\$7,490	\$6,726	\$5,939
19	Average Rate Base	(Ln.18+Prior Ln.18)/2		\$9,599	\$9,219	\$8,544	\$7,836	\$7,108	\$6,333

1/ Starting Balance is from Exhibit 8, Line 3

Appropriate Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	1983	1984	1985	1986	1987	1988	1989
1	Gross Carrier Property - BOY 1/	Prior Ln. 10	\$10,344	\$10,396	\$10,423	\$10,436	\$10,455	\$10,472	\$10,476
2	Gross Additions, New Construction Exp.	Exhibit 8, Ln. 3	\$70	\$38	\$26	\$21	\$32	\$17	\$48
3	Less Additions to Capitalized Interest	Exh. 8, [Ln. 10 - Prior Ln. 10]	\$0	(\$1)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)
4	Gross Property Additions, Net IDC	Ln. 2 - Ln. 3	\$70	\$39	\$26	\$21	\$32	\$17	\$48
5	Acquisitions of Carrier Property in Service	Exhibit 8, Ln. 4	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Retirements of CPIS	Exhibit 8, Ln. 5	(\$24)	(\$13)	(\$14)	(\$3)	(\$16)	(\$13)	(\$5)
7	Adjustments to CPIS	Exhibit 8, Ln. 6	(\$4)	(\$4)	\$0	\$0	\$0	\$0	(\$0)
8	Equity AFUDC Additions	Exhibit 21, col. 13	\$7	\$4	\$1	\$0	\$1	\$0	\$1
9	Debt AFUDC Additions	Exhibit 21, col. 22	\$3	\$2	\$0	\$0	\$0	\$0	\$0
10	Gross Carrier Property - EOY	Lns (1+4+5+6+7+8+9)	\$10,396	\$10,423	\$10,436	\$10,455	\$10,472	\$10,476	\$10,520
11	Accumulated Depreciation	Exhibit 22, Ln. 6	\$3,811	\$4,441	\$4,970	\$5,482	\$5,969	\$6,415	\$6,806
12	Accumulated Equity AFUDC Amortization	Exhibit 25, Ln. 7	\$717	\$832	\$929	\$1,021	\$1,109	\$1,190	\$1,258
13	Accumulated Debt AFUDC Amortization	Exhibit 25, Ln. 13	\$212	\$246	\$275	\$303	\$329	\$353	\$374
14	CWIP Balance - EOY	Exhibit 8, Ln. 8	\$15	\$4	\$1	\$2	\$2	\$9	\$20
15	Net Carrier Property	Lns (10 -11-12-13-14)	\$5,641	\$4,899	\$4,260	\$3,648	\$3,063	\$2,509	\$2,062
16	Working Capital	Exhibit 9, col (b)	\$29	\$33	\$34	\$29	\$33	\$36	\$36
17	ADIT	Exhibit 28, Ln. 20	\$465	\$455	\$475	\$480	\$453	\$412	\$377
18	Rate Base - Year-end	Lns (15+16-17)	\$5,205	\$4,477	\$3,819	\$3,196	\$2,643	\$2,133	\$1,721
19	Average Rate Base	(Ln.18+Prior Ln.18)/2	\$5,572	\$4,841	\$4,148	\$3,507	\$2,920	\$2,388	\$1,927

