Appendix B
Tabulation of Generator and Turbine Data

Powerplant	Units	Division	District	Type	River, County, State	Turbne Mfr.	HP	RPM	Rated Head	Max. Head	Min. Head
Albeni Falls	1-3	CENPD	Seattle	Kaplan	Pend Oreille Rr, Bonner Co, ID	Baldwin-Lima-Hamilton	19,600	54.5	22'	34'	8'
Allatoona	1 & 2	CESAD	Mobile	Francis	Etowah River, Bartow Co, GA	S. Morgan Smith	50,000	112.5	135'	170'	104.3'
Allatoona	4	CESAD	Mobile	Francis	Etowah River, Bartow Co, GA	Allis-Chalmers	4,050	450	152'	170'	104.5'
Barkley	1-4	CEORN	Nashville	Kaplan	Cumberland Rr, Lyon Co, KY	Newport News Shipbldg. & Drydk. Co.	58,000	65.5	44'	72'	18'
Beaver	1 & 2	CESWD	Little Rock	Francis	White River, Carroll Co, AR	Newport News Shipbldg. & Drydk. Co.	77,400	105.9	164'	206'	122'
Big Bend	1-3	CEMRD	Omaha	Fixed Blade Prop.	Missouri River, Buffalo Co, SD	English Elect. Export & Trading Co.	90,300	81.8	67'	75'	50'
Big Bend	4-8	CEMRD	Omaha	Fixed Blade Prop.	Missouri River, Buffalo Co, SD	English Elect. Export & Trading Co.	90,300	81.8	67'	75'	50'
Big Cliff	1	CENPD	Portland	Kaplan	North Santiam Rr, Linn Co, OR	Baldwin-Lima-Hamilton	26,500	163.5	91'	98'	73'
Blakely Mt.	1 & 2	CELMV	Vicksburg	Vertical Shaft	Ouachita River, Garland Co, AR	S. Morgan Smith	52,000	120	168'	196'	135'
Bonneville 1	0	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	5,000	257	50'	70'	32'
Bonneville 1	1	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	66,000	75	50'	69'	25.7'
Bonneville 1	2	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	66,000	75	50'	69'	25.7'
Bonneville 1	3-6	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	74,000	75	60'	69'	25.7'
Bonneville 1	7-10	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	74,000	75	60'	69'	25.7'
Bonneville 1	7-10	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	S. Morgan Smith	74,000	75	60'	69'	25.7'
Bonneville 2	11-14	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	Allis-Chalmers	105,000	69.2	52'	70'	32.5'
Bonneville 2	15-18	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	Allis-Chalmers	105,000	69.2	52'	70'	32.5'
Bonneville 2	F1 & F2	CENPD	Portland	Kaplan	Columbia Rr, Multnomah Co, OR	Sulzer/Escher-Wyss	20,700	156.5	59'	68'	32.5'
Broken Bow	1 & 2	CESWD	Tulsa	Francis	Mountain Fork Rr, McCurtain Co, OK	Allis-Chalmers	69,000	128.6	599.5'	639.7'	559'
Buford	1 & 2	CESAD	Mobile	Francis	Chattahoochee Rr, Forsyth Co, GA	Newport News Shipbldg. & Drydk. Co.	55,000	100	136'	153'	107'
Buford	3	CESAD	Mobile	Francis	Chattahoochee Rr, Forsyth Co, GA	Newport News Shipbldg. & Drydk. Co.	55,000	277	136'	151'	101'
Bull Shoals	1-4	CESWD	Little Rock	Francis	White River, Baxter Co, AR	Allis-Chalmers	52,000	128.6	190'	237'	127'
