Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
66	COI	N-S	WSCC existing	4800 MW	4800 MW	4800 MW	4350 MW	California parties	Allocation based on RTC	Malin-Round Mountain 500 1&2, Captain Jack-Olinda 500	4800 MW OTC expected in summer 2001 due to Kfalls
66B		S-N	WSCC existing	3675 MW	3675 MW	3675 MW	3675 MW	California parties			
112	West of Klamath Falls	S-N	Not monitor-ed now	Guess	2000 MW	2000 MW	2000 MW	BPA, PAC, PGE, 3AC		Klamath Falls-Meridian 500, Klamath Falls-JC Boyle 230	To capture load carrying capability in So OR simultaneous with CA import, rating is a guess
112B		N-S									This direction in not limiting now
14	NW to Idaho	E-W	WSCC existing	2400 MW	2400 MW	2400 MW	2400 MW	BPA, PAC, AVA, IPC	Defined by agreements	Midpoint-Summer Lake 500, Oxbow-Lolo 230; Hells Canyon-Enterprise 230; Quartz Tap-Lagrande 230; Hines-Harney 138	Includes Midpoint-Summer Lake
14B	NW to Idaho	W-E	WSCC existing	1200 MW	1200 MW	1200 MW	1200 MW	BPA, PAC, AVA, IPC	Defined by agreements	Midpoint-Summer Lake 500, Oxbow-Lolo 230; Hells Canyon-Enterprise 230; Quartz Tap-Lagrande 230; Hines-Harney 138	Rating and Allocation currently under study and negotiation, Rating is questionable under current methodology
14C	HELLSCAN_ENT	E-W		400 MW						HELLSCYN-ENTERPRS 230	
14D	Hines-Harney 138	E-W		50 MW						HINES 138-HARNEY 115	
14E	LADD_LAGRAND	E-W		300 MW						HINES 138-HARNEY 115, QUARTZTP-LAGRANDE 230	
14F	OXBOW_LOLO	E-W		450 MW						OXBOW-DIVIDE 230	
75	Midpoint-Summer Lake	E-W	WSCC existing	1500 MW	1500 MW	1500 MW	1500 MW	PAC		Midpoint-Summer Lake 500	Nomogram relationship exists with East of Brownlee, NJD, COI, PDCI
75B		W-E	OTC Studies, WSCC Phase II	400 MW	400 MW	400 MW	400 MW	PAC			Part of Idaho to NW path, MP-SL not rated in W-E direction, 650 MW proposed in Phase II studies
116	East of Hot Springs	E-W		Guess	2200 MW	2200 MW	2200 MW			Kerr-Elmo 115, Hot Springs-Ovando 230, Hot Springs-Rattlesnake 230, Taft-Garrison 500 #1 & #2, Thompson-Falls-Burke 115	this path rating is a guess based on Mont-NW
116B	East of Hot Springs	W-E		Guess	600 MW	600 MW	600 MW				this path rating is a guess based on Mont-NW
102	North of Hanford	N-S	BPA Internal Studies	Not rated	5160 MW	5160 MW	5160 MW			COULEE-HANFORD 500, VANTAGE-HANFORD 500, Vantage-Midway 230 #1, Vantage-Pomona 230, Vantage-Walla Walla 230, Wanapum Tp-Midway 230, Coulee-Potholes 230, Coulee-Rocky Ford 230, (note 3)	This is a new cutplane that cuts south of Coulee and south of Vantage, rating is based on DSO 306, where limit is 3700 MW for 500 lines
102B	North of Hanford										This direction in not limiting now

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
73	North of John Day	N-S	OTC studies	Not rated	9690 MW	10140 MW	9570 MW	BPA, others		HANFORD-OSTRNDER 500, HANFORD-JOHN DAY 500, ASHE-SLATT 500, ASHE-MARION 500, LoMo-McNary 500, Paul-Allston 500 #1 & #2, Chehalis-Longview Tp 230 (#1 & #3), Holcomb-Valley Tp 115, Alfalfa-N Bonneville 230, Mabton-Big Eddy 230, Franklin-McNary 230, McNary-Patt Tp 115, McNary-Cold Sprgs 230 (Note 3)	This is a new complete cutplane does not cut Raver-Paul, instead cuts Paul-Allston corridor, rating is based on DSO 311, where limit is 8000 MW for 500 lines