Appropriate Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	1990	1991	1992	1993	1994	1995	1996
1	Gross Carrier Property - BOY 1/	Prior Ln. 10	\$10,520	\$10,674	\$10,772	\$10,834	\$10,864	\$10,908	\$10,964
2	Gross Additions, New Construction Exp.	Exhibit 8, Ln. 3	\$156	\$141	\$71	\$36	\$51	\$56	\$52
3	Less Additions to Capitalized Interest	Exh. 8, [Ln. 10 - Prior Ln. 10]	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$9)
4	Gross Property Additions, Net IDC	Ln. 2 - Ln. 3	\$156	\$141	\$71	\$36	\$51	\$56	\$61
5	Acquisitions of Carrier Property in Service	Exhibit 8, Ln. 4	\$0	\$0	\$0	\$0	\$0	\$0	\$81
6	Retirements of CPIS	Exhibit 8, Ln. 5	(\$4)	(\$53)	(\$16)	(\$11)	(\$10)	(\$3)	(\$116)
7	Adjustments to CPIS	Exhibit 8, Ln. 6	\$0	(\$0)	\$0	(\$0)	\$0	\$0	\$0
8	Equity AFUDC Additions	Exhibit 21, col. 13	\$2	\$6	\$4	\$3	\$2	\$2	\$2
9	Debt AFUDC Additions	Exhibit 21, col. 22	\$1	\$4	\$3	\$2	\$1	\$1	\$1
10	Gross Carrier Property - EOY	Lns (1+4+5+6+7+8+9)	\$10,674	\$10,772	\$10,834	\$10,864	\$10,908	\$10,964	\$10,993
11	Accumulated Depreciation	Exhibit 22, Ln. 6	\$7,138	\$7,375	\$7,646	\$7,872	\$8,068	\$8,220	\$8,252
12	Accumulated Equity AFUDC Amortization	Exhibit 25, Ln. 7	\$1,314	\$1,358	\$1,399	\$1,432	\$1,459	\$1,481	\$1,496
13	Accumulated Debt AFUDC Amortization	Exhibit 25, Ln. 13	\$391	\$404	\$417	\$428	\$437	\$444	\$449
14	CWIP Balance - EOY	Exhibit 8, Ln. 8	\$94	\$32	\$34	\$24	\$31	\$51	\$74
15	Net Carrier Property	Lns (10 -11-12-13-14)	\$1,738	\$1,602	\$1,339	\$1,107	\$923	\$767	\$722
16	Working Capital	Exhibit 9, col (b)	\$39	\$59	\$54	\$44	\$43	\$34	\$36
17	ADIT	Exhibit 28, Ln. 20	\$350	\$326	\$278	\$232	\$184	\$128	\$89
18	Rate Base - Year-end	Lns (15+16-17)	\$1,427	\$1,336	\$1,115	\$919	\$783	\$674	\$669
19	Average Rate Base	(Ln.18+Prior Ln.18)/2	\$1,574	\$1,381	\$1,225	\$1,017	\$851	\$728	\$671

Parties' Positions on Operating Expenses, 1977-1996
(Excluding Depreciation and DRR)
(millions \$)

	(a)	(b)	(c)
Date	Carriers and Williams	Tesoro	Difference
	Exhibit 143-RGV-C, TAPS-RGV WP3, Sch. 13; Exhibit 189-BEW-T, BEW_R_RGV WP1 - DR 22RE, Sch. 13	225-JFB-T, 30-BWF-E, 31-BWF-E	a-b
1977	242.373	223.974	18.399
1978	450.207	449.768	0.439
1979	395.732	384.043	11.689
1980	455.681	453.548	2.133
1981	465.612	462.477	3.135
1982	467.774	461.445	6.329
1983	455.867	442.947	12.920
1984	440.939	416.275	24.664
1985	462.037	450.009	12.028
1986	438.168	445.722	-7.554
1987	411.118	407.370	3.748
1988	448.977	447.893	1.084
1989	582.207	581.103	1.104
1990	710.403	705.430	4.973
1991	658.447	656.963	1.484
1992	716.605	684.210	32.395
1993	752.560	742.893	9.667
1994	889.183	885.356	3.827
1995	667.652	663.874	3.778
1996	601.107	598.140	2.967

