

Bonneville

**TABLE 1.1
TRANSMISSION LINES
(As of September 30, 1998)**

BPA's List of Facilities is accompanied with a narrative description of Facilities Included in RTO West and a description of those Facilities Not Included in RTO West

Transmisison Lines Included in RTO West for Control and Pricing			
Line#	Line Name	Circuit Miles	Notes
EASTERN INTERTIE			
50085	Townsend-Garrison		
SOUTHERN INTERTIE			
50004	Alvey-Dixonville		
50012	Buckley-Summer Lake		
50016	Captain Jack-Olinda		
50025	Dixonville-Meridian		
50037	Grizzly-Malin		
50043	John Day-Grizzly #1		
50044	John Day-Grizzly #2		
23111	Big Eddy-Celilo		
50013	Big Eddy-Celilo #3		
50014	Big-Eddy-Celilo #4		
75020	Celilo-Sylmar		
50039	John Day-Big Eddy #1		
NETWORK			
11605	Aberdeen Tap		
11601	Adair Tap		
11782	Addy Loop		
23120	Addy-Cusick		
11507	Albany-Burnt Woods		
11503	Albany-Eugene		
11501	Albany-Lebanon		
11705	Alderwood Tap		
3345	Almira Tap		
23002	Alvey-Lane		
23003	Alvey-Reston		
11602	Alvey-Springfield		
23004	Anaconda-Silver Bow		
23006	Ashe Tap		
50006	Ashe-Hanford		
50007	Ashe-Slatt		
23106	Ashe-White Bluffs		
11606	Badger Canyon Loop		
11609	Badger Canyon-Reata		
23009	Bandon-Gold Beach #2		
11510	Bandon-Port Orford		
11516	Bayshore Tap		

BPA

23010	Bell-Boundary #1		
23019	Bell-Boundary #2		
23128	Bell-Boundary #3		
11586	Bell-Colville		
23074	Bell-Hot Springs		
23014	Bellingham-Custer-Blaine		
11588	Bell-Trentwood #1		
11589	Bell-Trentwood #2		
11607	Benton-DOE451B		
11518	Benton-FFTF		
11541	Benton-Franklin #1		
11611	Benton-Franklin #2		
11613	Benton-Richland		
11612	Benton-Scootney		
23017	Big Eddy-Chenoweth #1		
23018	Big Eddy-Chenoweth #2		
11610	Big Eddy-DeMoss		
50010	Big Eddy-Keeler		
23015	Big Eddy-Maupin		
34511	Big Eddy-McLoughlin		
23016	Big Eddy-Midway		
28775	Big Eddy-Oregon City		
28711	Big Eddy-Troutdale		
6910	Boardman-lone		
11512	Bonnors Ferry-Troy		
23013	Bonneville-No. Bonneville #3		
11514	Bonneville-No. Bonneville #4		
11515	Bonneville-The Dalles		
11517	Bonneville-Vancouver #5,6		
11614	Box Canyon Tap		
50012	Buckley-Summer Lake		
11520	Camas Tap		
13802	Canal Tap		
23157	Canby Tap		
11620	Cardwell-Cowlitz		
23008	Carlton-McMinnville		
23007	Carlton-Tillamook		
11616	Carson Tap		
23121	Cathlamet-Naselle		
6911	Chehalis-Centralia #1		
6912	Chehalis-Centralia #2		
23021	Chehalis-Covington		
11523	Chehalis-Longview		
23023	Chehalis-Mayfield		
23022	Chehalis-Olympia		
11545	Chehalis-Raymond		
23131	Chemawa-Salem		
11621	Chemawa-Salem #1		
11720	Cheney Tap		
11623	Chenoweth-Harvey #1,2		
23042	Chief Joseph-East Omak #1,2		
50021	Chief Joseph-Monroe		

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50022	Chief Joseph-Sickler		
34521	Chief Joseph-Sultan #3,4		
6913	Coburg Tap		
11629	Columbia Falls-Trego		
23026	Columbia-Coulee		
11526	Columbia-Ellensburg		
11625	Columbia-Valhalla #1		
11626	Columbia-Valhalla #2		
11572	Colville-Metaline Falls		
11627	Colville-Republic		
11721	Connell Tap		
11527	Cottage Grove-Drain		
11528	Cougar-Wilakenzie (PARTIALLY INCLUDED)		
23025	Covingtn-Duwamish-Creston		
23028	Covingtn-Grand Coulee		
28720	Covington-Columbia #3		
34576	Covington-Maple Valley		
23020	Covington-Maple Valley #1		
3320	Creston-Davenport		
6914	Creswell Tap		
50019	Custer-Ingledow #1		
50020	Custer-Ingledow #2		
23029	Custer-Intalco #1,2		
11726	Davis Creek Tap		
11632	DeMoss-Fossil		
11730	Dorena Tap		
23033	Driscoll-Clatsop		
11731	Dworshak P.H.-Orofino		
50030	Dworshak-Hot Springs		
11781	East Ellensburg Tap		
23095	East Omak-Tonasket		
11793	Elbe Tap		
11729	Eltopia Tap		
11555	Eugene-Alvey #1		
11556	Eugene-Alvey #2		
11534	Eugene-Mapleton		
23041	Fairmount-Port Angeles #1		
11736	Fairmount-Port Angeles #2		
11737	Fairview-Bandon #1		
11598	Fairview-Bandon #2		
23136	Fairview-Bandon #3		
23135	Fairview-Rogue		
11734	Fidalgo-Lopez		
11733	Filbert Tap		
11637	Florence Tap		
11537	Forest Grove-McMinnville		
11636	Forest Grove-Tillamook		
11738	Foster Tap		
11635	Four Lakes Tap		
11786	Franklin-Badger Canyon		
11641	Franklin-Hedges		
11638	Franklin-Riverview		