73B	North of John Day	S-N									This direction in not limiting now
103	South of Allston	N-S	BPA Internal Studies	Not rated	2970 MW	2970 MW	2970 MW	BPA, PGE, PAC		ALLSTON-KEELER 500, WOODLAND-ROSS 230, ALLSTON-RAINIER# 115, ASTOR TP-SEASIDE 115, TROJAN 1-ST MARYS 230, TROJAN 2-HARBORTN 230, MERWIN-VIEW TAP 115 (note 3)	Presently cutplane includes only 500 lines, limit is based on DSO 313,where limit is 1710 MW for 500 line
103B	South of Allston										This direction in not limiting now
117	South of Snoking	N-S		Guess	3500 MW	3500 MW	3500 MW			MONROE-ECHOLAKE 500, SAMMAMSH-SNOK TAP 230, MAPLE VLY-SNOKING 230, BOTHELL-SAMMAMSH 230, BEVERLY-HILTNLKT 115, BROAD ST-CANAL 115, BROAD ST-UNIVERSITY 115	Proposed cutplane to replace South of Bothell, S-N cutplane partner is South of Monroe
118	South of Monroe	S-N		Guess	2500 MW	2500 MW	2500 MW			MONROE-ECHOLAKE 500, MONROE-SNOK TAP 230, BOTHELL-DIABLO 230, BOTHELL-SNOHOMISH 230 1&2, BOTHELL-HORSE RANCH 230, SNOHOMSH-GLENWD T 115, SNOHOMSH-S-SCTAP 115 (Note 3)	Proposed cutplane to replace South of Bothell, N-S cutplane partner is South of Snoking
105	South of Grizzly	N-S	BPA Internal Studies	Not rated or monitored now	5781 MW	5781 MW	5781 MW	BPA, PGE, PAC		ALVEY-SPENCER 230, GRIZZLY-MALIN 500, GRIZZLY-CAPTJACK 500, PONDROSA-SUMMER L 500, LAPINE-CHILQUIN 230, ALVEY-MARTINTP 230, ALVEY-DIXONVLE 500, Tahknich-Reedsport 115 (note 3)	
105B	South of Grizzly	S-N									This direction in not limiting now
106	South of Raver	N-S	BPA Internal Studies	Not rated	3050 MW	3050 MW	3050 MW	BPA, PSE		RAVER-PAUL 500, COULEE-OLYMPIA 300, TACOMA B-OLYMPIA 230, TACOMA A-CENTR SS 230, FREDRICK-TILCM TP 115, ELECTHTS-KAPOWSIN 115, WHITE RV-FERNHILL 57.5, VASHON-ROBINSN 115	May get linked to North of Hanford in future, could be dropped if south of Paul is used, OTC based on DSO 307, where limit is 1920 MW for 500 line
106B	South of Raver	S-N									This direction in not limiting now

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
4	West of Cascades North - Total	E-W	BPA Internal Studies	Not rated	9800 MW	9800 MW	9800 MW*	BPA, PSE	PSE rights in agreement xxx	CHIEF JO-MONROE 500, SCHULTZ-RAVER 500 1,2,3 &4, CHIEF J3-SNOHOMS3 345 3, CHIEF J4-SNOHOMS4 345 4, ROCKY RH-MAPLE VL 345, COULEE-OLYMPIA 300, BALDI-WHITE RV 230, COLUMBIA-COVINGTN 230 Beverly-McKenzie 115	Limit shown is for winter
4B	West of Cascades North - 1	E-W		Not rated	3300	3300	3300	BPA		CHIEF JO-MONROE 500, CHIEF J3-SNOHOMS3 345 3, CHIEF J4-SNOHOMS4 345 4,	
4C	West of Cascades North - 2	E-W		Not rated	6200	6200	6200	BPA, PSE	PSE rights in agreement xxx	SCHULTZ-RAVER 500 1,2,3 &4, ROCKY RH-MAPLE VL 345, COULEE-OLYMPIA 300, BALDI-WHITE RV 230, COLUMBIA-COVINGTN 230	
4D	West of Cascades North 3	E-W		Not rated	300	300	300	BPA		COULEE-OLYMPIA 300,	
4E	West of Cascades North - Total	W-E									This direction in not limiting now