Cumulative Sum \$149.209

Appropriate Return on Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983
1	Weighted Rate of Return	Exhibit 2, col g	11.74%	12.19%	12.63%	13.67%	15.15%	14.98%	13.31%
2	Average Rate Base	Exhibit 29, Ln. 19	\$9,599	\$9,219	\$8,544	\$7,836	\$7,108	\$6,333	\$5,572
3	Total Return on Rate Base	Ln.1 * Ln.2	\$563	\$1,124	\$1,079	\$1,071	\$1,077	\$949	\$742
4	Debt Capital Structure	Exhibit 11, col d	49.50%	49.50%	49.50%	49.50%	49.50%	49.50%	49.50%
5	Cost of Debt	Exh. 15 Sch. 3, col l	8.86%	8.88%	8.90%	8.88%	9.01%	9.03%	9.08%
6	Debt Weighted Rate of Return	Ln.4 * Ln.5	4.39%	4.40%	4.41%	4.45%	4.46%	4.47%	4.49%
7	Interest Expense	Ln.2 * Ln.6	\$210	\$405	\$376	\$348	\$317	\$283	\$250
8	Equity Weighted Rate of Return	Ln.1 - Ln.6	7.35%	7.79%	8.22%	9.22%	10.69%	10.51%	8.82%
9	Return on Equity	Ln.2 * Ln.8	\$353	\$719	\$703	\$723	\$760	\$666	\$491

Appropriate Return on Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	1984	1985	1986	1987	1988	1989	1990
1	Weighted Rate of Return	Exhibit 2, col g	13.94%	13.29%	12.64%	12.63%	12.84%	12.74%	12.88%
2	Average Rate Base	Exhibit 29, Ln. 19	\$4,841	\$4,148	\$3,507	\$2,920	\$2,388	\$1,927	\$1,574
3	Total Return on Rate Base	Ln.1 * Ln.2	\$675	\$551	\$443	\$369	\$307	\$246	\$203
4	Debt Capital Structure	Exhibit 11, col d	49.50%	49.50%	49.50%	49.50%	49.50%	49.50%	49.50%
5	Cost of Debt	Exh. 15 Sch. 3, col l	9.13%	9.16%	9.17%	9.19%	9.20%	9.23%	9.35%
6	Debt Weighted Rate of Return	Ln.4 * Ln.5	4.52%	4.53%	4.54%	4.55%	4.55%	4.57%	4.63%
7	Interest Expense	Ln.2 * Ln.6	\$219	\$188	\$159	\$133	\$109	\$88	\$73
8	Equity Weighted Rate of Return	Ln.1 - Ln.6	9.42%	8.76%	8.10%	8.08%	8.29%	8.17%	8.25%
9	Return on Equity	Ln.2 * Ln.8	\$456	\$363	\$284	\$236	\$198	\$157	\$130

Appropriate Return on Rate Base, 1977-1996
(millions \$)

Line No.	Description	Source	1991	1992	1993	1994	1995	1996
1	Weighted Rate of Return	Exhibit 2, col g	12.75%	12.52%	11.68%	12.07%	12.08%	11.78%
2	Average Rate Base	Exhibit 29, Ln. 19	\$1,381	\$1,225	\$1,017	\$851	\$728	\$671
3	Total Return on Rate Base	Ln.1 * Ln.2	\$176	\$153	\$119	\$103	\$88	\$79
4	Debt Capital Structure	Exhibit 11, col d	49.50%	49.50%	49.50%	49.50%	49.50%	49.50%
5	Cost of Debt	Exh. 15 Sch. 3, col l	9.37%	9.37%	9.30%	9.41%	9.38%	9.24%
6	Debt Weighted Rate of Return	Ln.4 * Ln.5	4.64%	4.64%	4.60%	4.66%	4.64%	4.57%
7	Interest Expense	Ln.2 * Ln.6	\$64	\$57	\$47	\$40	\$34	\$31
8	Equity Weighted Rate of Return	Ln.1 - Ln.6	8.11%	7.88%	7.08%	7.41%	7.44%	7.21%
9	Return on Equity	Ln.2 * Ln.8	\$112	\$97	\$72	\$63	\$54	\$48