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11565	Franklin-Walla Walla		
11739	Franz Holmes Tap		
50084	Garrison-Taft		
16101	Goshen-Drummond		
11531	Grand Coulee-Bell #1		
11532	Grand Coulee-Bell #2		
23035	Grand Coulee-Bell #3,4		
23036	Grand Coulee-Bell #5		
11539	Grand Coulee-Brewster		
50033	Grand Coulee-Chief Joseph		
23037	Grand Coulee-Chief Joseph #1,2		
50055	Grand Coulee-Hanford #1		
11735	Grand Coulee-Okanogan #2		
50032	Grand Coulee-Raver		
11540	Grandview-Richland		
11538	Green Bluff Tap		
11634	Green Peter-Lebanon (PARTIALLY INCLUDED)		
11740	Hanford Tap #2		
11558	Hanford-Benton		
50041	Hanford-John Day		
50052	Hanford-Ostrander		
11658	Hatton Tap		
50036	Hatwai-Dworshak		
13851	Hay Mill Tap		
11656	Hedges Tap #2		
13853	Heyburn-Haymill		
11671	Highlands-Franklin		
11542	Holcomb-Naselle		
11697	Horn Rapids Tap		
23139	Hot Springs-Anaconda		
23039	Hot Springs-Anaconda		
23040	Hungry Horse-Hot Springs		
11543	Hungry Horse-Kalispell		
11639	Ice Harbor-Franklin #1&2		
50040	John Day-Big Eddy #2		
50042	John Day-Marion		
11546	Kalispell-Kerr		
11645	Keeler Tap #1		
11646	Keeler Tap #2		
50045	Keeler-Allston		
11513	Keeler-Forest Grove #1		
11644	Keeler-Forest Grove #2		
11748	Keeler-Pennwalt		
23183	Keller Tap		
23082	Kelso-Chehalis		
23046	Kelso-Longview Loop		
11548	Kennewick Tap		
11655	Kitsap-Fairmount-Bangor		
23047	Lane-Wendson		
11743	Lapine-Fort Rock		
11686	Latham Tap		
11746	Libby (PPL)-Libby		

BPA

23043	Libby Tap		
50029	Little Goose-Lower Granite #1		
50038	Little Goose-Lower Granite #2		
23105	Longview-Allston #3		
11575	Longview-Astoria		
23045	Longview-Chehalis #3		
11549	Longview-Cowlitz		
23146	Longview-Driscoll		
11648	Lookout Point-Alvey #1		
11649	Lookout Point-Alvey #2		
23148	Lost River-Round Valley		
50034	Lower Granite-Hatwai		
50062	Lower Monumental-Ashe		
50047	Lower Monumental-Hanford		
50046	Lower Monumental-John Day		
50091	Lower Monumental-Little Goose #1		
50053	Lower Monumental-Little Goose #2		
11745	Lynch Creek Tap		
11747	Macks Inn-Madison		
23156	Malin-Warner		
11550	Mapleton-Reedsport		
50051	Marion-Alvey		
50050	Marion-Lane		
50056	Marion-Santiam		
28758	Maupin-Detroit #1		
23059	Maupin-Redmond		
6953	Maupin-Tygh Valley		
11741	McCullough Tap		
50059	McNary Loop		
11787	McNary-Badger Canyon		
23055	McNary-Big Eddy		
23056	McNary-Franklin #2		
28751	McNary-Maupin #1		
28752	McNary-Maupin #2		
11552	McNary-Richland		
34551	McNary-Ross		
23057	McNary-Roundup		
28730	McNary-Santiam #,2		
11553	Midway-Benton		
23088	Midway-Benton #2		
23054	Midway-Eagle Lake		
23050	Midway-Grand Coulee #1		
23052	Midway-Grand Coulee #3		
11554	Midway-Grandview		
11551	Midway-Moxee		
1351	Midway-Riverland		
23053	Midway-Vantage		
6951	Milton Tap		
13850	Minidoka P.H.-Unity		
3351	Minidoka Project		
50075	Monroe-Custer #1		
50048	Monroe-Custer #2		

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34550	Monroe-Sammamish		
23058	Monroe-Snohomish #1,2		
50054	Monroe-Snoking		
23044	Mossy Rock-Chehalis		
11595	Moxee-Ellensburg		
11557	Moxee-Roza		
23154	Mt. Vernon Tap		
11654	Naselle-Long Beach #1		
11657	Naselle-Long Beach #2		
23163	Newberg-Carlton-Sherwood		
11559	Newport-Sandpoint		
23060	No. Bonneville-Midway #1		
23061	No. Bonneville-Midway #2		
23062	No. Bonneville-Ross #1		
23063	No. Bonneville-Ross #2		
23077	No. Bonneville-Troutdale #1,2		
23160	Noxon-Conkelley		
11647	Oakridge-Lookout Point		
11661	Olympia-Aberdeen		
23068	Olympia-Aberdeen #2		
23168	Olympia-Aberdeen #3		
11560	Olympia-Cosmopolis		
23155	Olympia-Fairmount #1,4		
28755	Olympia-Grand Coulee		
23065	Olympia-Kitsap #3		
11563	Olympia-Shelton #1		
11564	Olympia-Shelton #2		
23066	Olympia-White River-Covington		
11561	Oregon City-Chemawa #1		
11562	Oregon City-Chemawa #2		
50061	Oregon City-Marion		
23067	Oregon Cty-Chemawa #3		
50063	Ostrander-McLoughlin		
50060	Ostrander-Troutdale		
11663	Palisades-Goshen #1		
11668	Palisades-Goshen #2		
50065	Paul-Allston #1		
50064	Paul-Allston #2		
50066	Paul-Olympia		
23165	Ponderosa-Pilot Butte		
11662	Port Angeles-Sappho		
11664	Port Orford-Gold Beach		
11764	Priest River Tap		
11665	Prosser Tap		
11766	Rainbow Valley Tap		
11767	Ralston Tap to WWP		
50073	Raver-Covington #1		
50069	Raver-Covington #2		
50070	Raver-Monroe		
50071	Raver-Paul		
11670	Raymond-Cosmopolis		
6972	Raymond-Tide Flats		

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11674	Raymond-Willapa River		
11669	Redmond-Burns-Harney		
23071	Redmond-Yamsey		
11597	Reedsport-Fairview		
23080	Reston-Fairview #1		
23087	Reston-Fairview #2		
28771	Rocky Reach-Columbia		
34566	Rocky Reach-Maple Valley		
13801	Roe's Corner Tap		
11505	Ross-Alcoa #1,2		
23171	Ross-Alcoa #3,4		
11506	Ross-Alcoa #3,4		
11582	Ross-Carborundum		
23081	Ross-Kelso		
23072	Ross-St. Johns #1,2		
11584	Ross-Vancouver Shipyard		
23070	Roundup-La Grande		
50079	Sacajawea Tap		
11778	Sacheen-Albeni Falls		
11578	Salem-Albany #1		
11579	Salem-Albany #2		
11574	Salem-Alumina Tap		
11583	Salem-Tillamook		
34577	Sammamish-Maple Valley		
2376	San Juan Is. Service		
23196	Sandpoint-Bonniers Ferry		
11596	Sandpoint-Bonniers Ferry		
23083	Santiam-Albany		
23049	Santiam-Alvey #1		
28777	Santiam-Alvey #2		
23084	Santiam-Chemawa		
23175	Santiam-Toledo		
50077	Satsop-Paul		
11773	Schrag Tap		
11681	Scooteny-Eagle Lake		
23177	Sedro Wooley Tap		
11569	Shelton-Fairmount #1		
11679	Shelton-Fairmount #2		
23093	Shelton-Kitsap #4		
11508	Shelton-Kitsap-Bremerton		
50072	Sickler-Raver #1		
23174	Sifton Loop		
11683	Sifton-Fishers Road		
6915	Silver Creek-Leonard Road		
6952	Silver Creek-Morton		
50074	Slatt-Marion		
23097	Snohomish-Beverly Park		
11593	Snohomish-Beverly Park #1		
11594	Snohomish-Beverly Park #2		
11677	Snohomish-Beverly Park #3,4		
23076	Snohomish-Bothel #1		
23176	Snohomish-Bothel #2		