5	West of Cascades South	E-W	BPA Internal Studies	Not rated	7000 MW	7000 MW	7000 MW*	BPA, PGE		BIG EDDY-OSTRNDER 500, ASHE-MARION 500, BUCKLEY-MARION 500, HANFORD-OSTRNDER 500, J JOHN DAY-MARION 500, MCNARY-ROSS 345, BIG EDDY-MCLOUGLN 230, BIG EDDY-CHEMAWA 230, ALFALFA-BONNVILE 230, TMBLCR T-SANTIAM 230, PARKDALE-TROUTDAL 230, Round Butte-Bethel 230 Hood River TheDalles 115	Include PGE Round Bu-Bethel 230 line starting this winter, limit shown if for winter
5B	West of Cascades South	W-E									This direction in not limiting now
6	West of Hatwai	E-W	WSCC existing rating, AVA internal studies for seasonal OTCs	2800 MW	1200 MW	500 MW	1500 MW	BPA, AVA	Avista - 600, BPA 2200	HATWAI-LOW GRAN 500, BELL SO-COULEE 230 3, BELL MI-COULEE 230 5, WEST-WESTBPA2 230, BELL BPA-COULEE 115, BELL BPA-SPRNGHIL 115, N LEWIST-CLARKSTN 115, LOLO-OXBOW 230 N LEWIST-WALAWWP 230, DRYGULCH 115-DRYGULCH 69.0, HARRNGTN-ODESSA 115 LIND-ROXBORO 115	OTC will be reduced when Avista removes its RAS this summer
6B	West of Hatwai	W-E									This direction in not limiting now
107	West of Coyote	E-W	BPA Internal Studies	Not rated	3000 MW	2850 MW	3000 MW (probably higher - not limiting in winter)	BPA	BPA only	MCNARY-ROSS 345, COYOTE S-SLATT 500 MCNARY-BOARD T2 230, MCNARY-HORSE HV 230,	formerly known as West of McNary

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
107B	West of Coyote	W-E									This direction in not limiting now
108	West of Noxon	E-W	BPA Internal studies	Not rated	3400 MW	3400 MW	3400 MW	BPA, AVA		TAFT-BELL BPA 500, TAFT-DWORSHAK 500, NOXONBPA-LANCASTR 230, NOXON-PINE CRK 230, CAB GORG-LAKEVIEW 230, CROWCR A-BURKWWPA 115, CROWCR B-BURKWWPB 115, MOYIE T-BONNERS 115, CABINETG-CLRKFORK 115	This cutplane would be difficult to define and implement, summer limit could be lower
108B	West of Noxon	W-E									This direction in not limiting now
65	Pacific DC Intertie	N-S	WSCC existing	3100 MW	3100 MW	3100 MW	3100 MW	BPA	BPA 2890 MW PGE 100 MW @ NOB	Celilo-Sylmar	
65B		S-N	WSCC existing	3100 MW	3100 MW	3100 MW	3100 MW	BPA			
3	BC to NW	N-S	WSCC accepted	3150 MW	3150 MW	3150 MW	3150 MW	BPA, PSE	Defined by agreement	Custer-Ingledow 500 #1 & #2, Boundary-Waneta 230, Boundary-Nelway 230	BC-NW is scheduled as one path; N-S total limit is 3150; east limit is 400 and west limit is 2850
3B		S-N	WSCC accepted	2000 MW	2000 MW	2000 MW	2000 MW	BPA, PSE	Defined by agreement	Custer-Ingledow 500 #1 & #2, Boundary-Waneta 230, Boundary-Nelway 230	BC-NW is scheduled as one path; S-N total limit is 2000; east limit is 400 and west limit is 2000
3C	BC to NW	N-S West-side	WSCC accepted	2850 MW	2850 MW	2850 MW	2850 MW	BPA, PSE	Defined by agreement	Custer-Ingledow 500 #1 & #2,	
3D		N-S East-side	WSCC accepted	400 MW	400 MW	400 MW	400 MW	BPA	BPA only	Boundary-Waneta 230, Boundary-Nelway 230	
3E		N-S West-side	WSCC accepted	2000 MW	2000 MW	2000 MW	2000 MW	BPA, PSE	Defined by agreement	Custer-Ingledow 500 #1 & #2,	
3F		N-S East-side	WSCC accepted	400 MW	400 MW	400 MW	400 MW	BPA	BPA only	Boundary-Waneta 230, Boundary-Nelway 230	
76	Alturas	N-S	WSCC accepted	300 MW	300 MW	300 MW	300 MW	BPA, Sierra, PAC	Defined by contract	HIL TOP-BRDRTNPS 345	Linkage to NWACI, PDCI Sierra Net system import limit is 750 MW