Appropriate Income Tax Allowance, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983	1984
1	Total Return on Rate Base	Exhibit 31 Ln. 3	\$563	\$1,124	\$1,079	\$1,071	\$1,077	\$949	\$742	\$675
2	Interest Expense	Exhibit 31 Ln. 7	\$210	\$405	\$376	\$348	\$317	\$283	\$250	\$219
3	Equity Portion of Return on Rate Base	Ln. 1 - Ln. 2	\$353	\$719	\$703	\$723	\$760	\$666	\$491	\$456
4	Permanent Differences - Federal Income Tax:									
5	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$21	\$93	\$112	\$126	\$122	\$124	\$119	\$115
6	Amortization of TEFRA Adjustment	Exhibit 27 Ln. 6	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.55	\$0.90
7	Amortization of Deferred Tax Adjustments	Exhibit 28 Ln. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Subtotal for Federal Income Tax Allowance	Lns (3 + 4 + 5 - 6)	\$374	\$812	\$814	\$849	\$881	\$790	\$611	\$572
9	Federal Income Tax Rate	RGV-143-C, Sch. 8	48.00%	48.00%	46.00%	46.00%	46.00%	46.00%	46.00%	46.00%
10	Net-to-Tax Multiplier - Federal Income Tax	Ln. 8 / (1 - Ln. 8)	92.31%	92.31%	85.19%	85.19%	85.19%	85.19%	85.19%	85.19%
11	Federal Income Tax Allowance	Ln. 7 * Ln. 9 - Ln. 6	\$345	\$749	\$694	\$723	\$751	\$673	\$521	\$488
12	Permanent Differences - State Income Tax:									
13	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$21	\$93	\$112	\$126	\$122	\$124	\$119	\$115
14	Subtotal for State Income Tax Allowance	Lns (3 + 10 + 11)	\$718	\$1,561	\$1,508	\$1,572	\$1,632	\$1,463	\$1,131	\$1,059
15	Alaska State Income Tax Rate	RGV-143-C, Sch. 8	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%
16	Net-to-Tax Multiplier - State Income Tax	Ln 13 / (1 - Ln. 13)	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%
17	State Income Tax Allowance	Ln. 12 * Ln. 14	\$75	\$162	\$156	\$163	\$169	\$152	\$117	\$110
18	Total Income Tax Allowance	Ln. 10 + Ln. 15	\$419	\$911	\$850	\$886	\$920	\$825	\$638	\$597

Appropriate Income Tax Allowance, 1977-1996
(millions \$)

Line No.	Description	Source	1985	1986	1987	1988	1989	1990	1991	1992
1	Total Return on Rate Base	Exhibit 31 Ln. 3	\$551	\$443	\$369	\$307	\$246	\$203	\$176	\$153
2	Interest Expense	Exhibit 31 Ln. 7	\$188	\$159	\$133	\$109	\$88	\$73	\$64	\$57
3	Equity Portion of Return on Rate Base	Ln. 1 - Ln. 2	\$363	\$284	\$236	\$198	\$157	\$130	\$112	\$97
4	Permanent Differences - Federal Income Tax:									
5	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$97	\$91	\$89	\$80	\$68	\$56	\$44	\$41
6	Amortization of TEFRA Adjustment	Exhibit 27 Ln. 6	\$0.95	\$0.90	\$0.87	\$0.79	\$0.67	\$0.54	\$0.42	\$0.38
7	Amortization of Deferred Tax Adjustments	Exhibit 28 Ln. 18	\$0	\$0	\$10	\$20	\$17	\$14	\$11	\$10
8	Subtotal for Federal Income Tax Allowance	Lns (3 + 4 + 5 - 6)	\$461	\$376	\$315	\$259	\$210	\$172	\$146	\$129
9	Federal Income Tax Rate	RGV-143-C, Sch. 8	46.00%	46.00%	39.95%	34.00%	34.00%	34.00%	34.00%	34.00%
10	Net-to-Tax Multiplier - Federal Income Tax	Ln. 8 / (1 - Ln. 8)	85.19%	85.19%	66.53%	51.52%	51.52%	51.52%	51.52%	51.52%
11	Federal Income Tax Allowance	Ln. 7 * Ln. 9 - Ln. 6	\$393	\$321	\$199	\$114	\$91	\$75	\$65	\$57
12	Permanent Differences - State Income Tax:									
13	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$97	\$91	\$89	\$80	\$68	\$56	\$44	\$41
14	Subtotal for State Income Tax Allowance	Lns (3 + 10 + 11)	\$853	\$696	\$524	\$392	\$317	\$261	\$221	\$194
15	Alaska State Income Tax Rate	RGV-143-C, Sch. 8	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%	9.40%
16	Net-to-Tax Multiplier - State Income Tax	Ln 13 / (1 - Ln. 13)	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%	10.38%
17	State Income Tax Allowance	Ln. 12 * Ln. 14	\$88	\$72	\$54	\$41	\$33	\$27	\$23	\$20
18	Total Income Tax Allowance	Ln. 10 + Ln. 15	\$481	\$393	\$253	\$154	\$124	\$102	\$87	\$77