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23075	Snohomish-Murray-Bellingham		
23078	South Tacoma Tap #1		
23178	South Tacoma Tap #2		
11675	Spearfish Tap		
11590	Spirit Lake-Athol		
23079	St. Johns-Keeler		
11774	St.Johns-Longview		
11576	St.Johns-Oregon City #1,2		
11577	St.Johns-Oregon City #2		
34575	Sultan-Snohomish		
11775	Sun Harbor Tap		
11770	Swan Valley-Teton		
28778	Tacoma-Covington 3 4		
50076	Tacoma-Raver		
50083	Taft-Bell		
11685	Tahkenitch-Gardiner		
11776	Targhee Tap		
11779	Taylor Flats Tap		
11570	The Dalles-Goldendale		
11676	Timber Tap		
23085	Toledo-Wendson		
11573	Trentwood-Valley Way		
23180	Trojan-Allston #1,2		
11777	Underwood Tap		
13875	Unity-Heyburn		
13876	Unity-West Burley		
50080	Vantage-Raver #1		
11682	Vera Tap		
11585	Wagner Lake Tap		
11591	Walla Walla-Lewiston		
11690	Walla Walla-Milton Freewater		
6991	Walla Walla-Pendleton		
11694	Walnut City Tap		
23005	Wendson-Tahkenitch		
11693	Westport-Cathlamet		
11695	White Bluffs Loop		
23096	White Bluffs-451B		
11696	White Bluffs-Horn Rapids		
11691	Winthrop Tap		

**TABLE 2.1
SUBSTATIONS
(As of September 30, 1998)**

Substations Included in RTO West for Control and Pricing			
	Name of Substation		
Eastern Intertie			
43925	Garrison		
Southern Intertie			
22006	Alvey		
23310	Bakeoven		
22810	Buckley		
21813	Captain Jack		
10917	Chief Joseph		
21015	Dixonville		
21930	Fort Rock Caps.		
21630	Grizzly		
22837	John Day		
21845	Malin		
21542	Meridian		
20970	Sand Springs Caps.		
21960	Summer Lake		
21972	Sycan Cap. Stn.		
23311	Big Eddy		
23316	Celilo		
22836	John Day		
Network			
11405	Aberdeen		
20205	Adair		
13305	Addy (PARTIALLY INCLUDED)		
22205	Albany (PARTIALLY INCLUDED)		
30905	Albeni Falls (PARTIALLY INCLUDED)		
10605	Alcoa (PARTIALLY INCLUDED)		
20505	Allston		
22005	Alvey		
41205	Anaconda		
10307	Angus		
10311	Ashe (PARTIALLY INCLUDED)		
10317	Badger Canyon		
20612	Bandon (PARTIALLY INCLUDED)		
12311	Belfair		
13271	Bell (PARTIALLY INCLUDED)		
13712	Bellingham		
10315	Benton		

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23311	Big Eddy (PARTIALLY INCLUDED)	
22510	Boardman	
31111	Bonnets Ferry (PARTIALLY INCLUDED)	
12611	Boundary	
31611	Bridge	
22710	Brush College	
22810	Buckley	
31651	Burley	
52520	Canby	
10816	Cardwell	
23615	Carlton	
52525	Cedarville Junction	
12114	Centralia	
12115	Chehalis	
22415	Chemawa	
23315	Chenoweth	
10917	Chief Joseph (PARTIALLY INCLUDED)	
20416	Clatsop	
10915	Columbia	
41516	Columbia Falls	
13316	Colville	
41517	Conkelley (PARTIALLY INCLUDED)	
11415	Cosmopolis	
11715	Covington	
10815	Cowlitz (PARTIALLY INCLUDED)	
12615	Cusick	
13715	Custer	
22821	Demoss	
21025	Drain (PARTIALLY INCLUDED)	
20417	Driscoll	
32220	Drummond	
31820	Dworshak (PARTIALLY INCLUDED)	
12421	East Omak	
11778	Echo Lake	
11925	Ellensburg	
11427	Elma	
22025	Eugene	
11631	Fairmount	
20632	Fairview	
12931	Fidalgo	
41530	Flathead	
22032	Florence (PARTIALLY INCLUDED)	
23432	Forest Grove (PARTIALLY INCLUDED)	
23531	Fossil	
10916	Foster Creek	
11131	Franklin (PARTIALLY INCLUDED)	
23030	Freewater (PARTIALLY INCLUDED)	
43925	Garrison	
20831	Gold Beach	
12034	Goldendale	
12433	Goose Lake	
30631	Goshen	

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13931	Grandview (PARTIALLY INCLUDED)	
10331	Hanford (PARTIALLY INCLUDED)	
10520	Happy Valley	
21330	Harney	
23031	Hat Rock	
33530	Hatwai	
13230	Hayford	
33432	Heyburn	
10332	Highlands	
12531	Holcomb	
21431	Hood River	
10333	Horse Heaven	
44531	Hot Springs	
13735	Intalco (PARTIALLY INCLUDED)	
22836	John Day (PARTIALLY INCLUDED)	
41535	Kalispell	
23435	Keeler	
10335	Kennewick	
42435	Kerr	
11835	Kitsap	
23141	La Grande	
22043	Lane	
20941	Lapine	
22241	Lebanon	
10341	Ledbeder	
11140	Levey	
10835	Lexington	
42742	Libby (PARTIALLY INCLUDED)	
13841	Little Goose (PARTIALLY INCLUDED)	
12441	Lone Pine	
10841	Longview (PARTIALLY INCLUDED)	
21041	Lookingglass	
22041	Lookout Point (PARTIALLY INCLUDED)	
12840	Lopez Island (PARTIALLY INCLUDED)	
31240	Lost River	
11240	Lower Granite (PARTIALLY INCLUDED)	
13641	Lower Monumental (PARTIALLY INCLUDED)	
41650	Madison	
21845	Malin	
11746	Maple Valley	
22445	Marion	
22044	Martin Creek	
12346	Mason	
23345	Maupin	
20361	McLoughlin	
23646	McMinnville (PARTIALLY INCLUDED)	
23046	McNary (PARTIALLY INCLUDED)	
12645	Metaline Falls	
10345	Midway	
13145	Monroe	
12141	Morton	
13945	Moxee	

