

**TABLE 1**  
**Transmission Revenue Requirement**  
**(\$000/yr, except \$000 @ Plant)**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	FCRTS	Generation		Delivery		Southern	Eastern	General
	Total	Integration	Network	Utility	Industry	Intertie	Intertie	Plant
<b>FY97</b>								
1. 1 Gross Plant (\$000).....	4,926,417	115,840	3,057,611	119,898	84,381	662,762	120,426	765,499
1. 2 Lines (\$000).....	2,027,402	32,795	1,696,403	136	14	200,163	97,891	
1. 3 Stations (\$000).....	2,133,516	83,045	1,361,208	119,762	84,367	462,599	22,535	
1. 4 Net Plant (\$000).....	2,946,530	83,368	1,741,906	94,833	66,391	489,471	77,839	392,722
1. 5 System Operations.....	59,159	2,134	40,687	3,782	2,788	9,259	509	
1. 6 System Maintenance.....	90,144	3,433	66,500	4,451	3,260	11,653	847	
1. 7 General Transfer Agreements.....	33,518	0	30,885	2,577	56	0	0	
1. 8 TSD Support; Leases; O&M Services..	8,975	359	8,051	0	560	5	0	
1. 9 Depreciation.....	118,996	2,388	90,603	2,564	1,812	17,408	4,221	
1.10 Interest.....	178,250	5,861	128,047	6,985	4,897	26,719	5,741	
1.11 Planned Net Revenues.....	34,058	1,120	24,465	1,335	936	5,105	1,097	
1.12 Total Cost.....	<b>523,100</b>	<b>15,295</b>	<b>389,238</b>	<b>21,694</b>	<b>14,309</b>	<b>70,149</b>	<b>12,415</b>	
1.13 Net Plant Shares.....	1.000	0.033	0.682	0.037	0.026	0.192	0.030	
<b>FY98</b>								
1.14 Gross Plant (\$000).....	5,089,250	115,840	3,132,911	122,198	86,181	675,362	120,426	836,332
1.15 Lines (\$000).....	2,047,212	32,795	1,715,913	136	14	200,463	97,891	
1.16 Stations (\$000).....	2,205,706	83,045	1,416,998	122,062	86,167	474,899	22,535	
1.17 Net Plant (\$000).....	3,008,419	81,309	1,754,860	95,287	66,911	489,452	74,434	446,166
1.18 System Operations.....	58,791	2,152	40,421	3,755	2,768	9,191	505	
1.19 System Maintenance.....	89,471	3,481	65,963	4,412	3,230	11,545	839	
1.20 General Transfer Agreements.....	34,298	0	31,597	2,643	58	0	0	
1.21 TSD Support; Leases; O&M Services..	9,233	368	8,285	0	575	5	0	
1.22 Depreciation.....	124,137	2,417	94,758	2,672	1,894	18,088	4,308	
1.23 Interest.....	177,149	5,595	127,499	6,940	4,881	26,805	5,429	
1.24 Planned Net Revenues.....	32,811	1,036	23,615	1,285	904	4,965	1,006	
1.25 Total Cost.....	<b>525,890</b>	<b>15,049</b>	<b>392,138</b>	<b>21,707</b>	<b>14,310</b>	<b>70,599</b>	<b>12,087</b>	
1.26 Net Plant Shares.....	1.000	0.032	0.685	0.037	0.026	0.191	0.029	
<b>FY99</b>								
1.27 Gross Plant (\$000).....	5,219,965	115,840	3,213,011	124,498	88,081	681,262	120,426	876,847
1.28 Lines (\$000).....	2,066,978	32,795	1,735,479	136	14	200,663	97,891	
1.29 Stations (\$000).....	2,276,140	83,045	1,477,532	124,362	88,067	480,599	22,535	
1.30 Net Plant (\$000).....	3,054,464	79,250	1,756,640	95,449	67,248	484,325	71,029	500,523
1.31 System Operations.....	60,879	2,204	41,872	3,890	2,868	9,522	523	
1.32 System Maintenance.....	93,223	3,561	68,774	4,602	3,369	12,042	875	
1.33 General Transfer Agreements.....	33,924	0	31,156	2,709	59	0	0	
1.34 TSD Support; Leases; O&M Services..	10,736	378	9,763	0	590	5	0	
1.35 Depreciation.....	129,099	2,447	98,816	2,779	1,977	18,681	4,399	
1.36 Interest.....	175,808	5,364	126,842	6,911	4,878	26,661	5,152	
1.37 Planned Net Revenues.....	33,206	1,013	23,958	1,305	921	5,036	973	
1.38 Total Cost.....	<b>536,875</b>	<b>14,967</b>	<b>401,181</b>	<b>22,196</b>	<b>14,662</b>	<b>71,947</b>	<b>11,922</b>	
1.39 Net Plant Shares.....	1.000	0.031	0.688	0.037	0.026	0.190	0.028	

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	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	FCRTS	Generation		Delivery		Southern	Eastern	General
	Total	Integration	Network	Utility	Industry	Intertie	Intertie	Plant
<b>FY00</b>								
1.40 Gross Plant (\$000).....	5,423,159	115,840	3,295,711	126,698	89,981	687,062	120,426	987,441
1.41 Lines (\$000).....	2,091,377	32,795	1,759,678	136	14	200,863	97,891	
1.42 Stations (\$000).....	2,344,341	83,045	1,536,033	126,562	89,967	486,199	22,535	
1.43 Net Plant (\$000).....	3,091,228	77,191	1,760,452	95,521	67,601	475,662	67,624	547,177
1.44 System Operations.....	62,736	2,258	43,157	4,010	2,965	9,815	539	
1.45 System Maintenance.....	96,486	3,649	71,208	4,766	3,488	12,470	906	
1.46 General Transfer Agreements.....	34,979	0	32,143	2,775	61	0	0	
1.47 TSD Support; Leases; O&M Services..	10,988	387	9,992	0	604	5	0	
1.48 Depreciation.....	133,971	2,474	102,904	2,883	2,057	19,171	4,482	
1.49 Interest.....	174,807	5,160	126,676	6,895	4,889	26,297	4,890	
1.50 Planned Net Revenues.....	33,443	987	24,235	1,319	935	5,031	936	
1.51 Total Cost.....	<b>547,410</b>	<b>14,915</b>	<b>410,315</b>	<b>22,648</b>	<b>14,999</b>	<b>72,789</b>	<b>11,753</b>	
1.52 Net Plant Shares.....	1.000	0.030	0.692	0.038	0.027	0.187	0.027	
<b>FY01</b>								
1.53 Gross Plant (\$000).....	5,631,087	115,840	3,420,711	128,798	91,781	692,562	120,426	1,060,969
1.54 Lines (\$000).....	2,127,505	32,795	1,795,606	136	14	201,063	97,891	
1.55 Stations (\$000).....	2,442,613	83,045	1,625,105	128,662	91,767	491,499	22,535	
1.56 Net Plant (\$000).....	3,137,652	75,132	1,784,748	95,454	67,872	466,696	64,219	583,531
1.57 System Operations.....	64,310	2,319	44,239	4,110	3,030	10,060	552	
1.58 System Maintenance.....	99,756	3,765	73,625	4,927	3,607	12,895	937	
1.59 General Transfer Agreements.....	35,393	0	32,557	2,775	61	0	0	
1.60 TSD Support; Leases; O&M Services..	11,746	396	10,725	0	620	5	0	
1.61 Depreciation.....	138,988	2,495	107,273	2,973	2,129	19,574	4,544	
1.62 Interest.....	181,034	5,139	132,243	7,095	5,055	26,719	4,783	
1.63 Planned Net Revenues.....	29,387	834	21,467	1,152	821	4,337	776	
1.64 Total Cost.....	<b>560,614</b>	<b>14,948</b>	<b>422,129</b>	<b>23,032</b>	<b>15,323</b>	<b>73,590</b>	<b>11,592</b>	
1.65 Net Plant Shares.....	1.000	0.029	0.699	0.037	0.027	0.183	0.025	
1.66 Five Year Cost Totals	2,693,898	75,174	2,015,001	111,277	73,603	359,074	59,769	

**TABLE 2**  
**Transmission Revenue Credits**  
**(\$000)**

	(A)	(B)	(C)	(D)	(E)
	FY97	FY98	FY99	FY00	FY01
2. 1 TransCo PNCA Charges.....	1,083	1,083	1,083	1,083	1,083
2. 2 Use of Facilities (UFT) /1.....	9,024	9,204	9,389	9,576	9,768
2. 3 TGT.....	7,180	9,792	9,792	9,792	9,792
2. 4 BPA's use of Eastern Intertie /2...	474	474	474	474	474
2. 5 Irrigation Pumping Power.....	324	324	324	324	324
2. 6 Operations and Maintenance.....	1,356	1,383	1,411	1,439	1,468
2. 7 AC Rate.....	1,083	1,105	1,127	1,149	1,172
2. 8 NFP Depreciation.....	3,468	3,468	3,468	3,468	3,468
2. 9 CSPE Whlg.....	720	666	462	294	284
2.10 Supplemental Capacity Whlg.....	168	156	106	66	64
2.11 Reactive.....	1,003	1,003	1,003	1,003	1,003
2.12 Remedial Action Scheme (RAS).....	888	888	888	888	888
2.13 Industrial UFT Charges.....	12,645	12,846	13,051	13,258	13,470
2.14 Non-Traditional Revenues.....	7,928	12,528	17,428	21,128	21,528
2.15 Totals.....	<b>47,344</b>	<b>54,920</b>	<b>60,005</b>	<b>63,942</b>	<b>64,786</b>

1/ For utility customers only; includes payments to BPA for transfer services.