Appropriate Income Tax Allowance, 1977-1996
(millions \$)

Line No.	Description	Source	1993	1994	1995	1996
1	Total Return on Rate Base	Exhibit 31 Ln. 3	\$119	\$103	\$88	\$79
2	Interest Expense	Exhibit 31 Ln. 7	\$47	\$40	\$34	\$31
3	Equity Portion of Return on Rate Base	Ln. 1 - Ln. 2	\$72	\$63	\$54	\$48
4	Permanent Differences - Federal Income Tax:					
5	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$33	\$27	\$22	\$15
6	Amortization of TEFRA Adjustment	Exhibit 27 Ln. 6	\$0.30	\$0.24	\$0.19	\$0.13
7	Amortization of Deferred Tax Adjustments	Exhibit 28 Ln. 18	\$7	\$5	\$4	\$3
8	Subtotal for Federal Income Tax Allowance	Lns (3 + 4 + 5 - 6)	\$99	\$85	\$72	\$61
9	Federal Income Tax Rate	RGV-143-C, Sch. 8	35.00%	35.00%	35.00%	35.00%
10	Net-to-Tax Multiplier - Federal Income Tax	Ln. 8 / (1 - Ln. 8)	53.85%	53.85%	53.85%	53.85%
	Federal Income Tax Allowance	Ln. 7 * Ln. 9 - Ln. 6	\$47	\$40	\$35	\$30
11	Permanent Differences - State Income Tax:					
12	Amortization of Equity AFUDC	Exhibit 25 Ln. 4	\$33	\$27	\$22	\$15
13	Subtotal for State Income Tax Allowance	Lns (3 + 10 + 11)	\$152	\$130	\$111	\$93
14	Alaska State Income Tax Rate	RGV-143-C, Sch. 8	9.40%	9.40%	9.40%	9.40%
15	Net-to-Tax Multiplier - State Income Tax	Ln 13 / (1 - Ln. 13)	10.38%	10.38%	10.38%	10.38%
	State Income Tax Allowance	Ln. 12 * Ln. 14	\$16	\$14	\$12	\$10
16	Total Income Tax Allowance	Ln. 10 + Ln. 15	\$62	\$54	\$46	\$40

Appropriate TAPS Revenue Requirement, 1977-1996
(millions \$)

Line No.	Description	Source	1977	1978	1979	1980	1981	1982	1983
1	Operating Expense Excluding Depreciation and DR&R	Exhibit 30, col a	\$242.373	\$450.207	\$395.732	\$455.681	\$465.612	\$467.774	\$455.867
2	Depreciation Expense	Exhibit 22 Ln. 3	\$108.493	\$500.844	\$605.099	\$692.966	\$668.048	\$681.717	\$660.483
3	Amortization of AFUDC	Exhibit 25, Ln 14	\$27	\$121	\$145	\$163	\$158	\$161	\$155
4	Return on Rate Base	Exhibit 31 Ln 3	\$563	\$1,124	\$1,079	\$1,071	\$1,077	\$949	\$742
5	Income Tax Allowance	Exhibit 32 Ln. 16	\$419	\$911	\$850	\$886	\$920	\$825	\$638
6	Total Cost of Service	Sum Lns 1 to 5	\$1,360	\$3,107	\$3,075	\$3,269	\$3,288	\$3,084	\$2,651

Appropriate TAPS Revenue Requirement, 1977-1996
(millions \$)