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13146	Murray		
12552	Naselle		
12451	Nespelem		
20650	No. Brooking		
12036	No. John Day Caps.		
13051	North Bonneville (PARTIALLY INCLUDED)		
13455	Olympia		
23455	Oregon City		
20356	Ostrander		
43960	Ovando		
22062	Parker		
12160	Paul C.W.		
12161	Pe Eell		
20355	Pearl 500 kV		
23061	Pendleton (PARTIALLY INCLUDED)		
11262	Pomeroy (PARTIALLY INCLUDED)		
20760	Ponderosa		
10561	Port Angeles		
11363	Potholes		
11766	Raver		
12565	Raymond (PARTIALLY INCLUDED)		
10367	Reata		
20965	Redmond		
21065	Reedsport (PARTIALLY INCLUDED)		
21066	Reston		
10365	Richland		
10967	Rocky Reach		
20865	Rogue		
10651	Ross		
31965	Round Valley		
23065	Roundup		
13690	Sacajewea (PARTIALLY INCLUDED)		
12690	Sacheen (PARTIALLY INCLUDED)		
22771	Salem		
30971	Sandpoint (PARTIALLY INCLUDED)		
22271	Santiam (PARTIALLY INCLUDED)		
10570	Sappho		
11470	Satsop		
11965	Schultz		
12371	Shelton		
10970	Sickler		
10670	Sifton		
44771	Silver Bow		
12170	Silver Creek		
21120	Slatt		
13171	Snohomish		
13173	Snoking		
11472	South Elma		
12772	South Tacoma		
31973	Spar Canyon		
12071	Spearfish		
13274	Springhill		

BPA

22671	St. Johns		
10371	Stevens Drive		
21960	Summer Lake		
31071	Swan Valley (PARTIALLY INCLUDED)		
12775	Tacoma (PARTIALLY INCLUDED)		
43175	Taft		
21075	Tahkenitch		
34175	Targhee		
62075	Teton		
10375	Thayer Drive		
23375	The Dalles (PARTIALLY INCLUDED)		
22976	Tillamook (PARTIALLY INCLUDED)		
61230	Tincup-Lower Valley		
22175	Toledo		
42776	Trego (PARTIALLY INCLUDED)		
13275	Trentwood (PARTIALLY INCLUDED)		
22675	Troutdale (PARTIALLY INCLUDED)		
12698	USK		
10485	Valhalla (PARTIALLY INCLUDED)		
11385	Vantage		
13691	Walla Walla (PARTIALLY INCLUDED)		
52590	Warner		
20494	Wauna		
22090	Wendson		
31692	West Burley		
31090	Westside		
10390	White Bluffs		
20292	Wren		
32918	Brinckens Corner		
	34.5 kV Facilities in Network		
22005	Alvey		
31611	Bridge		
41516	Columbia Falls		
41516	Columbia Falls		
31626	East Hills (PARTIALLY INCLUDED)		
22025	Eugene		
41530	Flathead		
13931	Grandview		
41535	Kalispell		
41535	Kalispell		
22045	Mapleton (PARTIALLY INCLUDED)		
30971	Potlach (PARTIALLY INCLUDED)		
11171	Scooteney		
13905	Alfalfa		
13816	Clarkston		
12215	Creston		
22022	Dorena		
31640	Idahome		
12235	Irby		
22035	Junction City		
11040	Keller		
12255	Odessa		

BPA

30910	Priest River		
11065	Republic		
23475	Timber		
12290	Wagner Lake		
20592	Warren		
20612	Bandon		
13221	Deer Park (PARTIALLY INCLUDED)		
10165	Ritzville (PARTIALLY INCLUDED)		

Idaho Power Company
RTO LINE LIST

5/25/01

Lines Included In RTO Pricing						
Lines Included For RTO Control			Lines NOT Included For RTO Control			
Operating Voltage	Line Name	Circuit Miles	Operating Voltage	Line Name	Circuit Miles	
115 kV	Hines-Harney	3.41				
138 kV	American Falls-Adelaide 1	42.04		Idaho Power has no lines in for pricing but not control.		
	Caldwell-Ontario	30.60				
	Minidoka Loop	3.08				
	Ontario-Quartz	73.61				
	American Falls-Adelaide 2	41.82				
	American Falls-Brady	0.38				
	Quartz-West John Day	67.45				
	Adelaide-Hunt	30.36				
161 kV	Goshen-State Line	90.44				
230 kV	Quartz-LaGrande	46.42				
	Midpoint-Hunt	17.83				
	Brady-Antelope	56.49				
	Brady-Treasureton Tie	0.11				
	Kinport-Brady 1&2	36.22				
	Bridger-Pt of Rocks	1.40				
	Brownlee-Paddock (new line)	51.86				
	Bridger-Pt of Rocks	2.78				
	Boise Bench-Caldwell	38.21				
	Brownlee-Hells Canyon	38.85				
	Boise Bench-Midpoint 1	109.33				
	Brownlee-Quartz Jct.	43.17				
	Brownlee-Boise Bench 1&2	200.18				
	Paddock-Ontario	20.92				
	Oxbow-Brownlee	10.44				
	Boise Bench-Midpoint 2	105.36				
	Oxbow-Palette Jct.	20.14				
	Palette Jct.-Imnaha	24.57				
	Imnaha-Divide	20.23				
	Hells Canyon-Palette Jct.	8.27				
	Brownlee-Boise Bench 3&4	205.12				
	Boise Bench-Midpoint 3	106.65				
	Palette Jct.-Enterprise	29.62				
	Borah-Brady 2	4.02				
	Borah-Brady 1	3.96				
	Dalreed-Boardman	1.67				
345 kV	Bridger-Goshen	225.88				
	State Line-Midpoint (HBLT line)	76.15				
	Kinport-Borah	27.30				
	Midpoint-Borah	85.44				
	Midpoint-Borah 1	79.55				
	Midpoint-Borah 2	77.97				
	Adelaide Tap	3.60				
500 kV	Boardman-Slatt	1.78				

Idaho Power has included no distribution lines (<46 kV) in the RTO for either pricing or control.

Montana Power Company

RTO LINES

Montana Power Company currently plans to include for pricing in RTO West all of its facilities currently classified as transmission under the FERC standard system of accounts and included in its current FERC OATT rates.