2/ BPA GenCo is charged BPA's TGT rate for its use of the Eastern Intertie.

**TABLE 2**  
**Transmission Revenue Credits**  
**(decimals)**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Total	G_I	Network	Delivery		Southern	Eastern
				Utility	Industrial	Intertie	Intertie
2.16 TransCo PNCA Charges.....	1.00000	-	1.00000	-	-	-	-
2.17 Use of Facilities.....	1.00000	-	0.79036	0.10610	0.01206	0.03621	0.05527
2.18 TGT.....	1.00000	-	-	-	-	-	1.00000
2.19 BPA's use of Eastern Intertie	1.00000	-	-	-	-	-	1.00000
2.20 Irrigation Pumping Power.....	1.00000	-	1.00000	-	-	-	-
2.21 Operations and Maintenance...	1.00000	-	0.82039	0.01537	0.07363	0.09062	-
2.22 AC Rate.....	1.00000	-	-	-	-	1.00000	-
2.23 NFP Depreciation.....	1.00000	-	-	-	-	1.00000	-
2.24 CSPE Whlg.....	1.00000	0.03643	0.94975	0.01382	-	-	-
2.25 Supplemental Capacity Whlg...	1.00000	0.03704	0.96296	-	-	-	-
2.26 Reactive.....	1.00000	-	0.80000	0.10000	0.10000	-	-
2.27 RAS.....	1.00000	-	-	-	-	1.00000	-
2.28 Industrial UFT.....	1.00000	-	-	-	1.00000	-	-
2.29 Non-Traditional Revenues.....	1.00000	0.03104	0.69294	0.03733	0.02632	0.18455	0.02781

**TABLE 3**  
**Revenue Credited Transmission Rate Development Costs**  
**(\$000)**

	(A)	(B)	(C)	(D)	(F)	(G)
	Generation Integration/ BPA GenCo	Network	Delivery Utility	Industry	Southern Intertie	Eastern Intertie
<b>FY97</b>						
3. 1 Unadjusted Costs.....	15,295	389,238	21,694	14,309	70,149	12,415
3. 2 Revenue Credits.....	-278	-16,793	-1,384	-13,163	-7,352	-8,374
3. 3 Eastern Intertie Adjustment 1/....	132	2,756	150	105	775	-4,041
3. 4 Industrial UFT Adjustment 2/.....		1,251		-1,251		
3. 5 Utility Del. Rate Underrecovery 3/	6,039		-6,039			
3. 6 Network GTA Costs Reassignment....	30,885	-30,885				
3. 7 Total.....	<b>52,073</b>	<b>345,567</b>	<b>14,421</b>	<b>0</b>	<b>63,572</b>	<b>0</b>
<b>FY98</b>						
3. 8 Unadjusted Costs.....	15,049	392,138	21,707	14,310	70,599	12,087
3. 9 Revenue Credits.....	-419	-20,082	-1,575	-13,489	-8,231	-11,123
3.10 Eastern Intertie Adjustment 1/....	31	660	36	25	184	-964
3.11 Industrial UFT Adjustment 2/.....		846		-846		
3.12 Utility Del. Rate Underrecovery 3/	6,017		-6,017			
3.13 Network GTA Costs Reassignment....	31,597	-31,597				
3.14 Total.....	<b>52,275</b>	<b>341,965</b>	<b>14,151</b>	<b>0</b>	<b>62,552</b>	<b>0</b>
<b>FY99</b>						
3.15 Unadjusted Costs.....	14,967	401,181	22,196	14,662	71,947	11,922
3.16 Revenue Credits.....	-562	-23,406	-1,775	-13,827	-9,167	-11,270
3.17 Eastern Intertie Adjustment 1/....	20	448	24	17	124	-652
3.18 Industrial UFT Adjustment 2/.....	0	852	0	-852	0	0
3.19 Utility Del. Rate Underrecovery 3/	6,368		-6,368			
3.20 Network GTA Costs Reassignment....	31,156	-31,156				
3.21 Total.....	<b>51,949</b>	<b>347,920</b>	<b>14,077</b>	<b>0</b>	<b>62,904</b>	<b>0</b>
<b>FY00</b>						
3.22 Unadjusted Costs.....	14,915	410,315	22,648	14,999	72,789	11,753
3.23 Revenue Credits.....	-669	-25,941	-1,931	-14,135	-9,881	-11,383
3.24 Eastern Intertie Adjustment 1/....	11	256	14	10	69	-370
3.25 Industrial UFT Adjustment 2/.....	0	874	0	-874	0	0
3.26 Utility Del. Rate Underrecovery 3/	6,462		-6,462			
3.27 Network GTA Costs Reassignment....	32,143	-32,143				
3.28 Total.....	<b>52,862</b>	<b>353,361</b>	<b>14,269</b>	<b>0</b>	<b>62,977</b>	<b>0</b>
<b>FY01</b>						
3.29 Unadjusted Costs.....	14,948	422,129	23,032	15,323	73,590	11,592
3.30 Revenue Credits.....	-680	-26,383	-1,967	-14,363	-9,988	-11,405
3.31 Eastern Intertie Adjustment 1/....	6	131	7	5	34	-187
3.32 Industrial UFT Adjustment 2/.....	0	965	0	-965	0	0
3.33 Utility Del. Rate Underrecovery 3/	6,621		-6,621			
3.34 Network GTA Costs Reassignment....	32,557	-32,557				
3.35 Total.....	<b>53,452</b>	<b>364,285</b>	<b>14,451</b>	<b>0</b>	<b>63,636</b>	<b>0</b>
3.36 Average Revenue Credits.....	-522	-22,521	-1,726	-13,795	-8,924	-10,711
3.37 Five Year Cost Totals.....	262,611	1,753,098	71,369	0	315,641	0

- 1/ Eastern Intertie adjustment (costs-revenues) segmented on Table 1 net plant percentages
- 2/ Industrial UFT Adjustment reflect underrecovery from UFT of Industrial Delivery Segment costs
- 3/ The difference between segment average cost and \$9.00/kW-yr applied to sales over low voltage delivery points. See Table 18 for calculations.

**TABLE 4**  
**Network Transmission Firm Loads**

		(A)	(B)	(C)	(D)	(F)	(G)
	Units 1/	FY97	FY98	FY99	FY00	FY01	5-yr Avg
4. 1	Federal Agencies PF Sales.....	aMW	146	146	147	148	147
4. 2	Non-Scheduling Pubs PF Sales.....	aMW	2,688	2,687	2,605	2,636	2,653
4. 3	Scheduling Publics PF Sales 2/.....	aMW	1,756	1,661	1,884	1,968	1,889
4. 4	Load Shaping 3/.....	MW	3,183	3,110	3,172	3,313	3,219
4. 5	IP Sales.....	MW	1,915	1,915	1,915	1,915	1,915
4. 6	NR Sales.....	MW	0	0	0	0	0
4. 7	SP Contract Sales (PNW).....	12NCDMW	2,324	2,413	2,352	2,328	2,281
4. 8	SP Contract Sales (PSW).....	12NCDMW	481	481	481	481	481
4. 9	Canadian Entitlement Allocation.....	12NCDMW	0	63	447	768	409
4.10	C/E Exchanges (PNW).....	12NCDMW	125	129	130	121	116
4.11	C/E Exchanges (PSW).....	12NCDMW	100	102	98	98	99
4.12	Utility FPT Contracts.....	MW	4,047	4,047	4,047	4,047	4,047
4.13	Industrial FPT Contracts.....	MW	93	93	93	93	93
4.14	Utility IR Contracts.....	MW	6,619	6,859	6,859	6,859	6,811
4.15	Industrial IR Contracts.....	MW	1,119	1,119	1,119	1,119	1,119

1/ POD load amounts exclusive of losses except at 4.12 and 4.14 which include losses

2/ Includes Douglas, Grant, Pend Oreille, Cowlitz, Eugene, Seattle, Tacoma, Snomohish, and Springfield  
Gray's Harbor is treated as a non-scheduling utility and included on line 4.2 because of its selection of NT

3/ ICD (contract demand) amounts for NT/NTP minus base-rate NT/NTP billing determinants which are either 12CP or 12NCDs.