Bull Shoals	5-8	CESWD	Little Rock	Francis	White River, Baxter Co, AR	Newport News Shipbldg. & Drydk. Co.	62,200	128.6	190'	237'	127'
Carter's	1 & 2	CESAD	Mobile	Francis	Coosawattee Rr, Murray Co, GA	Newport News Shipbldg. & Drydk. Co.	172,000	163.6	345'	403'	315'
Carter's	3 & 4	CESAD	Mobile	Francis	Coosawattee Rr, Murray Co, GA	Allis-Chalmers	173,000	150	345'	403'	315'
Center Hill	1-3	CEORD	Nashville	Francis	Cumberland Rr, Dekalb Co, TN	Baldwin-Lima-Hamilton	62,500	105.9	160'	207'	131'
Center Hill	SS	CEORD	Nashville	Francis	Cumberland Rr, Dekalb Co, TN	S. Morgan Smith	1,400	720	160'	207'	131'
Cheatham	1-3	CEORD	Nashville	Kaplan	Cumberland Rr, Cheatham Co, TN	Newport News Shipbldg. & Drydk. Co.	20,000	60	22'	29'	9'
Chief Joseph	1-4, 15&16	CENPD	Seattle	Francis	Columbia River, Douglas Co, WA	S. Morgan Smith	100,000	100	165'	178.5'	148'
Chief Joseph	5 - 14	CENPD	Seattle	Francis	Columbia River, Douglas Co, WA	Newport News Shipbldg. & Drydk. Co.	100,000	100	165'	178.5'	148'
Chief Joseph	17-27	CENPD	Seattle	Francis	Columbia River, Douglas Co, WA	Hitachi	136,000	112.5	163'	196'	130'
Chief Joseph	SS 1 & 2	CENPD	Seattle	Francis	Columbia River, Douglas Co, WA	Pelton	3,500	514	171'	184'	148'
Clarence Cannon	1	CELMV	St. Louis	Kaplan	Salt River, Ralls Co, MO	Allis-Chalmers	42,900	128.6	75'	107'	69'
Clarence Cannon	2	CELMV	St. Louis	Francis	Salt River, Ralls Co, MO	Allis-Chalmers	42,900	75	75'	107'	69'
Cordell Hull	1-3	CEORD	Nashville	Kaplan	Cumberland Rr, Smith Co, TN	Baldwin-Lima-Hamilton	58,200	65.5	44'	58'	26'
Cougar	1 & 2	CENPD	Portland	Francis	McKenzie River, Lane Co, OR	James Leffel, (See Notes)	17,250	400	321'	448'	257.2'
Dale Hollow	1-3	CEORD	Nashville	Francis	Obey River, Clay Co, TN	S. Morgan Smith	25,000	163.6	140'	154'	115'
Dardanelle	1-4	CESWD	Little Rock	Kaplan	Arkanasas River, Yell Co, AR	D-WI&S	42,850	75	38'	53'	20'
De Gray	1	CELMV	Vicksburg	Francis	Caddo River, Clark Co, AR	Newport News Shipbldg. & Drydk. Co.	63,000	150	171'	216'	144'
De Gray	2	CELMV	Vicksburg	Francis	Caddo River, Clark Co, AR	Newport News Shipbldg. & Drydk. Co.	43,240	128.5	171'	216'	144'
Denison	1 & 2	CESWD	Tulsa	Francis	Red River, Bryan Co, OK	S. Morgan Smith	56,000	90	102.5'	131'	75.5'
Detroit	1 & 2	CENPD	Portland	Francis	N. Santiam Rr, Linn Co, OR	Baldwin-Lima-Hamilton	70,000	163.6	285'	375'	225'
Dexter	1	CENPD	Portland	Kaplan	Willamette River, Lane Co, OR	Newport News Shipbldg. & Drydk. Co.	20,700	128.6	51'	58.3'	51'
Dworshak	1 & 2	CENPD	Walla Walla	Francis	Clearwater Rr, Clearwater Co, ID	Allis-Chalmers	142,000	200	560'	625'	470'
Dworshak	3	CENPD	Walla Walla	Francis	Clearwater Rr, Clearwater Co, ID	Allis-Chalmers	346,000	128.6	560'	615.5'	460.5'