The facilities MPC plans to turn over to RTO West for control are those facilities at voltages of 230 kV and 500 kV. One exception is a 230 kV line in the Billings area that is used exclusively for local area load service.

MPC may also turn over for control certain 161 kV lines that are interconnection facilities between MPC and other transmission owners.

NEVADA POWER COMPANY

RTO LINE LIST

Transmisison Lines Included in RTO West for Control and Pricing			
Line#	Line Name	Voltage kV	Notes
	CRYSTAL / MCCULLOUGH	500	
	MOHAVE / ELDORADO	500	
	NAVAJO / CRYSTAL	500	
	REDBUTTE / HARRY ALLEN PS	345	
	ARDEN / AVERA	230	
	ARDEN / TOLSON	230	
	AVERA / BELTWAY	230	
	BELTWAY / N WEST	230	
	CLARK E / BASIC	230	
	CLARK W / BASIC	230	
	CRYSTAL PS / CRYSTAL#2	230	
	CRYSTAL PS / CRYSTAL#3	230	
	CRYSTAL / HARRY ALLEN#2	230	
	CRYSTAL / HARRY ALLEN#3	230	
	DECATUR / ARDEN	230	
	DECATUR / WESTSIDE	230	
	ELDORADO / MEAD#1	230	
	ELDORADO / MEAD#2	230	
	FAULKNER / CLARK 6	230	
	FAULKNER / WINTERWOOD	230	
	HARRY ALLEN / N WEST	230	
	HARRY ALLEN / PECOS#1	230	
	HARRY ALLEN / PECOS#2	230	
	HARRY ALLEN / PECOS#3	230	
	IRON MOUNTAIN / N WEST	230	
	MCCULLOUGH / ARDEN	230	
	MCCULLOUGH / FAULKNER	230	
	MEAD / DECATUR	230	
	MEAD / FAULKNER	230	
	N WEST / WESTSIDE	230	
	PECOS / IRON MOUNTAIN	230	
	REID GARDNER / HARRY ALLEN #1	230	
	REID GARDNER / HARRY ALLEN #2	230	
	TOLSON / MCCULLOUGH	230	

NPC

ARDEN / HAVEN	138	
ARTESIAN / MAYFAIR	138	
ARTESIAN / PECOS	138	
ARTESIAN / WINTERWOOD	138	
AVERA / QUAIL	138	
BELLAGIO TAP2 / CAESARS TAP1	138	
BELTWAY / SUMMERLIN	138	
CAESARS TAP2 / CLAYMONT	138	
CHEYENNE / BELTWAY	138	
CHEYENNE / EL CAPITAN	138	
CLARK / CABANA	138	
CLARK / GREEN VALLEY	138	
CLARK / RUSSELL	138	
CLARK / SPENCER#1	138	
CLARK / SPENCER#2	138	
CLARK / WARMSPRINGS	138	
CLAYMONT / CLARK	138	
CLAYMONT / RUSSELL	138	
CLAYMONT / SPENCER	138	
CLAYMONT / SUZANNE	138	
COMMERCE / SHADOW	138	
CRAIG / LV COGEN	138	
CRAIG / PECOS	138	
DECATUR / POLARIS	138	
DECATUR / VENETIAN TAP1	138	
DURANGO / DECATUR	138	
DURANGO / PEACE	138	
DURANGO / WESTSIDE	138	
EL CAPITAN / N WEST	138	
FAULKNER / WIGWAM	138	
FORD / PEBBLE	138	
GARCES / COMMERCE	138	
HAVEN / FORD	138	
HAVEN / S1 TAP1	138	
HUALAPAI / WESTSIDE	138	
I-15 CENT / NCA1	138	
IRON MOUNTAIN / SKELTON	138	
LORENZI / PECOS	138	
LORENZ / TENAYA	138	
LV COGEN / HIGHLAND	138	
MCDONALD / QUAIL	138	
MICHAEL WAY / LEAVIT	138	
MILLER / PECOS	138	
NCA1 / APEX	138	

NPC

PEACE / AVERA	138	
PEBBLE / TOLSON	138	
PEBBLE / WILSON	138	
PECOS / I-15 CENT	138	
PECOS / SHADOW	138	
PECOS / WASHBURN	138	
POLARIS / BELLAGIO TAP1	138	
SAGUARO / WARMSPRINGS	138	
SPENCER / GARCES	138	
SUMMERLIN / HUALAPAI	138	
SUNRISE / WINTERWOOD #1	138	
SUNRISE / WINTERWOOD #2	138	
TENAYA / WESTSIDE	138	
TOLSON / ARDEN	138	
VEGAS / CHEYENNE	138	
VENETIAN TAP2 / SUZANNE	138	
WARMSPRINGS / FAULKNER	138	
WASHBURN / LEAVIT	138	
WESTSIDE / VEGAS	138	
WIGWAM / GREEN VALLEY	138	
WILSON / FAULKNER	138	
WINTERWOOD / CABANA	138	
WINTERWOOD / SAN FRANCISCO	138	
ALTA / MICHAEL WAY	69	
ALTA / SHADOW	69	
ALTA / WESTSIDE	69	
ARDEN / OQUENDO	69	
ARTESIAN / MAYFAIR	69	
ARTESIAN / N. LAS VEGAS	69	
ARTESIAN / OLIVE TAP	69	
APEX / APEX TAP	69	
APEX / SHREDDER	69	
AWT TAP / LINDQUIST	69	
AWT TAP / WINTERWOOD	69	
BALBOA TAP 1 / BMI TAP	69	
BALBOA TAP 1 / PP3 TAP	69	
BALBOA TAP2 / CLARK E	69	
BALBOA TAP2 / MISSION TAP	69	
BOULDER BEACH TAP1 / MEAD NPC	69	
BOULDER BEACH TAP2 / MEAD NPC	69	
BOULDER BEACH TAP3 / MEAD NPC	69	
BRINETAP / WATER STREET	69	
CAREY / DEBUONO	69	