**TABLE 5**  
**Network Transmission Billing Determinant Factors**  
**(decimals)**

	(A)	(B)	(C)	(D)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5. 1 Federal Agencies PF Sales 1/ .....	1.388	1.412	1.347	1.396	1.481	1.421	1.383	1.158	1.127	1.085	1.124	1.126
5. 2 Non-Scheduling Pubs PF Sales 1/...	1.388	1.412	1.347	1.396	1.481	1.421	1.383	1.158	1.127	1.085	1.124	1.126
5. 3 Scheduling Publics PF Sales 2/.....	1.206	1.144	1.197	1.181	1.269	1.133	1.340	1.408	1.202	0.952	0.958	0.980
5. 4 Load Shaping 3/.....	1.042	1.055	1.066	1.082	1.079	1.052	1.051	1.039	1.034	1.031	1.032	1.031
5. 5 IP Sales.....	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5. 6 NR Sales 4/.....	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016
5. 7 SP Contract Sales (PNW) 4,5/.....	1.261	1.182	1.140	1.144	1.157	1.215	1.285	1.300	1.305	1.336	1.591	1.612
5. 8 SP Contract Sales (PSW) 4,6/.....	1.075	1.116	1.116	1.116	1.116	1.116	1.116	0.980	1.075	1.075	1.075	1.075
5. 9 Canadian Entitlement Allocation 4/.	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016	1.016
5.10 C/E Exchanges (PNW) 4,5/.....	1.035	1.035	1.053	1.035	1.039	1.035	1.049	1.180	1.173	1.105	1.105	1.105
5.11 C/E Exchanges (PSW) 4,6/.....	1.371	14.870	14.870	14.870	14.870	14.870	14.870	1.432	0.980	0.980	1.136	1.136
5.12 Utility FPT Contracts.....	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5.13 Industrial FPT Contracts.....	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5.14 Utility IR Contracts.....	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5.15 Industrial IR Contracts.....	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

1/ Coincidence factors with respect to energy developed from FY91 thru FY94 information.

2/ Reciprocal of average monthly load factors between energy and NCDs for the forecast period

3/ Reflects 1.6% losses for NT customers on a 1CD basis expressed in terms of the allocation to load shaping

4/ 1.6% loss factor, except 4.6% losses for PSW.

5/ Relation of monthly NCDs to annual contract demands.

6/ Relation of monthly NCDs to annual consolidated demands (all GenCo PSW arrangements under one contract)

**TABLE 6**  
**Network Transmission Billing Determinant Allocators 1/**

	Rate	Units 2/	(A)	(B)	(C)	(D)	(E)	(F)	(G)
			FY97	FY98	FY99	FY00	FY01	5-yr Average	5-yr Percentage
6. 1 Federal Agencies PF Sales.....	NT/NTP	12cpMW	188	189	191	192	193	191	0.70%
6. 2 Non-Scheduling Pubs PF Sales.....	NT/NTP	12cpMW	3,475	3,482	3,367	3,408	3,423	3,431	12.53%
6. 3 Scheduling Publics PF Sales.....	NTP	12NCDMW	1,942	1,968	2,276	2,346	2,561	2,219	8.11%
6. 4 Load Shaping.....	LS	MW	3,321	3,247	3,313	3,458	3,466	3,361	12.28%
6. 5 IP Sales.....	PTP	1CDMW	1,915	1,915	1,915	1,915	1,915	1,915	7.00%
6. 6 NR Sales.....	PTP	1CDMW	-	-	-	-	-	-	0.00%
6. 7 SP Contract Sales (PNW).....	PTP	1CDMW	3,061	3,081	2,920	3,027	2,479	2,913	10.64%
6. 8 SP Contract Sales (PSW).....	PTP	1CDMW	523	523	522	522	522	522	1.91%
6. 9 Canadian Entitlement Allocation.....	PTP	1CDMW	-	64	454	780	780	416	1.52%
6.10 C/E Exchanges (PNW).....	PTP	1CDMW	134	137	137	137	76	124	0.45%
6.11 C/E Exchanges (PSW).....	PTP	1CDMW	230	228	196	196	196	209	0.76%
6.12 Utility FPT Contracts.....	FPT	1CDMW	4,047	4,047	4,047	4,047	4,047	4,047	14.79%
6.13 Industrial FPT Contracts.....	FPT	1CDMW	93	93	93	93	93	93	0.34%
6.14 Utility IR Contracts.....	IR	1CDMW	6,619	6,859	6,859	6,859	6,859	6,811	24.88%
6.15 Industrial IR Contracts.....	IR	1CDMW	1,119	1,119	1,119	1,119	1,119	1,119	4.09%
6.16 Total.....			<b>26,668</b>	<b>26,953</b>	<b>27,410</b>	<b>28,099</b>	<b>27,730</b>	<b>27,372</b>	100.00%

1/ Amounts in Table 6 represent the loads in Table 4 times the factors in Table 5

2/ Losses megawatts for NT/NTP are included in Load Shaping; amounts for rate classes are inclusive of losses except for determined in the industrial block sale arrangement (6.5, 6.13, and 6.15)



**TABLE 7**  
**Nonfirm Network (ET) Sales and Intertie Rates Billing Determinants 1/**  
**(GWh/Yr, Average of FY97 - FY01, except MW @ TGT)**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	Incidence	Source	ET	ISB	ISA	XNB	XNA	TGT
<b>BPA GenCo</b>								
(genco)								
Intertie Only								
7. 1	Firm Sales, PSW.....	BPA	Appendix B	2,699				
7. 2	Firm Sales, Canada.....	BPA	Appendix B					
7. 3	Capacity/Energy Exchanges, PSW.....	BPA	Appendix B	220				
7. 4	Canadian Entitlement Return.....	BPA	Columbia River Treaty			1,640		
7. 5	Purchase Power, PSW.....	BPA	NFRAP12P, 141 * 29%		541			
7. 6	Purchase Power, Canada.....	BPA	NFRAP12P, 141 * 23%				429	
7. 7	Purchase Power, East.....	BPA	L/R, Tableau, line 166					32
Nonfirm								
7. 8	NF Sales, PNW.....	BPA	NFRAP12P, 88-157	5,669				
7. 9	NF Sales, PSW.....	BPA	NFRAP12P, 157	14,476	14,476			
7.10	NF Sales, Canada.....	BPA	I/M/B	167			167	
7.11	Storage Deliveries, PNW (Purchase).....	BPA	FY91 - FY95 History	533				
7.12	Storage Deliveries, PSW (Purchase).....	BPA	FY91 - FY95 History	427	427			
7.13	Storage Deliveries, Canada (Purchase).....	BPA	FY91 - FY95 History	2,880			2,880	
7.14	Storage Returns, PNW (Service).....	BPA	FY91 - FY95 History	741				
7.15	Storage Returns, PSW (Service).....	BPA	FY91 - FY95 History	0	0			
7.16	Storage Returns, Canada (Service).....	BPA	FY91 - FY95 History	24			24	
7.17	PNCA Deliveries, Publics.....	BPA	FY91 - FY95 History	343				
7.18	PNCA Deliveries, IOUs.....	BPA	FY91 - FY95 History	3,230				
7.19	Subtotal BPA GenCo.....	BPA	7. 1 thru 7.18	<b>28,491</b>	<b>2,919</b>	<b>15,445</b>	<b>1,640</b>	<b>3,500</b>
								<b>32</b>
<b>BPA TransCo Only</b>								
Firm								
7.20	Transfers from/to Canada x PNW.....	PNW	Appendix A			762		
7.21	Firm Bilaterals from/to Canada x PSW.....	Canadian	Appendix A					
7.22	Firm Bilaterals from/to PNW x PSW.....	PNW	Appendix A	3,101				
Nonfirm								
7.23	Spot Transfers from/to Canada x PNW.....	PNW	FY91 - FY95 History	1,262			1,262	
7.24	Spot Bilaterals from/to Canada x PSW.....	Canadian	FY91 - FY95 History	965	965		965	
7.25	Spot Bilaterals from/to PNW x PSW.....	PNW	History, Except NFP@IS	4,059	2,504			
7.26	Spot Transfers, PNW x PNW.....	PNW	FY91 - FY95 History	1,137				
7.27	Storage Wheeling.....	PNW/seller	FY91 - FY95 History	475	1		1	
7.28	Subtotal Wheeling.....		7.20 thru 7.27	<b>7,898</b>	<b>3,101</b>	<b>3,471</b>	<b>762</b>	<b>2,228</b>
7.29	Billing Determinant: ISA Rate.....		Col(D) + Col(E)		<b>24,936</b>			
<b>Revenue Energy Billing Determinants</b>								
GenCo 2/								
7.30	Nonfirm.....	BPA	FY91 - FY95 History	11,143	12,233		81	
7.31	Storage Purchases.....	BPA	History minus 7.39	657	349		1,680	
7.32	Storage Service.....	BPA	History minus 7.39	133	0		18	
7.33	PNCA, Publics.....	BPA	FY91 - FY95 History	101				
7.34	PNCA, Privates.....	BPA	FY91 - FY95 History	1,015				
7.35	Subtotal GenCo.....	BPA	7.19 - 7.38 - 7.39	<b>13,049</b>	<b>12,582</b>		<b>1,778</b>	
TransCo Only								
7.36	Nonfirm.....	varies	7.28 - 7.40	<b>3,371</b>	<b>3,471</b>		<b>2,228</b>	
7.37	Total Hourly Sales.....		7.35 + 7.36	<b>16,421</b>	<b>16,053</b>		<b>4,006</b>	
<b>Nonfirm Amounts within Annual PTP Demands 2/</b>								
7.38	GenCo deliveries within Demands.....	(BPA)	FY91 - FY95 History	14,530	2,863		1,721	
7.39	Firm Wheeling Concurrent with GenCo Storage Receipts....	(BPA)	FY91 - FY95 History	912	0		0	
7.40	IR Nonfirm.....	(varies)	FY91 - FY95 History	4,527				

1/ Appendix D describes the methodology and assumptions used in modeling amounts above GenCo's transmission demands.