Eufaula	1-3	CESWD	Tulsa	Francis	Canadian River, McIntosh Co, OK	Newport News Shipbldg. & Drydk. Co.	41,500	100	96'	125'	70'
Fort Gibson	1-4	CESWD	Tulsa	Francis	Grand Neosho Rr, Wagoner Co, OK	Baldwin-Lima-Hamilton	16,000	100	59'	90'	56'
Fort Peck, Plant No.1	1 & 3	CEMRD	Omaha	Francis	Missouri River, McCone Co, MT	S. Morgan Smith	50,000	128.6	170'	216'	120'
Fort Peck, Plant No.1	2	CEMRD	Omaha	Francis	Missouri River, McCone Co, MT	S. Morgan Smith	20,000	164	140'	216'	120'
Fort Peck, Plant No.2	4 & 5	CEMRD	Omaha	Francis	Missouri River, McCone Co, MT	Allis-Chalmers	63,500	128.6	170'	210'	115'
Fort Randall	1-4	CEMRD	Omaha	Francis	Missouri River, Charles Mix Co, SD	Allis-Chalmers	57,500	85.7	112'	145'	75.5'
Fort Randall	5-8	CEMRD	Omaha	Francis	Missouri River, Charles Mix Co, SD	Allis-Chalmers	57,500	85.7	112'	145'	75.5'
Foster	1 & 2	CENPD	Portland	Kaplan	S. Santiam River, Linn Co, OR	Baldwin-Lima-Hamilton	13,800	257	101'	115'	80'
Garrison	1-5	CEMRD	Omaha	Francis	Missouri River, McLean Co, ND	Baldwin-Lima-Hamilton	88,000	90	150'	184'	99'

ABB = Asea Brown Boveri

Note: Before using any dimensionsal data, consult the equipment drawings.

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Powerplant	Units	Unit Spacing	Cl Dist. to Df. Tb.	Cl Dist. to Min. Tw	Discharge Dia.	Turb. Wt.(tons)	Generator Mfr.	KVA	PF	KW	Max. KW	KV	SC Ratio	Reactance
Albeni Falls	1-3	78'	65'	-2'	282"	232.5	General Electric	15,778	90%	14,200	16,330	13.8	1.100	55.0%
Allatoona	1 & 2	54'	33'	13'	165"	550.8	Westinghouse	40,000	90%	36,000	41,400	13.8	1.293	43.0%
Allatoona	4		18.5'	7'	39.25"	25	Westinghouse	2,500	80%	2,000	2,300	2.3	1.100	Normal
Barkley	1-4	86'	69'	7'	300"	115	General Electric	36,111	90%	32,500	42,500	13.8	1.100	51.0%
Beaver	1 & 2	61'	42'	7.2'	185.25"	81.5	Westinghouse	58,947	95%	56,000	84,000	13.8	1.175	31.5%
Big Bend	1-3	86'	70'	-2'	278"	250.5	Westinghouse	61,579	95%	58,500	58,500	13.8	1.175	31.5%
Big Bend	4-8	86'	70'	-2'	278"	250.5	Westinghouse	61,579	95%	58,500	58,500	13.8	1.175	31.5%
Big Cliff	1	48.67'	33.7'	-2'	148.2"		Westinghouse	20,000	90%	18,000	18,000	14.4	1.100	
Blakely Mt.	1 & 2	56'	40'	7'	180"	70	Westinghouse	41,667	90%	37,500	43,000	13.8	1.100	42.0%
Bonneville 1	0				81"		Elec. Mach. Corp.	5,000	80%	4,000		2.4		
Bonneville 1	1	82'	59.6'	5.5'	280"	142	General Electric	48,000	90%	43,200	49,680	13.8	1.100	44.0%
Bonneville 1	2	82'	59.6'	5.5'	280"	900	General Electric	48,000	90%	43,200	49,680	13.8	1.100	44.0%
Bonneville 1	3-6	82'	59.6'	5.5'	280"	900	General Electric	60,000	90%	54,000	62,100	13.8	1.300	44.0%