Line No.	Description	Source	1984	1985	1986	1987	1988	1989	1990
1	Operating Expense Excluding Depreciation and DR&R	Exhibit 30, col a	\$440,939	\$462,037	\$438,168	\$411,118	\$448,977	\$582,207	\$710,403
2	Depreciation Expense	Exhibit 22 Ln. 3	\$641,754	\$542,938	\$514,506	\$503,605	\$458,916	\$395,419	\$335,514
3	Amortization of AFUDC	Exhibit 25, Ln 14	\$150	\$126	\$119	\$115	\$105	\$89	\$73
4	Return on Rate Base	Exhibit 31 Ln 3	\$675	\$551	\$443	\$369	\$307	\$246	\$203
5	Income Tax Allowance	Exhibit 32 Ln. 16	\$597	\$481	\$393	\$253	\$154	\$124	\$102
6	Total Cost of Service	Sum Lns 1 to 5	\$2,505	\$2,164	\$1,908	\$1,652	\$1,473	\$1,436	\$1,423

Appropriate TAPS Revenue Requirement, 1977-1996
(millions \$)

Line No.	Description	Source	1991	1992	1993	1994	1995	1996
1	Operating Expense Excluding Depreciation and DR&R	Exhibit 30, col a	\$658.447	\$716.605	\$752.560	\$889.183	\$667.652	\$601.107
2	Depreciation Expense	Exhibit 22 Ln. 3	\$295.711	\$285.871	\$237.084	\$195.984	\$165.315	\$126.791
3	Amortization of AFUDC	Exhibit 25, Ln 14	\$58	\$54	\$44	\$36	\$29	\$20
4	Return on Rate Base	Exhibit 31 Ln 3	\$176	\$153	\$119	\$103	\$88	\$79
5	Income Tax Allowance	Exhibit 32 Ln. 16	\$87	\$77	\$62	\$54	\$46	\$40
6	Total Cost of Service	Sum Lns 1 to 5	\$1,275	\$1,287	\$1,215	\$1,277	\$996	\$867

Carriers' Position on Capital Structure, 1997-1999

Line No.	Year	Hess		Arco		Exxon		Mobil		ExxonMobil	
		(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage
1	1997	60.39%	1.50%	65.34%	22.17%	84.81%	20.31%	80.16%	3.27%	0.00%	0.00%
2	1998	49.95%	1.50%	61.56%	22.17%	89.70%	20.31%	79.52%	3.27%	0.00%	0.00%
3	1999	56.48%	1.50%	60.36%	22.17%	N/A	N/A	87.81%	3.27%	87.81%	20.31%

Carriers' Position on Capital Structure, 1997-1999

Line No.	Year	Phillips		BP		Unocal		Composite
		(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	(a) Common Equity	(b) Ownership Percentage	
1	1997	56.82%	1.44%	81.39%	49.93%	46.22%	1.39%	77.34%
2	1998	46.15%	1.44%	78.43%	49.93%	41.69%	1.39%	75.62%
3	1999	47.03%	1.44%	78.45%	49.93%	39.42%	1.39%	75.33%

Appropriate AFUDC Additions, 1997-2000
(millions \$)