2/ Revenue producing amounts above annual PTP demands ranging from 3,850 to 4,550 MW on the Network (see Table 6); 699 MW on the Southern Intertie; and up to 768 MW on the former Northern Intertie. Amounts above demands are modeled from hourly data; "exclusion within demands" are deduced.

**TABLE 8**  
**Nonfirm Network Energy Transmission ET-96 Rate Calculation**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	Units	Source	FY97	FY98	FY99	FY00	FY01	Total
8. 1 Network costs.....	(\$000)	Table 1	389,238	392,138	401,181	410,315	422,129	2,015,001
8. 2 PF (NT) Sales.....	(GWh)	Appendix B	40,202	39,374	40,621	41,680	43,586	205,463
8. 3 IP Sales.....	(GWh)	Appendix B	16,136	16,136	16,136	16,180	16,136	80,726
8. 4 NR Sales.....	(GWh)	Appendix B	0	0	0	0	0	0
8. 5 SP Sales, PNW.....	(GWh)	Appendix B	9,712	9,653	9,079	9,188	8,768	46,400
8. 6 SP Sales, PSW.....	(GWh)	Appendix B	2,372	2,634	2,864	2,950	2,677	13,496
8. 7 Capacity/Energy Exchanges, PNW.....	(GWh)	Appendix B	734	769	778	700	391	3,372
8. 8 Capacity/Energy Exchanges, PSW.....	(GWh)	Appendix B	235	193	137	203	331	1,099
8. 9 NF Sales, PNW.....	(GWh)	Appendix B	7,476	6,418	5,759	4,654	4,872	29,180
8.10 NF Sales, PSW.....	(GWh)	Appendix B	13,118	14,732	14,847	13,991	15,694	72,382
8.11 Canadian Entitlement Allocation.....	(GWh)	Appendix B	0	220	1,564	2,634	2,616	7,034
8.12 GenCo PNCA and Storage Service 1/..	(GWh)	Appendix D	4,602	4,339	4,339	4,339	4,075	21,694
8.13 Firm FPT Wheeling.....	(GWh)	Appendix A	19,789	19,898	19,898	19,898	19,898	99,381
8.14 Firm IR Wheeling.....	(GWh)	Appendix A	36,406	36,914	36,914	36,914	36,914	184,061
8.15 Nonfirm Network Wheeling.....	(GWh)	Table 7.36(C)	4,806	6,145	7,399	9,455	6,864	34,670
8.16 Total Transmission Energy.....	(GWh)	8.2 thru 8.15	155,588	157,426	160,333	162,786	162,823	798,957
8.17 Network Unit Cost.....	(mills/kWh)	8.1 / 8.16	2.50	2.49	2.50	2.52	2.59	<b>2.52</b>
8.18 Expected Average Revenue.....	(mills/kWh)	average revenues used to produce \$1 base-rate						2.270

1/ Excludes GenCo Storage Uses where BPA is storing in others as already included in load categories

**TABLE 9**  
**Intertie Rate Calculations**  
**IS-96, IM-96, and IE-96 Rates**

			(A)	(B)	(C)	(D)	(E)	(F)	
	Units	Source	FY97	FY98	FY99	FY00	FY01	5-yr Total	
<b>IS-96</b>									
9. 1	Southern Intertie costs.....	(\$000)	Table 3	63,572	62,552	62,904	62,977	63,636	315,641
9. 2	Total PSW energy.....	GWh	Table 7.29	21,850	24,985	26,076	26,011	25,760	124,682
9. 3	Unit Cost.....	(mills/kWh)	9.1 / 9.2	2.91	2.50	2.41	2.42	2.47	2.53
9. 4	Firm Intertie Load Factor....	(%)	1/	67%	67%	69%	71%	71%	69%
9. 5	Annual Demand Charge.....	(\$/kW-yr)	9.3 * 8.76 * 9.4	17.19	14.62	14.68	14.98	15.32	15.29
9. 6	Monthly (firm & nonfirm).....	(\$/kW-mo)	9.5 / 12	1.433	1.218	1.223	1.248	1.277	<b>1.274</b>
9. 7	Weekly (firm & nonfirm).....	(\$/kW-wk)	9.5 / 52	0.331	0.281	0.282	0.288	0.295	<b>0.294</b>
9. 8	Daily (firm & nonfirm).....	(\$/kW-day)	9.7 / 5	0.066	0.056	0.056	0.058	0.059	<b>0.059</b>
9. 9	Hourly (nonfirm).....	(mills/kWh)	min. of 9.3 rounded up or 9.8/16*1000	2.91	2.50	2.41	2.42	2.47	<b>2.54</b>
9.10	Average Hourly Revenues.....	(mills/kWh)		average revenues used to produce FCRTS RR					<b>2.540</b>
<b>IM-96 / IE-96</b>									
9.11	Eastern Intertie costs.....	(\$000)	Table 1	12,415	12,087	11,922	11,753	11,592	59,769
9.12	Forecast Wheeling of Colstrip	GWh	Appendix A	<b>7,092</b>	<b>7,092</b>	<b>7,092</b>	<b>7,112</b>	<b>7,092</b>	35,480
9.13	IE-96 nonfirm.....	(mills/kWh)	9.11 / 9.12	1.75	1.70	1.68	1.65	1.63	1.68
9.14	IM-96 Annual Demand Charge...	(\$/kW-yr)	2/	14.81	14.81	14.81	14.81	14.81	14.81
9.15	IM-96 Monthly Demand Charge..	(\$/kW-mo)	9.14 / 12	1.234	1.234	1.234	1.234	1.234	<b>1.234</b>
9.16	IM-96 Weekly Demand charge...	(\$/kW-wk)	9.15 / 52	0.285	0.285	0.285	0.285	0.285	<b>0.285</b>
9.17	IM-96 Demand charge.....	Daily	9.16 / 5	0.057	0.057	0.057	0.057	0.057	<b>0.057</b>
9.18	IM-96 Demand charge.....	(mills/kWh)	(9.17/16)*1000	3.56	3.56	3.56	3.56	3.56	<b>3.56</b>

1/ 69% load Factor reflects overall all energies under firm PSW demands including nonfirm amounts show in Table 7.38(E). See Appendicies A and B for firm energy under wheeling (ISB) and power (SP) contracts

2/ Government's annual TGT payment for the Montana Intertie (Garrison to Broadview) over 185.0 MWs BPA's payments are \$22,871/month pursuant to contract #90201.

**TABLE 10**  
**Network Nonfirm (ET) Revenue Credits and**  
**Firm Network Rate Development Costs**

	(B)	(A)	(C)	(D)	(E)	(F)	(G)	(H)
	Units	Source	FY97	FY98	FY99	FY00	FY01	5-Year Avg
10. 1 BPA GenCo Network Nonfirm Energy...	GWh	7.35(C)	14,096	14,032	13,383	11,316	12,421	13,049
10. 2 TransCo-Only Nonfirm ET Wheeling ..	GWh	7.36(C)	2,801	3,385	3,866	4,362	2,452	3,373
10. 3 Usage subject to ET.....	GWh	10. 1 + 10. 2	16,897	17,417	17,249	15,678	14,873	16,423
10. 4 Network Costs.....	(\$000)	Table 3(B)	345,567	341,965	347,920	353,361	364,285	350,620
10. 5 Nonfirm Network (ET) Revenue Credit	(\$000)	8.18(H) * 10.3	38,359	39,540	39,158	35,591	33,764	<b>37,283</b>
10. 6 Firm Network Rate Development Costs	(\$000)	10.4 - 10.5	307,208	302,425	308,761	317,770	330,520	<b>313,337</b>

**TABLE 11**  
**Network Transmission Cost Allocations**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
	Units	Source	FY97	FY98	FY99	FY00	FY01	5-yr Average	
<b>Allocators</b>									
11. 1	NT/NTP Contracts..	(12CPMW)	Table 6	5,605	5,639	5,834	5,945	6,177	5,840
11. 2	NT Load Shaping...	(MW)	Table 6	3,321	3,247	3,313	3,458	3,466	3,361
11. 3	PTP Contracts.....	(1CDMW)	Table 6	5,864	5,948	6,144	6,577	5,968	6,100
11. 4	IR Contracts.....	(1CDMW)	Table 6	7,738	7,978	7,978	7,978	7,978	7,930
11. 5	FPT Contracts.....	(1CDMW)	Table 6	4,140	4,140	4,140	4,140	4,140	4,140
11. 6	Total.....	(MW)		<u>26,668</u>	<u>26,953</u>	<u>27,410</u>	<u>28,099</u>	<u>27,730</u>	<u>27,372</u>
<b>Percentages</b>									
11. 7	NT/NTP Contracts..	(%)	11.1 / 11.6	21.019%	20.922%	21.284%	21.159%	22.276%	21.34%
11. 8	NT Load Shaping...	(%)	11.2 / 11.6	12.451%	12.048%	12.088%	12.307%	12.500%	12.28%
11. 9	PTP Contracts.....	(%)	11.3 / 11.6	21.988%	22.069%	22.416%	23.407%	21.524%	22.29%
11.10	IR Contracts.....	(%)	11.4 / 11.6	29.018%	29.602%	29.108%	28.394%	28.772%	28.97%
11.11	FPT Contracts.....	(%)	11.5 / 11.6	15.524%	15.360%	15.104%	14.733%	14.929%	15.12%
11.12	Total.....	(%)		<u>100.000%</u>	<u>100.000%</u>	<u>100.000%</u>	<u>100.000%</u>	<u>100.000%</u>	<u>100.00%</u>
<b>Cost Allocations</b>									
11.13	NT/NTP Contracts..	(\$000)	11.7 * 10.6	64,572	63,273	65,717	67,236	73,627	<u>334,425</u>
11.14	NT Load Shaping...	(\$000)	11.8 * 10.6	38,252	36,436	37,322	39,109	41,314	<u>192,433</u>
11.15	PTP Contracts.....	(\$000)	11.9 * 10.6	67,548	66,741	69,213	74,380	71,140	<u>349,022</u>
11.16	IR Contracts.....	(\$000)	11.10 * 10.6	89,145	89,523	89,875	90,228	95,096	<u>453,866</u>
11.17	FPT Contracts.....	(\$000)	11.11 * 10.6	47,691	46,452	46,634	46,818	49,344	<u>236,938</u>
11.18	Total.....	(\$000)		<u>307,208</u>	<u>302,425</u>	<u>308,761</u>	<u>317,770</u>	<u>330,520</u>	<u>1,566,684</u>