76B		S-N	WSCC accepted	300 MW	300 MW	300 MW	300 MW	BPA, Sierra, PAC	Defined by contract		
109	West of Slatt	E-W	BPA Internal study	not rated	5000 MW	4950 MW	5000 MW	BPA	BPA only	SLATT-BUCKLEY 500, SLATT-JOHN DAY 500 MCNARY-ROSS 345 MCNARY-BOARD T2 230 MCNARY-HORSE HV 230 (note 3)	Presently cutplane includes only 500 lines, importance increases with new generation
109B	West of Slatt	W-E									

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
110	South of Paul	N-S	BPA Internal study	not rated	2960 MW	2960 MW	2960 MW	BPA	BPA only	PAUL-ALLSTON 500 1&2, Chehalis-Longview Tp 230 (#1 & #3), Holcomb-Valley Tp 115 (note 3)	Presently cutplane includes only 500 lines, Importance increases with new generation. Rating is determined by limit in DSO 309 which is 2500 MW for 500 lines
110B	South of Paul	S-N									This direction in not limiting now
17	Borah West	E-W	WSCC Accepted	2307	2307	2307	2307	IPC	IPC, PAC	BORAH-ADELAIDE 345, BORAH-ADEL TAP 345, AMFLS-RAFT T 138, AMFLS-PLEAS VL 138, KINPORT-MIDPOINT 345	
17B	Borah West	W-E									This direction in not limiting now
19	BRIDGER_W	E-W	WSCC accepted	2200	2200	2200	2200	IPC, PAC	IPC, PAC	BRIDGER-BORAH 345, BRIDGER-KINPORT 345, BRIDGER-GOSHEN 345	Nomogram with Path C
19B	BRIDGER_W	W-E									This direction in not limiting now
55	BROWNLEE_E	E-W	Idaho internal studies	1750 MW	1750 MW	1750 MW	1750 MW			BOISEBCH-PADDOCK 230, BOISEBCH-BROWNLEE 230 2, 3, &4, MCCALL-OXBOW 138, ONTARIO-WEISR TP 138	With Brownlee East Project
55B	BROWNLEE_E	W-E									This direction in not limiting now
111	BROWNLEE_N	N-S	Idaho internal studies	850 MW	850 MW	850 MW	850 MW			HELLSCYN-BROWNLEE 230, OXBOW-BROWNLEE 230	
111B	BROWNLEE_N	S-N									This direction in not limiting now
119	FLMGORGE	S-N	Not Rated	200	200	200	200	WAPA	WAPA	FLAMGORG 138-FLAMGORG 230 1&2	Rating of Transformers
119B	FLMGORGE	S-N									This direction in not limiting now
16	Idaho-Sierra	N-S	WSCC existing	360 MW	262 MW	262 MW	262 MW	Sierra, Idaho	Defined by contract	IDAHO-NV-MIDPOINT 345	
16B	Idaho-Sierra	S-N	WSCC existing	500 MW	500 MW	500 MW	500 MW	Sierra, Idaho	Defined by contract	IDAHO-NV-MIDPOINT 345	Sierra Net system import limit is 750 MW
120	Idaho-Wyoming	E-W	WSCC accepted	600 MW	600 MW	600 MW	600 MW	PAC	PAC	BRIDGER 345-BRIDGER 230	Rating of Transformers
120B	Idaho-Wyoming	W-E		600 MW	600 MW	600 MW	600 MW				
121	MNMT_NGHTN	E-W	PAC Internal Studies	400	400	400	400	PAC	PAC	MONUMENT-NAUGHTON 230	Thermal Rating of Transmission
121B	MNMT_NGHTN	W-E									This direction in not limiting now
18	MT_ID	S-N	WSCC existing	337	302	234	337	IPC, MPC, PAC	Varies annually	AMPS-PTRSNFLT 230, BIGGRASS-DILLON S 161	
18B	MT_ID	N-S	WSCC existing	337	337	337	337	IPC, MPC, PAC	Varies annually	AMPS-PTRSNFLT 230, BIGGRASS-DILLON S 161	
122	MT_SE	S-N		600	174-505	HL 155-452 LL 255-571	291-600	MPC		YELOWTLP-BLGS PHA 230, YELOWTLP-RMRK PHA 161, CRSOVRUM-HARDIN 230, CRSOVRUM-HUNTLEY 230	Nomogram with Yellowtail and Colstrip generation. Combination of Billings-Yellowtail and Crossover Interchange points.