Line No.	Date	Construction Work in Progress			In-service Ratio	Compounding Additions Equity AFUDC	Equity %	Equity Addn's	Equity Transfers	Equity Base	ROE	Incremental Equity AFUDC	Transfers Equity AFUDC
		Property Additions	Transfers to Property	Property Balance									
1	2	3	4	5	6	7	8	9	10	11	12	13	
341	Jan-97	\$2,899,101		\$76,647,849	0.3%	\$0	\$1,464,046	\$0,107,381	\$37,350,498	13.46%	\$0,418,848	\$0,015,289	
342	Feb-97	\$3,829,269	\$0,340,958	\$80,136,159	0.4%	\$0	\$0	\$1,933,781	\$0,172,184	\$38,707,164	13.46%	\$0,434,165	\$0,025,124
343	Mar-97	\$5,577,921	\$0,136,936	\$85,577,144	0.2%	\$0	\$0	\$2,816,850	\$0,069,153	\$40,468,760	13.46%	\$0,453,925	\$0,010,127
344	Apr-97	\$4,941,123	\$0,207,434	\$90,310,833	0.2%	\$0	\$0	\$2,485,267	\$0,104,754	\$43,216,458	13.46%	\$0,484,745	\$0,015,544
345	May-97	\$7,116,876	\$0,288,298	\$97,139,411	0.3%	\$0	\$0	\$3,594,022	\$0,145,591	\$45,606,971	13.46%	\$0,511,558	\$0,021,460
346	Jun-97	\$7,180,996	\$0,282,613	\$104,037,793	0.3%	\$0	\$0	\$3,626,403	\$0,142,720	\$49,055,402	13.46%	\$0,550,238	\$0,020,974
347	Jul-97	\$7,792,312	\$0,146,199	\$111,683,906	0.1%	\$0	\$0	\$3,935,118	\$0,073,830	\$52,539,086	13.46%	\$0,589,913	\$0,010,813
348	Aug-97	\$4,065,979	\$0,000,000	\$115,779,885	0.0%	\$0	\$0	\$2,068,469	\$0,000,000	\$56,400,373	13.46%	\$0,632,624	\$0,000,000
349	Sep-97	\$6,536,663	\$2,283,662	\$120,032,888	1.9%	\$0	\$0	\$3,301,015	\$1,153,249	\$58,468,842	13.46%	\$0,655,826	\$0,177,040
350	Oct-97	\$4,304,639	\$0,283,296	\$124,054,230	0.2%	\$0	\$0	\$2,173,843	\$0,143,064	\$60,616,608	13.46%	\$0,679,916	\$0,022,698
351	Nov-97	\$4,919,018	\$1,579,983	\$127,393,254	1.2%	\$0	\$0	\$2,484,104	\$0,797,897	\$62,647,366	13.46%	\$0,702,695	\$0,130,083
352	Dec-97	\$2,834,491	\$100,596,793	\$29,630,952	77.2%	\$0	\$0	\$1,431,418	\$50,801,381	\$64,333,594	13.46%	\$0,721,608	\$8,644,816
353	Jan-98	\$1,173,523	\$0,000,000	\$30,804,475	0.0%	\$0	\$0	\$0,592,629	\$0,000,000	\$14,963,631	13.01%	\$0,162,231	\$0,000,000
354	Feb-98	\$1,078,999	\$0,000,000	\$31,883,474	0.0%	\$0	\$0	\$0,544,894	\$0,000,000	\$15,562,620	13.01%	\$0,168,656	\$0,000,000
355	Mar-98	\$2,028,235	\$0,000,000	\$33,911,709	0.0%	\$0	\$0	\$1,024,259	\$0,000,000	\$16,101,154	13.01%	\$0,174,563	\$0,000,000
356	Apr-98	\$0,439,219	(\$1,042,638)	\$35,955,666	-3.0%	\$0	\$0	\$0,221,806	(\$0,526,632)	\$17,125,413	13.01%	\$0,185,668	(\$0,114,532)
357	May-98	\$0,323,717	\$0,039,848	\$36,677,435	0.1%	\$0	\$0	\$0,163,477	\$0,020,123	\$17,873,751	13.01%	\$0,193,781	\$0,004,545
358	Jun-98	\$2,864,602	\$0,320,232	\$38,221,805	0.8%	\$0	\$0	\$1,446,624	\$0,161,717	\$18,017,104	13.01%	\$0,195,335	\$0,035,418