**TABLE 12**  
**Calculation of Firm Network Base, NT Load Shaping, and**  
**FERC Proforma Network Rates**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	Units	Source	FY97	FY98	FY99	FY00	FY01	5-yr	Total
<b>FPT Revenue Deficiency Calculation</b>									
12. 1 Network Costs Allocated to FPT.....	(\$000)	11.17	47,691	46,452	46,634	46,818	49,344		236,938
12. 2 FPT Target Revenues.....	(\$000)	Table 17.49(E) * 1.134	35,446	35,446	35,446	35,446	35,446		177,230
12. 3 FPT Revenue Deficiency.....	(\$000)	12.1 - 12.2	12,245	11,006	11,188	11,372	13,898		59,708
<b>Base Rate Calculation</b>									
12. 4 Allocated Costs.....	(\$000)	11.13 + 11.15 + 11.16	221,266	219,537	224,804	231,843	239,862		1,137,313
12. 5 Allocated FPT Revenue Deficiency.....	(\$000)	[(11.7+11.9+11.10) / (11.12-11.11)] * 12.3	10,440	9,439	9,595	9,730	11,856		51,060
12. 6 Rate Development Costs.....	(\$000)	12.4 + 12.5	231,706	228,976	234,400	241,574	251,718		1,188,373
12. 7 Billing Determinants 1/.....	(MW)	11.1 + 11.3 + 11.4	19,141	19,501	19,891	20,436	20,059		99,028
12. 8 Base Rate.....	(\$/kW-yr)	12.6 / 12.7	12.10	11.74	11.78	11.82	12.55		12.00
12. 9 Monthly.....	(\$/kW-mo)	12.8 / 12	1.008	0.978	0.982	0.985	1.046		1.000
<b>Transmission Load Shaping Charge</b>									
12.10 Allocated Costs.....	(\$000)	11.14	38,252	36,436	37,322	39,109	41,314		192,433
12.11 Allocated FPT Revenue Deficiency.....	(\$000)	12.3 - 12.5	1,805	1,567	1,593	1,641	2,042		8,648
12.12 Rate Development Costs.....	(\$000)	12.10 + 12.11	40,057	38,003	38,915	40,750	43,356		201,081
12.13 Billing Determinant.....	12CPMW	Appendix B	6,013	5,998	6,191	6,330	6,558		31,090
12.14 Load Shaping Rate.....	(\$/kW-yr)	12.12 / 12.13	6.36	6.34	6.29	6.44	6.61		6.47
12.15 Monthly.....	(\$/kW-mo)	12.14 / 12	0.530	0.528	0.524	0.536	0.551		0.539
12.16 Monthly NT w/Load Shaping	(\$/kW-mo)	12.9 + 12.15	1.538	1.506	1.506	1.521	1.597		1.539
<b>Network Proforma Rates</b>									
12.17 Annual.....	(\$/kW-yr)	12.8	12.10	11.74	11.78	11.82	12.55		12.00
12.18 Monthly (firm & nonfirm cap).....	(\$/kW-mo)	12.17 / 12	1.008	0.978	0.982	0.985	1.046		1.000
12.19 Weekly (firm & nonfirm cap).....	(\$/kW-wk)	12.17 / 52	0.233	0.226	0.227	0.227	0.241		0.231
12.20 Daily (firm & nonfirm cap).....	(\$/kW-day)	12.19 / 5	0.047	0.045	0.045	0.045	0.048		0.046
12.21 Hourly (firm & nonfirm cap).....	(mills/kWh)	min(8.17 or 12.20/16*1000)	2.50	2.49	2.50	2.52	2.59		2.52

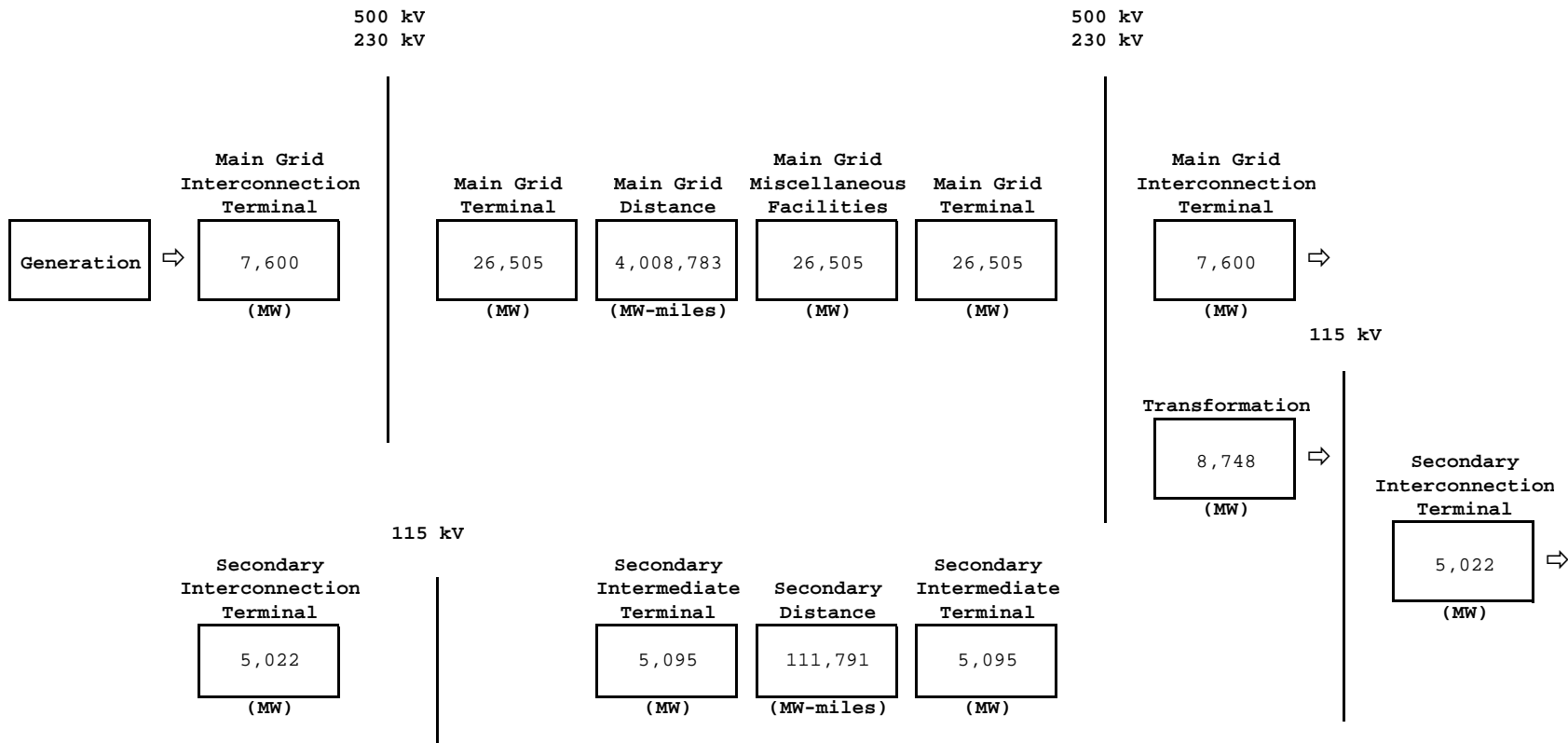
1/ Excludes 66MW of effective Short Distance Discount (SDD) from current IR contracts