NPC

CAREY / N LAS VEGAS	69	
CAREY / WASHINGTON	69	
CLARK 6904 / CLARK E	69	
CLARK 6907 / CLARK E	69	
CLARK 6911 / CLARK W	69	
CLARK 6912 / CLARK W	69	
CLARK E / BRINE TAP	69	
CLARK E / HAC PP	69	
CLARK W / FLAMINGO	69	
CLARK W / GREEN VALLEY TAP	69	
CLARK W / PAWNEE	69	
CLARK W / WATER STREET	69	
CONCOURSE / N SPENCER	69	
DEBUONO / PP6 TAP	69	
DECATUR E / OQUENDO	69	
DECATUR E / SPRING VALLEY TAP	69	
DECATUR E / DECATUR W	69	
DECATUR / VALLEY VIEW	69	
DECATUR W / LINDELL	69	
DECATUR W / TAM	69	
EXCALIBUR / OQUENDO	69	
FLAMINGO / MGM	69	
FLAMINGO / SPENCER S	69	
FLAMINGO / VALLEY VIEW	69	
GARCES / LEWIS	69	
GARCES / MAYFAIR	69	
GARCES / TRUMAN TAP	69	
GREEN VALLEY / CONCOURSE	69	
HIGHLAND / LYNNWOOD	69	
HIGHLAND / TRUMAN	69	
LAMB / HAC PP	69	
LAMB / PEARL	69	
LEAVITT / BOULDER BEACH	69	
LEWIS / SHADOW	69	
LINDQUIST / LEAVITT	69	
LYNNWOOD / SAN FRANCISCO S	69	
MAYFAIR / SAN FRANCISCO N	69	
MEAD A / MEAD NPC	69	
MEAD B / MEAD NPC	69	
MGM / EXCALIBUR	69	
MICHAEL WAY / RAINBOW	69	
MICHAEL WAY / TONOPAH	69	
MILLER / N LAS VEGAS	69	
MILLER / TONOPAH	69	

NPC

MISSION TAP / PP TAP B	69	
NCA2 / PABCO	69	
NELLIS / CAREY	69	
OLIVE / PRINCE	69	
PABCO / CAREY	69	
PAWNEE / SAN FRANCISCO S	69	
PEARL / SAN FRANCISCO N	69	
PP TAP A / BOULDER BEACH TAP 1	69	
PP TAP A / BMI TAP	69	
PP TAP B / BOULDER BEACH TAP 2	69	
PP TAP B / PP2A-2	69	
PP 3 TAP / WINTERWOOD	69	
PP 6 / SLOAN TAP2	69	
PRINCE / WINTERWOOD	69	
RAINBOW / WESTSIDE	69	
ROSANNA / LINDELL	69	
ROSANNA / WESTSIDE	69	
SAHARA / SAN FRANCISCO N	69	
SAHARA / WINTERWOOD	69	
SAN FRANCISCO /SPENCER N	69	
SHREDDER / NELLIS	69	
SPRING VALLEY / WESTSIDE	69	
SUNRISE / WINTERWOOD #1	69	
SUNRISE / WINTERWOOD #2	69	
SURGE WATER / CLARK E	69	
SURGE WATER / WINTERWOOD	69	
TAM / HIGHLAND	69	
WINTERWOOD / SLOAN TAP1	69	
WINTERWOOD / WASHINGTON	69	

Substations Included in RTO West for Control and Pricing			
	Transmission Transformers Name of Substation		
	CRYSTAL	500/230	
	ELDORADO	500/230	
	MCCULLOUGH	500/230	
	HARRY ALLEN	345/230	
	ARDEN	230/138	
	AVERA	230/138	
	C L A R K	230/138	

NPC

	DECATUR	230/138	
	FAULKNER	230/138	
	IRON MOUNTAIN	230/138	
	N WEST	230/138	
	PECOS	230/138	
	TOLSON	230/138	
	WESTSIDE	230/138	
	WINTERWOOD	230/138	
	C L A R K	230/69	
	DECATUR	230/69	
	MEAD	230/69	
	APEX	138/69	
	ARDEN	138/69	
	ARTESIAN	138/69	
	GARCES	138/69	
	HIGHLAND	138/69	
	MICHAEL WAY	138/69	
	MILLER	138/69	
	SAN FRANCISCO	138/69	
	SHADOW	138/69	
	SPENCER	138/69	
	WESTSIDE	138/69	
	WINTERWOOD	138/69	

Substations Included in RTO West for Control and Pricing			
	Phase Shifters Name of Substation		
	CRYSTAL		
	HARRY ALLEN		