Bonneville 1	7-10	82'	59.6'	5.5'	280"	900	General Electric	60,000	90%	54,000	62,100	13.8	1.300	44.0%
Bonneville 1	7-10	82'	59.6'	5.5'	280"	900	General Electric	60,000	90%	54,000	62,100	13.8	1.300	44.0%
Bonneville 2	11-14	94'	72.12'	-7.87'	331.2"	1,125	General Electric	70,000	95%	66,500	66,500	13.8	1.175	42.0%
Bonneville 2	15-18	94'	72.12'	-7.87'	331.2"	1,125	General Electric	70,000	95%	66,500	66,500	13.8	1.175	42.0%
Bonneville 2	F1 & F2	43'	30.5'	-20'	140"	175	Westinghouse	13,800	95%	13,110	13,110	13.8	1.175	45.0%
Broken Bow	1 & 2	55'	36'	4.2'	152.1"	325	Allis-Chalmers	52,632	95%	50,000	57,500	13.8	1.175	41.0%
Buford	1 & 2	62'	39'	7'	180"	423.25	Westinghouse	44,444	90%	40,000	46,000	13.8	1.100	43.0%
Buford	3	43'	16'	2'	66"	74.5	Westinghouse	6,667	90%	6,000	6,900	13.8	1.100	44.0%
Bull Shoals	1-4	54'	33'	11'	152.5"	30	Allis-Chalmers	45,105	95%	42,750	49,000	13.8	1.170	42.0%
Bull Shoals	5-8	54'	33'	10.7'	152.5"	36	Allis-Chalmers	47,368	95%	47,500	55,000	13.8	1.175	41.0%
Carter's	1 & 2	63'	38'	-13'	166"	40	Allis-Chalmers	131,579	95%	125,000	143,750	13.8	1.175	37.0%
Carter's	3 & 4	63'	33'	-22'	170"	40	General Electric	131,579	90%	125,000	143,750	13.8	1.175	
Center Hill	1-3	58'	38'	3.8'	180.5"	80	General Electric	50,000	90%	45,000	52,000	13.8	1.100	43.0%
Center Hill	SS		15'	2'	26.25"		Elliott	1,000	80%	15	15	480V		35.0%
Cheatham	1-3	82'	65'	6.6'	274"	550	Westinghouse	13,333	90%	12,000	13,500	13.8	1.100	54.0%
Chief Joseph	1-4, 15&16	70'	42'	7'	192"	332.5	Westinghouse	67,368	95%	64,000	67,368	13.8	1.170	43.0%
Chief Joseph	5 - 14	70'	42'	7'	196.9"	332.5	Westinghouse	67,368	95%	64,000	67,368	13.8	1.170	43.0%
Chief Joseph	17-27	70'	42'	7'	215"		General Electric	100,000	95%	95,000	100,000	13.8	1.175	32.4%
Chief Joseph	SS 1 & 2	22'	28.5'	4'	39"		Elliott	721	4%	3,000	3,000	2.4	1.000	Normal
Clarence Cannon	1	75'	47.2'	-9'	185"	520	General Electric	28,421	95%	27,000	27,000	13.8	1.175	43.0%
Clarence Cannon	2	82'	50'	-9'	231"	1,036	General Electric	28,421	95%	27,000	27,000	13.8		
Cordell Hull	1-3	86'	69'	6.5'	290"	246	General Electric	37,037	90%	33,333	33,333	13.8	1.100	45.0%
Couger	1 & 2	34'	15'	5.5'	64.2"	79	Elliott	13,158	95%	12,500	14,375	6.9	1.175	38.0%
Dale Hollow	1-3	42'	24'	7'	113.5"	246	Westinghouse	20,000	90%	18,000	18,630	13.8	1.100	42.0%
Dardanelle	1-4	80'	60'	4.5'	257"	720	Westinghouse	32,632	95%	31,000	35,600	13.8	1.175	48.0%
De Gray	1	49'	216'-184', bott. 32'	210' min. to 223' top	156.5"	50.5	Allis-Chalmers	42,105	95%	40,000	46,000	13.8	1.175	40.0%
De Gray	2	49'	216'-184', bott. 32'	210' min. to 223' top	194.38"	69.5	Allis-Chalmers	29,474	95%	28,000	32,200	13.8	1.175	36.0%
Denison	1 & 2	64'	43'	7.4'	191.5"	501.3	Westinghouse	36,482	95%	35,000	40,200	13.8	1.500	43.0%