**TABLE 13**  
**Subsegmented Network Costs**  
**Average for FY97 through FY01**  
**(\$000/yr, except \$000 @ Plant)**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Net Plant	General Plant	Total Plant	Annual Cost	BPA NOR	ET Rev. Credits /1	Average/ Total
<b>500 kV System</b>							
13. 1 Lines.....	550,568	109,698	660,266	34,317	44,985	(11,129)	68,173
13. 2 Lines Reactor & Reactive.....	74,870	15,014	89,884	10,510	6,116	(1,515)	15,111
13. 3 Subtotal.....	625,438	124,712	750,150	44,826	51,102	(12,645)	83,283
13. 4 Terminals.....	35,376	7,098	42,474	5,134	2,890	(858)	7,166
13. 5 CORPS & USBR.....	34,422	2,340	36,762	2,225	2,508	(742)	3,990
13. 6 Switching.....	116,124	23,309	139,433	16,434	9,487	(4,661)	21,260
13. 7 500/230 kV Transformation.....	112,963	22,523	135,486	18,493	9,229	(4,530)	23,193
<b>230-345 kV System</b>							
13. 8 Lines.....	241,937	48,233	290,170	25,795	19,767	(4,891)	40,671
13. 9 Lines Reactor & Reactive.....	76,647	15,539	92,186	12,228	6,259	(1,554)	16,933
13.10 Subtotal.....	318,584	63,772	382,356	38,022	26,026	(6,445)	57,604
13.11 Terminals.....	37,474	7,602	45,076	5,773	3,060	(910)	7,923
13.12 CORPS & USBR.....	24,095	1,638	25,733	1,558	1,755	(520)	2,793
13.13 Switching.....	42,035	8,453	50,488	6,810	3,433	(1,688)	8,556
13.14 Direct Delivery.....	13,122	2,609	15,731	2,395	1,072	(703)	2,764
13.15 230/115 kV Transformation.....	139,984	27,988	167,972	23,700	11,436	(2,157)	32,979
<b>Secondary System</b>							
13.16 Lines.....	126,623	25,321	151,944	18,944	10,345	(443)	28,846
13.17 Lines Reactor & Reactive.....	23,926	4,794	28,720	4,627	1,955	(84)	6,498
13.18 Subtotal.....	150,549	30,115	180,664	23,571	12,299	(526)	35,344
13.19 Terminals.....	56,149	11,292	67,441	9,128	4,586	(264)	13,451
13.20 CORPS & USBR.....	10,326	702	11,028	668	753	(43)	1,377
13.21 Delivery Terminals.....	19,838	3,951	23,789	4,110	1,621	(551)	5,179
13.22 115/69 Transformation.....	11,214	2,229	13,443	2,345	917	(39)	3,223
13.23 Total Network.....	1,747,693	340,333	2,088,026	205,193	142,175	(37,283)	310,085

1/ Revenue credits from ET-96 only. Annual cost and NOR columns total to Table 3 amounts and therefore include all Network revenue credits and rate design adjustments except underrecovery from FPT. Costs of 34.5 kV facilities are excluded from subsegmentation. Subsegmented like the rate component's share of unconstrained revenues.

**TABLE 14**  
**FPT Rate Calculations**  
**Power Flow Analysis**  
**January 1997**





**TABLE 15**  
**FPT Constraining Ratio**

	(A)	(B)	(C)
	Units	Source	Average
15. 1 FPT Revenues from Unconstrained Rates	(\$000)	17.49 (F)*5	153,647
15. 2 Settlement Target Revenues.....	(\$000)	12. 2	177,230
15. 3 FPT Constraining Ratio.....	decimal	15.2 / 15.1	<b>1.15349</b>

**TABLE 16**  
**Development of the FPT-96 Rate Components**

		(A)	(B)	(C)	(D)	(E)
		Annualized	Table 13(G)	Power	Unconstrained	Final Rate
		Cost	Reference	Flows	Rate	Components
		( <u>\$000</u> )		Table 14	(A) / (C)	(D) * 15.3(C):
				(MW or MW-mi)	(\$/kW-yr or	1.15349
					\$/kW-mi-yr)	
<b>Main Grid</b>						
<b>Terminals</b>						
16. 1	500 kV Terminals.....	7,166	13. 4			
16. 2	500 kV CORPS & USBR.....	3,990	13. 5			
16. 3	230-345 kV Terminals.....	7,923	13.11			
16. 4	230-345 kV CORPS & USBR.....	2,793	13.12			
16. 5	Total.....	21,872		26,505	0.41 1/	0.47
<b>Distance</b>						
16. 6	500 kV Lines.....	68,173	13. 1			
16. 7	500 kV Lines Reactor & Reactive....	15,111	13. 2			
16. 8	230-345 kV Lines.....	40,671	13. 8			
16. 9	230-345 kV Lines Reactor & Reactive	16,933	13. 9			
16.10	Total.....	140,887		4,008,783	0.0351	0.0405
<b>Miscellaneous Facilities</b>						
16.11	500 kV Switching.....	21,260	13. 6			
16.12	500/230 kV Transformation.....	23,193	13. 7			
16.13	Switching.....	8,556	13.13			
16.14	Total.....	53,008		26,505	2.00	2.31
16.15	Interconnection Terminal.....					
16.15	Direct Delivery.....	2,764	13.14	7,600	0.36	0.42
<b>Secondary System</b>						
<b>Transformation</b>						
16.16	230/115 kV Transformer.....	32,979	13.15	8,748	3.77	4.35
<b>Interconnection Terminal</b>						
16.17	Direct Delivery.....	5,179	13.21	5,022	1.03	1.19
<b>Distance</b>						
16.18	Lines.....	28,846	13.16			
16.19	Lines Reactor & Reactive.....	6,498	13.17			
16.20	115/69 Transformation.....	3,223	13.22			
	Total.....	38,566		111,791	0.3450	0.3980
<b>Intermediate Terminals</b>						
16.20	Terminals.....	13,451	13.19			
16.21	CORPS & USBR.....	1,377	13.20			
	Total.....	14,828		5,095	1.46 1/	1.68
16.22	Total Network excl 34.5kV costs.....	310,085				

1/ Main Grid and Secondary System Intermediate Terminal Costs are divided in half in computing the component charge because column (A) costs are divided equally between sending and receiving terminals.

**TABLE 17**  
**Revenues from FPT**  
**(\$000/yr)**

		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
		Transmission	Compensation Factors			Revenues (Avg. per 5 years)			Percent	
		Rate	Unconst-	Unconst-	Unconst-	Current '95	Unconst-	Proposed	Change	
			rained	rained	rained		rained		(G)/(E)	
		(MW)	(\$/kW-yr)	(\$/kW-yr)	(\$/kW-yr)	(\$000/yr)	(\$000/yr)	(\$000/yr)	(%)	
<b>Cowlitz Co PUD</b>										
17. 1	Priest Rapids.....	FPT.3	17.0	7.06	8.96	10.36	120	152	176	47%
17. 2	Swift.....	FPT.1	77.0	3.51	3.45	3.99	271	266	308	14%
17. 3	Wanapum.....	FPT.1	21.0	9.87	9.23	10.65	207	194	224	8%
17. 4			115.0				598	612	708	18%
<b>Douglas Co PUD</b>										
17. 5	Nilles Corner.....	FPT.1	1.8	3.59	4.28	4.94	6	8	9	38%
17. 6	Wells.....	FPT.1	4.5	4.97	4.80	5.54	22	22	25	12%
17. 7			6.3				29	29	34	17%
<b>DSI Segment</b>										
17. 8	Intalco.....	FPT.1	92.8	3.20	3.11	3.58	297	288	332	12%
<b>Grant Co PUD</b>										
17. 9	Priest Rapids/Wanapum	FPT.1	355.9	5.02	4.84	5.58	1,785	1,721	1,986	11%
<b>Okanogan Co PUD</b>										
17.10	Wells.....	FPT.1	0.0	10.13	9.71	11.20	0	0	0	N.A.
<b>Pacific Northwest Generating Cc</b>										
17.11	Turlock.....	FPT.1	50.0	4.21	4.03	4.66	211	202	233	11%
<b>Pacific Power and Light</b>										
17.12	Centralia.....	FPT.3	638.0	3.97	5.24	6.05	2,534	3,346	3,859	52%
17.13	Clark County PUD.....	FPT.1	36.7	8.74	8.53	9.84	320	313	361	13%
17.14	Clatsop.....	FPT.3	7.0	8.39	12.18	14.05	59	85	98	68%
17.15	Colstrip.....	FPT.1	140.0	16.26	15.11	17.45	2,276	2,115	2,443	7%
17.16	Hermiston.....	FPT.1	464.0	11.36	10.54	12.17	5,273	4,889	5,646	7%
17.17	Kalispell.....	FPT.3	10.0	4.30	5.80	6.70	43	58	67	56%
17.18	Libby.....	FPT.3	3.0	13.40	18.83	21.72	40	56	65	62%
17.19	Middlefork.....	FPT.1	3.2	16.85	18.06	20.83	54	58	67	24%
17.20	Midpoint-Medford.....	FPT.1	600.0	12.43	11.62	13.40	7,459	6,970	8,042	8%
17.21	Priest Rapids.....	FPT.1	235.0	2.60	2.59	2.98	612	609	699	14%
17.22	PSW(DC)/PPL.....	FPT.1	200.0	3.65	3.52	4.07	730	703	814	12%
17.23	Swift.....	FPT.1	222.0	3.84	3.76	4.34	852	834	964	13%
17.24	Wanapum.....	FPT.1	269.0	9.64	9.01	10.40	2,592	2,424	2,799	8%
17.25	Widco.....	FPT.1	17.3	6.88	6.55	7.56	119	113	131	10%
17.26			2845.2				22963.8	22573.2	26054.4	13.459%
<b>Pend Orille Co PUD</b>										
17.27	Bell POI.....	FPT.1	9.0	4.82	4.69	5.41	43	42	49	12%
17.28	Boundary POI.....	FPT.1	32.0	4.97	4.78	5.51	159	153	176	11%
17.29	Box Canyon.....	FPT.1	60.4	8.05	8.44	9.71	486	510	586	21%
17.30			101.4				689	705	811	18%
<b>Portland General Electric</b>										
17.31	Boardman Unit 1.....	FPT.1	75.0	4.42	4.32	4.99	331	324	374	13%
17.32	WNP-3.....	FPT.1	53.7	7.96	7.64	8.82	427	410	474	11%
17.33			128.7				758	734	848	12%
<b>Puget Sound Power and Light</b>										
17.34	WNP-3.....	FPT.1	32.2	6.52	6.34	7.32	210	204	236	12%