122B	MT_SE	N_S		600	600	600	600	MPC			

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
20	PATH_C	N-S	WSCC existing	1000	830	830	870	PAC	PAC	BENLOMND-BORAH 345, TREASTON-BRADY 230, MALAD-AMFLS 138, FISHCREK-GOSHEN 161	Nomogram with JB-Rock Springs 230 kV
20B	PATH_C	S-N	WSCC existing	1000	900	900	950	PAC	PAC	BENLOMND-BORAH 345, TREASTON-BRADY 230, MALAD-AMFLS 138, FISHCREK-GOSHEN 161	Nomograms with JB West Path
32	GONDER EAST	W-E	WSCC accepted	150 MW(1)	150 MW(1)	150 MW(1)	150 MW(1)	Sierra	Defined by contract	UTAH-NEV-GONDER 230, INTERMT-GONDER 230	(1) Measured at the Ft. Churchill 230/120kV XFMR
32b	GONDER EAST	E-W	WSCC accepted	245 MW	240 MW	240 MW	240 MW	Sierra	Defined by contract	UTAH-NEV-GONDER 230, INTERMT-GONDER 230	Sierra Net system import limit is 750 MW
123	S_YELLOWTAIL	N-S	Intermal Studies	525	525	525	525	PAC,WAPA, MPC	PAC,WAPA,MPC	YELOWTLP-FRANNIE 230, YELOWTLP-GOOSE CK 230, YELLOWBR-LOVELL 115, YELLOWBR-LOVELL 115 2	Nomogram with Yellowtail Gen.
123B	South of Yellowtail	S-N									This direction in not limiting now
24	SPP_PGE	W-E	WSCC existing	160 MW	100 MW	100 MW	100 MW	Sierra		SUMMIT 3-SPAULDNG 60.0, SUMMIT 1 120-DRUM 115, SUMMIT 2 120-DRUM 115	Sierra Net system import limit is 750 MW
24b	SPP_PGE	E-W	WSCC existing	150 MW	120 MW	120 MW	120 MW	Sierra		SUMMIT 3-SPAULDNG 60.0, SUMMIT 1 120-DRUM 115, SUMMIT 2 120-DRUM 115	
52	SPP_SCE	N-S	WSCC existing	17 MW				Sierra		SILVER PK-CONTROL 1&2 55.	
52b	SPP_SCE	S-N	WSCC existing	17 MW				Sierra		SILVER PK-CONTROL 1&2 55.	Sierra Net system import limit is 750 MW
30	TOT1A	E-W	WSCC existing	650	600	600	600	WAPA	WAPA,PRPA,TSG&T,UAMPS	BEARS-BONANZA 345, HAYDEN-ARTESIA 138, RANGELY-MEEKER 138	
124	TOT2	N-S		1570 MW	1570 MW	1570 MW	1570 MW				
124B	TOT2	S-N									This direction in not limiting now
31	TOT2A	N-S	WSCC existing	690	690	690	690	WAPA,PSC, TSG&T	WAPA,PSC, TSG&T	HESPERUS-SAN JUAN 345,DURANGO-GLADETAP 115, LOSTCANY-SHIPROCK 230	Simultaneous Rating w/ Tot-2 of 1570 MW
78	TOT2B1	N-S	WSCC existing	560	560	560	560	PAC	PAC	PINTO-PINTO PS 345	Simultaneous Rating w/ Tot-2 of 1570 MW
79	TOT2B2	N-S	WSCC existing	265	265	265	265	PAC	PAC	SIGURD-SIGRD PS 230	Simultaneous Rating w/ Tot-2 of 1570 MW
35	TOT2C	E-W	WSCC existing	300 MW	300 MW	250 MW	300 MW	NPC/PACE		REDBUTTE-HA PS 345	Simultaneous rating of TOT2C E-W, CRYSTAL E-W, Reid Gardner and Harry Allen generation is 1,571 MW. Generation has preference over imports.