Detroit	1 & 2	54'	32'	5'	130"	437	Westinghouse	55,556	90%	50,000	57,500	13.8	1.760	31.0%
Dexter	1	51'	36'	-4.6'	159"	206.6	General Electric	15,000	100%	15,000	17,250	13.8	1.250	46.0%
Dworshak	1 & 2	47'	36'	1'	125"	206.5	Allis-Chalmers	94,737	95%	90,000	90,000	13.8	1.175	63.0%
Dworshak	3	54'	46'	7'	192"	860	Allis-Chalmers	233,684	95%	222,000	222,000	13.8	1.175	25.4%
Eufaula	1-3	61'	42'	8.2'	182"	443.2	Westinghouse	31,579	95%	30,000	34,500	13.8	1.175	44.0%
Fort Gibson	1-4	53'	34.25'	6'	151.25"	51	Allis-Chalmers	12,500	90%	11,250	12,938	13.8	1.100	49.0%
Fort Peck, Plant No.1	1 & 3	46'	32'	9.45'	146.56"	50.9	Allis-Chalmers	38,889	90%	35,000	40,250	13.8	1.100	39.0%
Fort Peck, Plant No.1	2	46'	32'	9.45'	104.88"	25.1	Allis-Chalmers	16,667	90%	15,000	17,250	13.8	1.260	40.0%
Fort Peck, Plant No.2	4 & 5	56'	36'	5'	155.5"	54.7	Elliott	42,105	95%	40,000	46,000	13.8	1.170	42.0%
Fort Randall	1-4	70'	42'	9'	204"	55	Westinghouse	42,105	95%	40,000	46,000	13.8	1.170	46.0%
Fort Randall	5-8	70'	42'	9'	204"	55	Westinghouse	42,105	95%	40,000	46,000	13.8	1.170	46.0%
Foster	1 & 2	40'	24'	-10'	95.84"	54.7	Allis-Chalmers	10,526	95%	10,000	11,500	4.2	1.750	42.0%
Garrison	1-5	75'	46'	47'	210.5"	178.5	General Electric	84,211	95%	80,000	92,000	13.8	1.960	34.0%

ABB = Asea Brown Boveri

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Powerplant	Units	WK^2	Gen. Dia.	Gen. Wt. (tons)	Power on Line	Rewind Mfr.	Rewind Capacity	Rewind Above Cap.	Rewind Date
Alben Falls	1-3	55,000,000	48.5'	157.5					
Allatoona	1 & 2	Rotor: 39000000	38'	418	See notes.	ABB Power Generation, Inc.	47000 KVA@.90PF.		See notes.
Allatoona	4	89,000	6.33'	28.25	2/17/50	NEC Magnetek	3000 KVA	3450 KVA	1984
Barkley	1-4	114,000,000	50'	676.9	1/20/66				
Beaver	1 & 2		41'	486.5					1/1/83
Big Bend	1-3	109,400,000	45'	677.5	See notes.	Magnetek Ntl Elec Coil	67,274	58,500	See notes.
Big Bend	4-8	109,400,000	45'	677.5	See notes.				
Big Cliff	1		31'	237.3					
Blakely Mt.	1 & 2	114,000,000	40'	484	10/1/55				
Bonneville 1	0				9/28/37				
Bonneville 1	1	113,000,000	48'	335	5/17/38				Not Rewound
Bonneville 1	2	113,000,000	48'		6/6/38	NEC	54,200	59,400	Jun-76
Bonneville 1	3-6	113,000,000	48'	1,000	See notes.				
Bonneville 1	7-10	113,000,000	48'	1,000	See notes.				
Bonneville 1	7-10	113,000,000	48'	1,000					See notes.
Bonneville 2	11-14	164,960,000	52.17'	850	See notes.				
Bonneville 2	15-18	164,960,000	52.17'	850	See notes.				
Bonneville 2	F1 & F2	4,231,000	22' x 30'	165					
Broken Bow	1 & 2	34,400,000	40'	348.5	See notes.	Thomas Elec.	50,000	57,500	U1, 04/84; U2, 12/84.
Buford	1 & 2	Rotor: 83,288,687	35'	638	See notes.				