RTO Line List

Lines Included In RTO Pricing

Lines Included For RTO Control (Yellow)				Lines NOT Included For RTO Control (White)			
Operating Voltage	Line Name (from...to...)		Circuit Miles	Operating Voltage	Line Name (from...to...)		Circuit Miles
500	Malin, Oregon	Indian Springs., CA	47	138	Naughton Plant, Wyoming	Evanston Substation, WY	56
500	Midpoint, Idaho	Malin, Oregon	446	138	Evanston Substation, WY	Anschutz Substation, WY	17
500	Malin, Oregon	Medford, Oregon	83	138	Naughton Plant, Wyoming	Carter Creek Sub., WY	26
500	Centralia Plant #1, WA	BPA Paul, Washington	1	138	Railroad Sub., Wyoming	Carter Creek Sub., WY	26
500	Centralia Plant #2, WA	BPA Paul, Washington	1	138	Painter Substation, WY	Natural Gas Sub., WY	5
500	Alvey Sub, Oregon	Dixonville Sub, Oregon	58	138	Grace Plant, Idaho	Soda Plant, Idaho	6
500	Malin, Oregon	Captain Jack, OR	7	138	Oneida Plant, Idaho	Ovid Substation, Idaho	23
500	Dixonville, Oregon	Meridian, OR	74	138	Antelope Substation, ID	Scoville Sub., Idaho	1
345	Ben Lomond Sub., Utah	Borah Substation, Idaho	134	138	Soda Plant, Idaho	Monsanto Sub., Idaho	7
345	Ben Lomond Sub., Utah	Terminal Substation, UT	47	138	Caribou Substation, ID	Grace Plant, Idaho	12
345	Spanish Fork Sub., Utah	Camp Williams Sub., Utah	35	138	Caribou Substation, ID	Becker Substation, Idaho	5
345	Huntington Plant, Utah	Sigurd Substation, Utah	86	138	Treasureton Sub., Idaho	Franklin Sub., Idaho	10
345	Huntington Plt. Sub., UT	Spanish Fork Sub., Utah	78	138	Franklin Substation, ID	Smithfield Sub., Utah	21
345	Terminal Substation, UT	Ninety South Sub., Utah	15	138	Terminal Substation, UT	Kennecott Sub., Utah	11
345	Emery Substation, Utah	Sigurd Substation, Utah	68	138	Terminal Substation, UT	30 South Switch Rack, UT	7
345	Sigurd Substation, Utah	Camp Williams Sub., Utah	116	138	Wheelon Substation, Utah	American Falls Sub., ID	82
345	Camp Williams Sub., Utah	Ninety South Sub., Utah	8	138	Cutler Plant, Utah	Wheelon Substation, Utah	0
345	Terminal Substation, UT	Camp Williams Sub., Utah	25	138	Terminal Substation, UT	Helper Substation, Utah	116
345	Emery Substation, Utah	Camp Williams Sub., Utah	86	138	Hale Plant, Utah	Nebo Substation, Utah	48
345	Newcastle, Utah	Utah - Nevada Border	54	138	Carbon Plant, Utah	Helper Substation, Utah	2
345	Sigurd Substation, Utah	Newcastle, Utah	137	138	Terminal Substation, UT	Tooele Substation, Utah	23
345	Goshen Substation, Idaho	Kinport Substation, ID	41	138	Wheelon Substation, Utah	Smithfield Sub., Utah	18
345	Huntington Plant, Utah	Four Corners Sub., NM	55	138	Helper Substation, Utah	Moab Substation, Utah	115
345	Camp Williams Sub., Utah	Huntington Plant, Utah	152	138	Ninetieth South Sub, Utah	Carbon Plant, Utah	72
345	Huntington Plant, Utah	Pinto Substation, Utah	156	138	Terminal Substation, UT	Ninetieth South Sub, Utah	16
345	Camp Williams Sub., Utah	Sigurd Substation, Utah	111	138	30 South Switch Rack, UT	McClelland Sub., Utah	6
345	Jim Bridger Plant #3, WY	Borah Substation, Idaho	240	138	Moab Substation, Utah	Pinto Substation, Utah	58
345	Jim Bridger Plant #2, WY	Kinport Substation, ID	234	138	Pinto Substation, Utah	Abajo, UT	44
230	Fairview, Oregon	Isthmus, Oregon	12	138	Carbon Plant, Utah	Ashley Substation, Utah	91
230	Antelope Sub., Idaho	Lost River 230KV Line, ID	20	138	McClelland Sub., Utah	Cottonwood Sub., Utah	5
230	Walla Walla, Washington	Hells Canyon, ID	72	138	Ashley Substation, Utah	Vernal Substation, Utah	12
230	Bethel, Oregon	Fry, Oregon	26	138	Sigurd Substation, Utah	West Cedar Substation, UT	115
230	Fry, Oregon	Dixonville, Oregon	44	138	Ben Lomond Sub., Utah	El Monte Substation, UT	13
230	Alvey, Oregon	Dixonville, Oregon	59	138	Cottonwood Sub., Utah	Ninetieth South Sub, Utah	11
230	Troutdale, Oregon	Linneman, Oregon	0	138	Terminal Substation, UT	Rowley Substation, Utah	56
230	McNary, Washington	Walla Walla, Washington	56	138	Huntington Plant, Utah	McFadden Substation, UT	7
230	BPA Heppner, Oregon	Dalred Sub., Oregon	0	138	Ben Lomond Sub., Utah	El Monte Substation, UT	6
230	Sigurd Substation, Utah	Garfield, Utah	118	138	Cottonwood Sub., Utah	Silvercreek Sub., Utah	30
230	Dixonville, Oregon	Reston, Oregon	17	138	Ninetieth South Sub, Utah	Taylorville Sub., Utah	7
230	Yamsey, Oregon	Klamath Falls, Oregon	56	138	Gadsby Plant, Utah	McClelland Sub., Utah	4
230	Yamsey, Oregon	Klamath Falls, Oregon	6	138	Ninetieth South Sub, Utah	Oquirrh Substation, Utah	7
230	Dixonville, Oregon	Lone Pine, Oregon	5	138	Nebo, UT	Jerusalem, UT	24
230	Klamath Falls, Oregon	Medford, Oregon	76	138	Ben Lomond Sub., Utah	Western Zircon Sub., UT	14
230	Klamath Falls, Oregon	Malin, Oregon	35	138	Tooele Substation, Utah	Oquirrh Substation, Utah	22
230	Table Rock, SW Station, OR	Grants Pass, Oregon	35	138	Wheelon Substation, Utah	Nucor Steel Sub., Utah	6
230	Grants Pass, Oregon	Days Creek, Oregon	71	138	Nebo Substation, Utah	Martin-Marietta Sub., UT	30
230	Dixonville, Oregon	Dixonville, Oregon	1	138	West Cedar Sub., Utah	Middleton Substation., UT	80
230	Sigurd Substation, Utah	Pavant Substation, Utah	43	138	Gadsby Plant, Utah	Terminal Substation, UT	12
230	Pavant Substation, Utah	Nevada - Utah State line	98	138	Oquirrh Substation, Utah	Kennecott Sub., Utah	4
230	Bannack Pass, Idaho	Antelope Sub., Idaho	76	138	Oquirrh Substation, Utah	Barney Substation, Utah	3
230	Brady Substation, Idaho	Treasureton Sub., Idaho	66	138	West Cedar Sub., Utah	Pepcon Substation, Utah	14
230	Ben Lomond Sub., Utah	Naughton Plt. #1, WY	88	138	Taylorville Substation, Uh	Mid-Valley Substation, Utah	5
230	Buffalo, Wyoming	Gillette, Wyoming	68				
230	Jim Bridger Plant, WY	Point of Rocks, Wyoming	8				
230	Dave Johnston Plant, WY	Yellowcake, Wyoming	69				
230	Wyodak Plant, Wyoming	Sub. Tie Line, Wyoming	0				
230	Jim Bridger Plant, WY	Point of Rocks Ln 2, WY	8				
230	Blue Rim, Wyoming	South Trona, Wyoming	13				
230	Monument, Wyoming	Exxon Plant, Wyoming	13				
230	Firehole, Wyoming	Mansface, Wyoming	2				
230	Firehole, Wyoming	Mansface, Wyoming	10				
230	Rock Springs, Wyoming	Kemmerer, Wyoming	19				
230	Jim Bridger Plant, WY	Mustang Sub., Wyoming	73				
230	Spence Sub., Wyoming	Mustang Sub., Wyoming	77				
230	Rock Springs, Wyoming	Flaming Gorge, Utah	7				
230	Line 59, CA	Copco II, CA	5				
161	Montana-Idaho State line	Grace Plant, Idaho	57				
161	Goshen Substation, Idaho	Rigby Substation, Idaho	29				
161	Goshen Substation, Idaho	Antelope Substation, ID	45				
161	Goshen Substation, Idaho	Sugar Mill Substation, ID	16				
161	Sugar Mill Sub., Idaho	Rigby Substation, Idaho	17				
161	Goshen Substation, Idaho	Bonneville Sub., Idaho	23				
161	Billings, Montana	Yellowtail, Montana	46				
161	Big Grassy Sub., Idaho	Idaho Power Line, ID	0				
161	Rigby Sub., Idaho	Jefferson Roberts, Idaho	18				
138	Grace Plant, Idaho	Terminal Sub.,UT(103-104)	42				
138	Grace Plant, Idaho	Terminal Sub., UT (105)	138				
138	Grace Plant, Idaho	Terminal Sub.,UT(103-104)	110				
115	Cascade	Cascade	65				