35B	TOT2C	W-E	WSCC existing	300 MW	300 MW	300 MW	300 MW	NPC/PACE		REDBUTTE-HA PS 345	

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
77	CRYSTAL	E-W	WSCC existing	950 MW	950 MW	950 MW	950 MW	NPC		Crystal to Harry Allen	Simultaneous rating of TOT2C E-W, CRYSTAL E-W, Reid Gardner and Harry Allen generation is 1,571 MW. Generation has preference over imports.
77B	CRYSTAL	W-E	In Progress								
125	Southern Nevada Power Cut Plane	S-N	NPC Operating Studies	2393 MW	2393 MW	2393 MW	2393 MW	NPC, WAPA, LADWP,		MCCULLGH 230 - MERCHANT 230 MCCULLGH 230 - TOLSON 230 MCCULLGH 230 - FAULKNER 230 MEAD N 230 - BASIC 230 MEAD N 230 - DECATUR 230 MEAD N 230 - EQUEST 230 MEAD S 230 - FAULKNER 230 MEAD S 230 - WINTERWD 230 MEAD S 230 - EQUEST 230 MEAD S 230 - PAHRUMP 230 STATES 230 - AMARGOSA 230 STATES 230 - EASTSIDE 230 BC TAP 230 - BC TAPNV 230 MEAD A 69 - MEAD NPC 69 MEAD B 69 - MEAD NPC 69	
125B	Southern Nevada Power Cut Plane	N-S									This direction in not limiting now
36	TOT3	N-S	WSCC accepted	1588	1484	1588	1494	WAPA, MBPP, PSC,BEPC, TSG&T	WAPA, MBPP, PSC,BEPC, TSG&T	LAR.RIVR-STORY 345, LAR.RIVR-AULT 345, ARCHER-AULT 230, SIDNEY-N.YUMA 230, SIDNEY-PEETZ 115, CHEYENNE-ROCKPRTP 115	
36B	TOT3	S-N									This direction in not limiting now
37	TOT4A	E-W	WSCC existing	810	810	810	810	PAC	PAC	RIVERTON-WYOPO 230, DAVEJOHN-DIFICULT 230, SPENCE-MUSTANG 230	Nomogram with Path 4B
37B	TOT4A	W-E									This direction in not limiting now
38	TOT4B	E-W	WSCC existing	680	680	680	680	PAC, WAPA	PAC, WAPA	WYODAK-BUFFALO 230, SPENCE-BADWATER 230, ALCOVA-RADERVIL 115, CASPERPP-MIDWEST 230, RIVERTON-THERMOPL 230, RIVERTON 230-RIVERTON 115	Nomogram with Path 4A
38B	TOT4B	W-E									This direction in not limiting now
33	W_BONANZA	E-W	WSCC existing	785	785	785	785	DG&T, PAC,UMPA	DG&T, PAC,UMPA, UAMPS	BONANZA-MONA 345, UPALCO-EMMAPARK 138	
33B	W_BONANZA	W-E									This direction in not limiting now

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
9	W_BROADVIEW	E-W	Internal studies	2573	2573	2573	2573	MPC,PAC,AVA,PGE,PSE		BROADVU-TOWN1 500, BROADVU-TOWN2 500 2, BROADVU-JUDITHGP 230, BROADVU 230-BROADVU 100 1&2, SHOREYRD-WILSALL 230, ALKALI-CLYDE P 161 9	
9B	W_BROADVIEW	W-E									This direction in not limiting now
10	W_COLSTRIP	E-W	Internal studies	2598	2598	2598	2598	MPC,PAC,AVA,PGE,PSE		COLSTRP-BROADVU 500 1&2, COLSTRP-HARDIN 230, COLSTRP-HARDIN 115 9	
10B	W_COLSTRIP	W-E									This direction in not limiting now
11	W_CROSSOVER	E-W	Internal studies	2598	2598	2598	2598	MPC,PAC,AVA,PGE,PSE		COLSTRP-BROADVU 500 1&2 CRSOVRUM-HUNTLEY 230	
11B	W_CROSSOVER	W-E									This direction in not limiting now
25	WEEDJ_DELTA	N-S	WSCC existing	100 MW	80 MW	80 MW	100 MW			CRAGVIEW-DELTA 115	
25B	WEEDJ_DELTA	S-N		30 MW	30 MW	30 MW	30 MW				This direction in not limiting now
113	Flathead Valley	S-N	Intermal Studies	DSO 310 with guesst-imate	575	575	575	BPA		Libby-Haskell 230, Hot Springs-Lion Mtn 230, Kerr-Elmo 115	DSO 310 requires a minimum of 125 MW generation at Hungry Horse. This has been translated to 575 MW with RAS (100 MW for 115, 100 MW gen, 350 MW load trip), 100 MW w/o RAS. Transmission limit needs to be reviewed
113B	Flathead Valley	N-S									This direction in not limiting now
114	Bremerton	S-N	Internal studies	485 MW	485	485	485	BPA		Kitsap 230/115 Tx #1 and #2, Belfair-Kitsap 115	OTC limit was developed for winter, it is probably lower in Spring and Summer, from DSO 312
114B	Bremerton	N-S									This direction in not limiting now
115	West of Lower Granite	E-W		Guess	3000 MW	3000 MW	3000 MW	BPA		Lower Granite - Little Goose 500 #1 and #2	The RAS scheme in DSO 314 is in service AT ALL TIMES. The rating of this path needs to be calculated but w/o RAS, it is probably quite low.
