

2004 ATC Planning Base Case Assumptions

Assumptions for Calculation of TBL Planning Base Case for ATC  
 The following is a list of assumptions that planning used to develop the base case for calculating ATC on BPA's internal paths.  
 Base cases are from BPA budget cases developed during calendar year 2002 representing a 2004 system.  
 The assumptions were applied to four (4) seasonal studies as follows. The month in parentheses is the worst case month from an overall system standpoint for each season that is used to plan the transmission system.  
 - winter (January 04) - The winter season is defined as November through February,  
 - spring (May 04) - spring is defined as March through May,  
 - early summer (June 04) - early summer is the month of June,  
 - late summer/fall (August 04) - late summer/fall is defined as July through October  
 These seasons were defined based upon the load and generation patterns observed during those times of the year.  
 The assumptions are broken down into four (4) categories: Load, Infrastructure Projects, Generation and Interties.

Loads	
DSI	MW
Intalco	470
Longview	0
Vanalco	0
Troutdale	0
Harvalum/Harvey	0/0
Bell	0
Conkelly	0
Federal/Non-Federal	1 in 2 probability forecast n/a

Infrastructure Projects	
Project	kV
Kangley-Echo Lake line.	500
Schultz series capacitors.	500

Location		Interties				Notes
		Winter	Spring	Early Summer	Late Summer	
Northern Intertie		-1290	1000	1000	1000	N-S obligation 850 (BPA) + 150 (PSE) Winter assumes S-N DSB return.
Montana to Northwest	Broad Garr 500 Path	1635	1470	1459	1487	Given flow in Base Case
		1245	828	795	855	Given flow in Base Case
Idaho to Northwest	Midpoint-SL 500 Path	542	375	380	250	Given flow in Base Case
		534	20	5	-23	Given flow in Base Case
COI		53	4783	4796	4712	Slack in base case given other NW assumptions
PDCI		510	2228	2077	1126	Slack in base case given other NW assumptions

Key for intertie assumptions:  
 1. Positive flow either North to South or East to West.

Project	Generation												Notes					
	Obligation				Capability				Historical									
	Winter	Spring	Summer		Winter	Spring	Summer		Winter	Spring	Summer	Late						
Federal Hydro Projects	H/K, 90%	H/K, 90%	H/K, 90%	H/K, 90%														
Centralia	1132																	852MW (BPA) + 280MW (PSE)
Big Hanaford	0	0	0	0														No Firm transmission service
Chehalis					520	520	520	520										
Boardman	572					540	540	540										
Coyote 1 & 2	397	397	397	397														
Frederickson	270					250	250	250										
Hermiston Generating Project	490	490	490	490														
Hermiston Power Partners	536	536	536	536														
Klamath					485	485	485	485										Assumed federal obligation 280. PAC rights not known
Lancaster	150	150	150	150														
Puget									1255	1145	1145	1145						Non-federal rights unknown. Numbers agreed to plan the system.
SCL									400	380	380	380						Non-federal rights unknown. Numbers agreed to plan the system.
SPUD									115	115	115	115						Non-federal rights unknown. Numbers agreed to plan the system.
Mid-Columbia Generation	Wells								780	760	760	760						90% of historical
	Rocky Rh								1040	1060	1060	1060						90% of historical
	Rocky Is								460	440	440	440						90% of historical
	Wanapum								870	840	840	840						90% of historical
Boundary Generation	Priest R								860	690	690	690						90% of historical
		1035		1035					850			650						
Mayfield								170	120	140	60							
Mossy Rock								340	340	340	250							
Beaver	531					520	520	520										
River Road	240	240	240															
Swift	299	299										210	210					
Merwin									145	75	75	30						
Yale									160	160	160	160						
Colstrip					2290	2385	2385	2385										
Bridger					2240	2240	2240	2240										
Western Montana Hydro	Cab Gorge								230	230	230	230						Non-federal rights unknown. Numbers agreed to plan the system.
	Noxon								520	520	520	520						Non-federal rights unknown. Numbers agreed to plan the system.
	Box Canyon								68	56	56	56						Non-federal rights unknown. Numbers agreed to plan the system.
	Rathdrum AVA					182	136	136	136									Non-federal rights unknown. Numbers agreed to plan the system.

Key for generation assumptions:  
 1. Numbers are in Megawatts (MW)  
 2. Assumed Obligation - the total contracted demand  
 3. Maximum Capability - maximum transmission amount  
 4. Historical - numbers based on historical levels  
 5. Allocations based on both H/K and Modified 90% methodologies for federal NT.  
 6. Methodology used for generation assumptions: a) for thermal projects if obligation < capability use obligation, otherwise use capability. b) for hydro projects if obligation < historical use obligation, otherwise use historical.