**TABLE 17**  
**Revenues from FPT**  
**(\$000/yr)**

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)		
	Transmission		Compensation Factors			Revenues (Avg. per 5 years)			Percent	
	Rate	Demand	Current	'95	Unconst- rained Proposed	Current	'95	Unconst- rained Proposed	Change (G)/(E)	
<b>Tacoma Public Utilities</b>										
17.35	Centralia.....	FPT.1	107.0	4.12	3.95	4.55	440	422	487	10%
17.36	Eltopia.....	FPT.1	1.2	17.17	16.60	19.14	21	20	23	11%
17.37	Main Canal Headworks.	FPT.1	13.0	12.95	11.98	13.84	168	156	180	7%
17.38	PEC 66.....	FPT.1	1.3	18.38	18.04	20.81	24	23	27	13%
17.39	Priest Rapids.....	FPT.3	71.1	5.75	7.36	8.53	409	523	607	48%
17.40	Russell Smith.....	FPT.1	3.1	26.03	27.49	31.72	81	85	98	22%
17.41	Summer Falls.....	FPT.1	48.0	12.95	11.98	13.84	622	575	664	7%
17.42	TCL/CVP + NFP.....	FPT.1	49.3	8.20	7.66	8.83	404	377	435	8%
17.43	Wynoochee.....	FPT.1	12.6	9.64	9.23	10.66	121	116	134	11%
17.44			306.6				2,290	2,298	2,655	16%
<b>Wash Public Power Supply</b>										
17.45	Packwood.....	FPT.1	28.9	14.56	14.63	16.87	421	423	488	16%
<b>Washington Water Power Co</b>										
17.46	WNP-3.....	FPT.1	26.9	15.78	14.66	16.92	424	394	455	7%
17.47	WWP/NCPA Power Sale..	FPT.1	50.0	11.64	10.90	12.58	582	545	629	8%
17.48			76.9				1,006	939	1,084	8%
17.49	Total.....		4,140				31,258	30,729	35,468	13.471%
17.50	Settlement %Increase.						13.4%			

**TABLE 18**  
**Utility Delivery Average Cost Calculation**  
and Underrecovery from \$9.00/kW-yr

			(A)	(B)	(C)	(D)	(E)	(F)
			FY97	FY98	FY99	FY00	FY01	5 Yr Total
	Units	Source						
<b>Average Annual Rate</b>								
18. 1	Delivery Segment Costs.....	(\$000) Table 3	20,460	20,168	20,445	20,731	21,072	102,876
18. 2	Billing Determinant: Power							
18. 3	Federal Agencies.....	(12cpkW) Appendix C	2,065	2,070	2,090	2,107	2,114	10,446
18. 4	NonScheduling Utilities....	(12cpkW) Appendix C	1,430,549	1,432,274	1,379,132	1,396,627	1,406,493	7,045,075
18. 5	Scheduling Utilities.....	(12cpkW) Appendix C	103,001	72,443	115,593	119,209	129,248	539,493
Wheeling								
18. 6	Federal Agencies.....	(12cpkW) Appendix C	0	0	0	0	0	1
18. 7	NonScheduling Utilities....	(12cpkW) Appendix C	23,661	23,682	23,663	23,663	23,660	118,328
18. 8	Scheduling Utilities.....	(12cpkW) Appendix C	43,099	41,821	43,663	43,820	44,146	216,549
18. 9	Total.....	(12cpkW)	1,602,374	1,572,290	1,564,142	1,585,426	1,605,661	7,929,893
18.10	Average Cost.....	(\$/kW-yr) 18.1*1000/18.9	12.77	12.83	13.07	13.08	13.12	12.97
18.11	Monthly.....	(\$/kW-month) 18.10 / 12	1.064	1.069	1.089	1.090	1.094	<b>1.081</b>
<b>Underrecovery</b>								
18.12	Revenues @ \$9.00/kW-yr	(\$000) 18.9/1000*\$9.00	14,421	14,151	14,077	14,269	14,451	71,369
18.13	Underrecovery	(\$000) 18.1 - 18.12	6,039	6,017	6,368	6,462	6,621	<b>31,507</b>

**Table 19**  
**Summary of Rate Changes**

	(A) Present	(B) 1995	(C) Proposed 1996	(D) Percent
<b>FPT-96.1 and FPT-96.3 (\$/kW-yr)</b>				
	<b>FPT.1</b>	<b>FPT.3</b>		
19.1 M-G Distance (\$/kW-mi-yr).....	0.0386	0.0292	0.0405	5%
19.2 M-G Miscellaneous Facilities.....	1.96	1.36	2.31	18%
19.3 M-G Terminal.....	0.46	0.31	0.47	2%
19.4 M-G Interconnection Terminal.....	0.28	0.28	0.42	50%
19.5 S-S Transformation.....	4.26	2.63	4.35	2%
19.6 S-S Interconnection Terminal.....	0.71	0.46	1.19	68%
19.7 S-S Intermediate Terminal.....	1.34	0.87	1.68	25%
19.8 S-S Distance (\$/kW-mi-yr).....	0.2895	0.2039	0.3980	37%
19.9 Overall FPT Rate.....	7.55		8.57	<b>13.5%</b>
<b>IR-96</b>				
19.10 Demand (\$/kW-yr).....	5.29		12.00	
19.11 Energy (mills/kWh).....	1.10		0.00	
19.12 monthly (\$/kW-mo).....	0.882		1.000	<b>13.4%</b>
<b>NT-96</b>				
19.13 Base Rate (\$/kW-yr).....	N.A.		12.00	N.A.
19.14 Load Shaping (\$/kW-yr).....	N.A.		6.47	N.A.
19.15 monthly (\$/kW-mo).....			0.539	
19.16 Total monthly, TransCo serving entire load..			1.539	
<b>NTP-96</b>				
19.17 Base Charge (\$/kW-mo).....	N.A.		1.000	N.A.
19.18 Load Shaping (\$/kW-mo).....	N.A.		0.539	N.A.
19.19 Reserved Capacity Charge (\$/kW-mo).....	N.A.		0.083	N.A.
<b>PTP-96 / RNF-96 nonfirm caps:</b>				
19.20 Demand (\$/kW-yr).....	N.A.		12.00	N.A.
19.21 monthly (\$/kW-mo).....			1.000	
19.22 weekly (\$/kW-wk).....			0.231	
19.23 daily (\$/kW-day).....			0.046	
<b>Utility Delivery</b>				
19.24 Demand (\$/kW-yr).....	N.A.		9.00	N.A.
19.25 monthly (\$/kW-mo).....			0.750	
<b>IS-96</b>				
19.26 Demand (\$/kW-yr).....	8.81		15.29	
19.27 Energy (mills/kWh).....	1.76		0.00	
19.28 monthly (\$/kW-mo).....	1.468		1.274	<b>-13%</b>
19.29 weekly (\$/kW-wk).....	N.A.		0.294	N.A.
19.30 daily (\$/kW-day).....	N.A.		0.059	N.A.
<b>IM-96</b>				
19.31 Demand (\$/kW-yr).....	N.A.		14.81	N.A.
19.32 monthly (\$/kW-mo).....			1.234	
19.33 weekly (\$/kW-wk).....			0.285	
19.34 daily (\$/kW-day).....			0.057	
<b>Nonfirm Hourly Rate Caps</b>				
19.35 ET-96 (mills/kWh).....	2.10		2.52	<b>20%</b>
19.36 IS-96 (mills/kWh).....	3.23		2.54	<b>-21%</b>
19.37 IM-96 (mills/kWh).....	N.A.		3.56	N.A.
19.38 IE-96 (mills/kWh).....	2.12		1.68	<b>-21%</b>