115B	West of Lower Granite	W-E									This direction in not limiting now
126A	West of Nicola	E-W	BCH Internal studies					BCH		NIC500-KLY500 ckt 1, NIC500-ING500 ckt 1, MDN500-KLY500 ckt 1, SVA138-BKL138 ckt 1, SVA 138-VVW138 ckt 9	
126B		W-E									This direction in not limiting now

1/ Identification numbers greater than 99 are not WSCC numbers, but rather numbers arbitrarily assigned for identification purposes.
2/ Spring includes April and May
Summer includes June through October
Winter includes November through March
3/ Rating and facilities are tentative
4/ Any non-WSCC rating will need to be reviewed.

The following cutplanes were not included in the bubble diagram and test case

Potential RTO West Flowpaths

WSCC Path 1/	Path Name	Direct-ion	Rating Method 4/	Rating	Spring OTC 2/	Summer OTC 2/	Winter OTC 2/	Owners	Allocation	Facilities	Notes
101	NWACI	N-S	prel studies	5100 MW	5100 MW	4900 MW	4350 MW	BPA, PAC, PGE, 3AC	Defined by agreements	Malin-Round Mountain 500 1&2, Captain Jack-Olinda 500	Potential 5100 MW rating is contemplated, combination of COI, Alturas
101B		S-N	prel studies	3675 MW	3675 MW	3675 MW	3675 MW	BPA, PAC, PGE, 3AC	Defined by agreements	HIL TOP-BRDRTNPS 345 (note 3)	Mixed in with PAC S. Oregon load carrying capability
8	Montana to NW	E-W	WSCC accepted	2200 MW	2200 MW	2200 MW	2200 MW	BPA, MT, AVA		TOWN1-GAR1EAST 500, TOWN2-GAR2EAST 500, ANA BPA-GARRISON 230, ANACOND-GARRISON 230, OVANDO-GARRISON 230, OVANDO-HOT SPR 230, Kerr-Elmo 115, Thompson Falls-Burke 115, Crow Creek-Burke 115, RATTLE S 161-RATTLE S 230	Possibly 2100 MW in winter (under study now)
8B		W-E	WSCC existing	600 MW	600 MW	600 MW	600 MW	BPA, MT, AVA			W-E constrained at times when Colstrip is down
104	South of Bothell	N-S	BPA Internal Studies - Guesstimate	Not rated or monitored now	2100 MW Est	2100 MW Est	2100 MW Est	BPA, PSE, SCL		MONROE-ECHOLAKE 500, MONROE-SNOK TAP 230, BOTHELL-SNOK S1 230, BOTHELL-SAMMAMSH 230, BOTHELL-CANAL 115, BOTHELL-NORTH 115, BOTHELL-SHORELIN 115 1&2, BOTHELL-UNIVERSY 115, BOTHELL-VIEWLAND 115, BEVERLY-HILTNLKT 115, SNOHOMSH-GLENWD T 115, SNOHOMSH-S-SCTAP 115 (Note 3)	This rating probably needs more work
104B	South of Bothell	S-N	BPA Internal Studies	Not rated or monitored now	1900 MW Est	1900 MW Est	1900 MW Est	BPA, PSE, SCL			