359	Jul-98	\$4,354,180	\$0,000,000	\$42,575,985	0.0%	\$0	\$0	\$2,198,861	\$0,000,000	\$19,302,011	13.01%	\$0,209,268	\$0,000,000
360	Aug-98	\$1,127,393	\$0,000,000	\$43,703,378	0.0%	\$0	\$0	\$0,569,933	\$0,000,000	\$21,500,872	13.01%	\$0,233,105	\$0,000,000
361	Sep-98	\$3,593,634	\$0,000,000	\$47,297,012	0.0%	\$0	\$0	\$1,814,785	\$0,000,000	\$22,070,206	13.01%	\$0,239,278	\$0,000,000
362	Oct-98	\$2,710,088	\$1,602,236	\$48,404,863	3.2%	\$0	\$0	\$1,368,594	\$0,809,129	\$23,884,991	13.01%	\$0,258,953	\$0,163,546
363	Nov-98	\$2,711,389	\$0,896,299	\$50,219,953	1.8%	\$0	\$0	\$1,369,251	\$0,452,631	\$24,444,456	13.01%	\$0,265,019	\$0,091,176
364	Dec-98	\$10,150,085	\$21,471,030	\$38,898,988	35.6%	\$0	\$0	\$5,125,783	\$10,842,870	\$25,361,076	13.01%	\$0,274,956	\$1,911,179
365	Jan-99	\$0,808,833	\$0,000,000	\$39,707,821	0.0%	\$0	\$0	\$0,408,461	\$0,000,000	\$19,643,989	14.36%	\$0,235,073	\$0,000,000
366	Feb-99	\$2,137,482	\$0,051,179	\$41,794,124	0.1%	\$0	\$0	\$1,079,428	\$0,025,946	\$20,052,450	14.36%	\$0,239,961	\$0,004,859
367	Mar-99	\$2,014,968	\$0,509,175	\$43,299,917	1.2%	\$0	\$0	\$1,017,559	\$0,257,133	\$21,106,033	14.36%	\$0,252,569	\$0,048,903
368	Apr-99	\$1,338,505	\$0,000,000	\$44,638,422	0.0%	\$0	\$0	\$0,675,945	\$0,000,000	\$21,868,458	14.36%	\$0,261,689	\$0,000,000
369	May-99	\$2,002,943	\$0,000,000	\$46,641,365	0.0%	\$0	\$0	\$1,011,486	\$0,000,000	\$22,542,403	14.36%	\$0,269,757	\$0,000,000
370	Jun-99	\$4,354,465	\$0,000,000	\$50,995,830	0.0%	\$0	\$0	\$2,199,005	\$0,000,000	\$23,553,889	14.36%	\$0,281,862	\$0,000,000
371	Jul-99	\$4,427,730	\$0,029,618	\$55,393,942	0.1%	\$0	\$0	\$2,236,004	\$0,014,957	\$25,752,894	14.36%	\$0,308,176	\$0,002,792
372	Aug-99	\$2,790,398	\$2,006,215	\$56,178,125	3.4%	\$0	\$0	\$1,409,151	\$1,013,139	\$27,973,941	14.36%	\$0,334,755	\$0,190,674
373	Sep-99	\$4,508,695	\$4,452,553	\$56,232,508	7.3%	\$0	\$0	\$2,276,002	\$2,248,539	\$28,368,953	14.36%	\$0,339,494	\$0,416,312
374	Oct-99	\$8,376,746	\$0,000,000	\$64,609,252	0.0%	\$0	\$0	\$4,230,257	\$0,000,000	\$28,397,416	14.36%	\$0,339,622	\$0,000,000
375	Nov-99	\$5,693,005	\$5,152,861	\$65,149,396	7.3%	\$0	\$0	\$2,874,968	\$2,602,195	\$32,627,672	14.36%	\$0,390,444	\$0,435,159
376	Dec-99	\$18,980,666	\$40,738,810	\$43,391,252	48.4%	\$0	\$0	\$9,585,236	\$20,573,099	\$32,900,445	14.36%	\$0,393,709	\$2,853,272
377	Jan-00	\$17,736,155	\$0,000,000	\$45,127,407	0.0%	\$0	\$0	\$0,876,758	\$0,000,000	\$21,912,582	14.75%	\$0,269,942	\$0,000,000
378	Feb-00	\$1,968,606	\$0,000,000	\$47,096,013	0.0%	\$0	\$0	\$0,994,146	\$0,000,000	\$22,789,341	14.75%	\$0,280,119	\$0,000,000