**Table 20**  
**Transmission Revenue Summary**  
**(\$000)**

		(A)	(B)	(C)	(D)	(E)	(F)	
		Rate						
Schedule		FY97	FY98	FY99	FY00	FY01	5-Yr Total	
<b>BPA GenCo</b>								
<b>Services</b>								
<b>Priority Firm (PF)</b>								
20. 1	Federal Agencies.....	NT-96	2,260	2,271	2,288	2,301	2,317	11,437
20. 2	Federal Agencies Load Shaping.....	LS-96	1,218	1,224	1,233	1,240	1,249	6,165
20. 3	Federal Agencies Delivery.....	DL-96	19	19	19	19	19	94
20. 4	NonScheduling Utilities.....	NT-96	41,695	41,784	40,407	40,897	41,074	205,857
20. 5	NonScheduling Utilities Load Shaping..	LS-96	22,473	22,521	21,780	22,043	22,139	110,957
20. 6	NonScheduling Utilities Delivery.....	DL-96	12,875	12,890	12,412	12,570	12,658	63,406
20. 7	Scheduling Utilities.....	NTP-96	23,310	23,613	27,310	28,146	30,735	133,114
20. 8	Scheduling Utilities Load Shaping.....	LS-96	15,201	15,048	17,033	17,660	19,028	83,970
20. 9	Scheduling Utilities Delivery.....	DL-96	927	652	1,040	1,073	1,163	4,855
20.10			<b>119,977</b>	<b>120,022</b>	<b>123,523</b>	<b>125,949</b>	<b>130,382</b>	<b>619,855</b>
<b>Industrial Power (IP)</b>								
20.11	IP Transmission.....	PTP-96	22,985	22,985	22,985	22,985	22,985	114,924
20.12	Delivery Charge.....	UFT-96	7,745	7,868	7,993	8,121	8,250	39,978
20.13			<b>30,730</b>	<b>30,853</b>	<b>30,978</b>	<b>31,106</b>	<b>31,235</b>	<b>154,902</b>
<b>New Resource (NR)</b>								
20.14	NR Transmission.....	PTP-96	0	0	0	0	0	0
<b>Surplus Power (SP)</b>								
20.15	SP Contract, PNW.....	PTP-96	36,732	36,966	35,040	36,320	29,748	174,807
20.16	SP Contract, PSW, Network.....	PTP-96	6,280	6,279	6,261	6,261	6,261	31,343
20.17	SP Contract, PSW, Intertie.....	ISB-96	8,001	8,000	7,977	7,977	7,977	39,931
20.18			<b>51,014</b>	<b>51,245</b>	<b>49,278</b>	<b>50,558</b>	<b>43,987</b>	<b>246,081</b>
<b>Capacity/Energy Exchanges</b>								
20.19	C/E Exchanges, PNW.....	PTP-96	1,609	1,646	1,646	1,646	914	7,462
20.20	C/E Exchanges, PSW, Network.....	PTP-96	2,757	2,733	2,349	2,349	2,349	12,539
20.21	C/E Exchanges, PSW, Intertie.....	ISB-96	3,513	3,482	2,993	2,993	2,993	15,974
20.22			<b>7,879</b>	<b>7,861</b>	<b>6,989</b>	<b>6,989</b>	<b>6,257</b>	<b>35,974</b>
<b>Nonfirm (NF)</b>								
20.23	PNW, Network	ET-96	9,732	8,128	7,108	5,246	5,356	35,571
20.24	Canada, Network.....	ET-96	84	147	212	259	313	1,015
20.25	PSW, Network.....	ET-96	17,224	18,994	18,869	16,551	18,263	89,901
20.26	PSW, Intertie.....	ISA-96	27,157	31,850	32,219	30,034	34,100	155,360
20.27			<b>54,196</b>	<b>59,120</b>	<b>58,407</b>	<b>52,091</b>	<b>58,032</b>	<b>281,847</b>
<b>Return of Canadian Entitlement</b>								
20.28	CEA, Network.....	PTP-96	0	768	5,450	9,363	9,363	24,945
<b>Storage Returns (Storage in BPA)</b>								
20.29	PNW Utilities.....	ET-96	348	329	291	224	295	1,488
20.30	Canadian Utilities, Network.....	ET-96	14	11	10	7	7	49
20.31	PSW Utilities, Network.....	ET-96	0	0	0	0	0	0
20.32	PSW Utilities, Intertie.....	ISA-96	0	0	0	0	0	0
20.33			<b>362</b>	<b>340</b>	<b>301</b>	<b>231</b>	<b>302</b>	<b>1,537</b>
<b>Pacific Northwest Coordination Agrmnt</b>								
20.34	GenCo PNCA Deliveries.....	ET-96	3,016	2,646	2,454	2,206	2,348	12,670
<b>Uses [of FCRTS for Production Inputs]</b>								
<b>Direct Assignment</b>								
20.35	Generation-Integration.....		15,149	14,661	14,425	14,257	14,274	72,765
20.36	General Transfer Agreement Costs.....		30,885	31,597	31,156	32,143	32,557	158,338
20.37	Utility Delivery Underrecovery.....		6,039	6,017	6,368	6,462	6,621	31,507
20.38			<b>52,073</b>	<b>52,275</b>	<b>51,949</b>	<b>52,862</b>	<b>53,452</b>	<b>262,611</b>
<b>Extra-Regional Purchase Power</b>								
20.39	PSW, Intertie.....	ISA-96	454	868	1,600	2,005	1,947	6,874
20.40	East, Intertie.....	TGT-96	474	474	474	474	474	2,369
20.41			<b>928</b>	<b>1,342</b>	<b>2,074</b>	<b>2,479</b>	<b>2,421</b>	<b>9,243</b>
<b>Storage Deliveries (BPA Storing in Others)</b>								
20.42	BPA GenCo Storage in PNW.....	ET-96	231	222	200	166	212	1,031
20.43	BPA GenCo Storage in Canada, Network..	ET-96	1,283	1,199	1,078	895	1,106	5,562
20.44	BPA GenCo Storage in PSW, Network.....	ET-96	69	178	160	133	298	838
20.45	BPA GenCo Storage in PSW, Intertie....	ISA-96	355	884	887	881	1,421	4,428
20.46			<b>1,938</b>	<b>2,484</b>	<b>2,325</b>	<b>2,075</b>	<b>3,037</b>	<b>11,859</b>
20.47	<b>SubTotal: BPA GenCo Transmission</b>		<b>322,113</b>	<b>328,956</b>	<b>333,727</b>	<b>335,910</b>	<b>340,816</b>	<b>1,661,521</b>

**Table 20**  
**Transmission Revenue Summary**  
**(\$000)**

		(A)	(B)	(C)	(D)	(E)	(F)	
		Rate						
Rate	Schedule	FY97	FY98	FY99	FY00	FY01	5-Yr Total	
<b>Transmission-Only Services</b>								
<b>Revenue Credits</b>								
20.48	Table 2, Excl. Ind.UFT; E.Purch Pwr...	varies	34,225	41,600	46,481	50,210	50,842	223,358
<b>Firm Transmission</b>								
<b>Formula Power Transmission (FPT)</b>								
20.49	Utility.....	FPT-96	35,136	35,136	35,136	35,136	35,136	175,682
20.50	Industry.....	FPT-96	332	332	332	332	332	1,659
20.51			<b>35,468</b>	<b>35,468</b>	<b>35,468</b>	<b>35,468</b>	<b>35,468</b>	<b>177,341</b>
<b>Integration of Resources (IR)</b>								
20.52	Utility.....	IR-96	78,653	81,533	81,533	81,533	81,533	404,784
20.53	Industry.....	IR-96	13,428	13,428	13,428	13,428	13,428	67,140
20.54			<b>92,081</b>	<b>94,961</b>	<b>94,961</b>	<b>94,961</b>	<b>94,961</b>	<b>471,924</b>
<b>Intertie South</b>								
20.55	Utility.....	ISB-96	9,106	10,109	10,109	10,109	10,109	49,544
<b>Delivery Charge</b>								
20.56	Utility.....	DL-96	601	590	606	607	610	3,014
20.57	Industry.....	UFT-96	4,900	4,978	5,057	5,138	5,220	25,292
20.58			<b>5,501</b>	<b>5,567</b>	<b>5,663</b>	<b>5,745</b>	<b>5,830</b>	<b>28,306</b>
<b>Nonfirm Transmission</b>								
<b>Transfers</b>								
20.59	PNW x PNW.....	ET-96	629	873	1,025	1,363	1,154	5,044
20.60	Canada x PNW, Network.....	ET-96	282	400	441	540	514	2,177
20.61	Canada x PSW, Network.....	ET-96	1,899	2,302	2,642	2,883	1,230	10,956
20.62	Canada x PSW, Intertie.....	ISA-96	2,124	2,575	2,956	3,226	1,376	12,258
20.63	PNW x PSW, Network.....	ET-96	3,017	3,688	4,247	4,694	2,354	17,999
20.64	PNW x PSW, Intertie.....	ISA-96	5,170	6,326	7,251	8,198	4,862	31,806
20.65			<b>13,120</b>	<b>16,164</b>	<b>18,562</b>	<b>20,904</b>	<b>11,491</b>	<b>80,241</b>
<b>Storage</b>								
20.66	Network.....	ET-96	532	423	423	423	314	2,114
	Intertie.....	ISA-96	2	6	6	6	10	28
			<b>533</b>	<b>428</b>	<b>428</b>	<b>428</b>	<b>323</b>	<b>2,142</b>
20.67	<b>SubTotal: Transmission-Only</b>		<b>190,035</b>	<b>204,298</b>	<b>211,673</b>	<b>217,826</b>	<b>209,024</b>	<b>1,032,856</b>
20.68	<b>Total Revenues, Transmission</b>		<b>512,148</b>	<b>533,253</b>	<b>545,400</b>	<b>553,736</b>	<b>549,840</b>	<b>2,694,378</b>
20.69	<b>Total Cost, Transmission</b>	Table 1	<b>523,100</b>	<b>525,890</b>	<b>536,875</b>	<b>547,410</b>	<b>560,614</b>	<b>2,693,889</b>
20.70	<b>Longfall (Shortfall)</b>		<b>-10,952</b>	<b>7,363</b>	<b>8,525</b>	<b>6,326</b>	<b>-10,774</b>	<b>489</b>