PSE

PUGET SOUND ENERGY			
RTO LINE LIST			
Transmission Lines Included in RTO West for Control and Pricing			
Operating Voltage	Line Name	Circuit Miles	Notes
500	3RD AC TRANS LINE		
500	BROADVIEW S Y-TOWNSEND A LINE		
500	BROADVIEW S Y-TOWNSEND B LINE		
500	COLSTRIP 3 TO S.Y.		
500	COLSTRIP 4 TO S.Y.		
500	COLSTRIP S Y-BROADVIEW A LINE		
500	COLSTRIP S Y-BROADVIEW B LINE		
230	COLSTRIP 1 TO S.Y.		
230	COLSTRIP 2 TO S.Y.		
230	BPA B'HAM-SEDRO WOOLLEY(BPA OWNED)		
230	NORTH INTERTIE TRANSM LINE (SKAGIT)		
230	BPA CUSTER-MURRAY (SEDRO TAP)		
230	SEDRO WOOLEY-MARCH PT 230KV LN		
230	SEDRO-SCL BOTHELL		
230	HORSE RANCH TAP OF BPA MONROE-SNOHOMISH #1		
230	BOTHELL-SAMMAMISH		
230	MONROE-SAMMAMISH(+SNOKING TAP)		
230	SAMM-MAPLE VALLEY #1		
230	MAPLE VALLEY - TALBOT #1		
230	MAPLE VALLEY - TALBOT #2		
230	TALBOT - BERRYDALE #3		
230	TALBOT-O'BRIEN #3 230KV LINE		
230	CHRISTOPHER-O'BRIEN #4		
230	BPA COVINGTON-WHITE RIVER NO. 1		
230	TRANSM LINE - WHITE RIVER - OLYMPIA (BPA)		
230	ROCKY REACH-WHITE RIVER		
115	ANDERSON CANYON-BEVERLY LINE		

SPP

SIERRA PACIFIC POWER			
			I - Intertie
	RTO LINE LIST		L - Looped
			R - Radial
Transmission Lines Included in RTO West for Control and Pricing			
Line#	Line Name	Voltage kV	Notes
3419	HUMBOLDT / IDAHO-NV	345	I
3420	VALMY / COYOTECR	345	I
3421	TRACY E / VALMY#2	345	L
3422	TRACY E / VALMY#1	345	L
3423	COYOTECR / HUMBOLDT	345	L
3425	TRACY E / MIRA LMA	345	L
3426	VAL RD N / TRACY E	345	L
3453	VAL RD N/ BORDERTOWN	345	
3450	BORDERTOWN/ HILLTOP	345	
2301	GONDER / PEOE-NEV	230	I
2302	MACHACEK / GONDER	230	I
2306	FRONTIER / MACHACEK	230	I
2307	FRONTIER / ROUND MT	230	I
2307	ROUND MT / ANACONDA	230	I
2308	AUSTIN / FRONTIER	230	I
2309	FT CHUR / AUSTIN	230	I
101	CAL SUB / N TRUCKE	120	I
102	SUMMIT 2 / CAL SUB	120	I
133	N TRUCKE / SUMMIT 1	120	I
135	ANACONDA / MILLERS	120	I
103	VAL RD N / VAL ROAD	120	L
104	VAL ROAD / SPAN SPG	120	L
105	SPAN SPG / TRACY	120	L
106	CAL SUB / WASHOE SW STA	120	L
106	WASHOE SW STA / MT ROSE	120	L
106T	WASHOE SW STA / RENO	120	L
107	CARSON T / BRUNSWCK	120	L
107	MT ROSE / CARSON T	120	L
108	TRACY E / BRUNSWCK	120	L
109	BRUNSWCK / BUCKEYE	120	L
110	MIRA LMA / BELVISTA	120	L
114	CAL SUB / NORTHWST	120	L
116	TRACY / MIRA LMA	120	L
122	DAYTON TP / BRUNSWCK	120	L
122	FT CHUR / DAYTON TP	120	L

SPP

124	BUCKEYE / FT CHUR	120	L
125	MT ROSE / STEAMBT	120	L
126	FT CHUR / STEAMBT	120	L
127	STEAMBT / MIRA LMA	120	L
128	GLENDALE / GREG ST	120	L
129	VAL ROAD / GLENDALE	120	L
141	NORTHWST / VAL RD N	120	L
142	RENO / VAL RD N	120	L
143	MIRA LMA / GREG ST	120	L
159	BELVISTA / GREG ST	120	L
BTIE	TRACY / TRACY E	120	L
501	CAL-NEV1 / SLVR PK	55	I
502	CAL-NEV2 / SLVR PK	55	I
503	COALDALE / MILLERS	55	I
503	MIN. TAP / COALDALE	55	I
503	SLVR PK / MIN. TAP	55	I
506	MILLERS / TONOPAH	55	I
508	ALKALI / TONOPAH	55	I
508	FOOTCO / ALKALI	55	I
508	SLVR PK / FOOTCO	55	I
607	SUMMIT 3 / TDPUD TP	60	I
607	TAH-DON TP / TRUCKEE	60	I
607	TDPUD TP / TAH-DON TP	60	I
621	TRUCKEE / N TRUCKEE	60	I
Substations Included in RTO West for Control and Pricing			
	Transmission Transformers	Nomimal	Rated
Unit #	Name of Substation	Voltages	MVA
1	ANACONDA MOLY	230/120	150
1	E. TRACY	345/120	280
1	FT. CHURCHILL	230/120	150
1	MILLERS	120/60	35.8
1	MIRA LOMA	345/120	280
2	MIRA LOMA	345/120	280
1	N. VALLEY ROAD	345/120	280
2	N. VALLEY ROAD	345/120	280
1	NO VALMY	345/120	280
3	NO VALMY	345/120	280
1	HILLTOP	345/230	300
1	NORTH TRUCKEE	120/60	75
1	SILVER PEAK	60/60	1.5

SPP

Substations Included in RTO West for Control and Pricing			
Unit #	Phase Shifters Name of Substation	Nomimal Voltages	Rated MVA
1	CAL SUB	120/120	150
1	BORDERTOWN	345/345	300
1	SILVER PEAK	60/60	17
2	SILVER PEAK	60/60	17
1	FT CHURCHILL	120/120	150