Buford	3	Rotor: 765,703	12.5'	91	7/26/57				
Bull Shoals	1-4	34,000,000	40'	360	See notes.	NEC	45,000	51,750	4/6/83
Bull Shoals	5-8	34,000,000	40'	362.8	See notes.	NEC	50,000	57,500	1/1/83
Carter's	1 & 2	Rotor: 95,700,000	42'	775	See notes.	ABB Power Generation, Inc.	125,000 KW	143,750	U1, 03/12/92; U2, 02/12/92.
Carter's	3 & 4	Rotor: 90,200,100	44'	651	See notes.				
Center Hill	1-3	55,000,000	40'	450	1951				1/1/83
Center Hill	SS		5.83'	7.5	1951				
Cheatham	1-3	47,500,000	44.17'	431.6					
Chief Joseph	1-4, 15&16	84,000,000	42.5'	600	See notes.	Westinghouse	88,270	92,920	1/1/87
Chief Joseph	5 - 14	84,000,000	42.5'	600	See notes.	Westinghouse	88,270	92,920	1/1/87
Chief Joseph	17-27	96,600,000	46'	540	06/77to05/79				Rewedge date: 1/1/1983
Chief Joseph	SS 1 & 2	75,000	12.33' Max.	29.5	Jun-55				
Clarence Cannon	1	15,500,000	35'	265	Nov-84				
Clarence Cannon	2		45'	432.5	Nov-84				
Cordell Hull	1-3	114,000,000	54.17' Max.	584.5					
Cougar	1 & 2	1,498,000	22'	101.9					
Dale Hollow	1-3	7,500,000	28.33'	195.8					1/1/81
Dardanelle	1-4	54,500,000	42.67'	460					1/1/78
De Gray	1	34,000,000	38'	331	See notes.				
De Gray	2	19,200,000	39'	124.18	See notes.				
Denison	1 & 2	55,000,000	39.17'	497					
Detroit	1 & 2	29,000,000	38.25'	590					
Dexter	1	9,000,000	31.67'	262					
Dworshak	1 & 2	36,200,000	36.08'						
Dworshak	3	200,000,000	48.17'	921	4/20/73	Siemens			1/1/75
Eufaula	1-3	31,900,000	39.17'	345	7/27/64				
Fort Gibson	1-4	13,500,000	23'	226.5	Mar-53				
Fort Peck, Plant No.1	1 & 3	30,000,000	36'	350	See notes.	NEC	43,500	50,025	1978
Fort Peck, Plant No.1	2	7,000,000	25.5'	165	See notes.	NEC	18,250	20,988	1978
Fort Peck, Plant No.2	4 & 5	39,500,000	35.33'	411.4					
Fort Randall	1-4	82,000,000	43'	614	See notes.				
Fort Randall	5-8	82,000,000	43'	614	See notes.				
Foster	1 & 2	2,000,000	See notes.	115.5					
Garrison	1-5	150,000,000	50'	1,122.50		NEC	109,250	109,250	11/23/85

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Note: Before using any dimensionsal data, consult the equipment drawings.
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Powerplant	Units	Notes
Albeni Falls	1-3	
Allatoona	1 & 2	POL: U1,1/31/50; U2,5/25/50; Rewind Date: U1,12/12/94; U2,4/17/94.
Allatoona	4	Rewind PF: 0.925; Rewind KV: 2.4.
Barkley	1-4	
Beaver	1 & 2	
Big Bend	1-3	POL Rewind: U1,12/06/90; U2,04/10/91; U3,05/16/91.
Big Bend	4-8	POL: U4 to U8, OCT64 - JUL66.
Big Cliff	1	
Blakely Mt.	1 & 2	
Bonneville 1	0	
Bonneville 1	1	
Bonneville 1	2	
Bonneville 1	3-6	POL: U3,1/9/41; U4,12/23/40; U5,09/05/41; U6,05/18/42.
Bonneville 1	7-10	POL: U7,04/01/43; U8,06/16/43; U9,09/15/43; U10,12/15/43.
Bonneville 1	7-10	Rewind Dates: U7,10/69; U8,10/60; U9,10/70; U10,10/58.
Bonneville 2	11-14	POL: U11,09/30/82; U12,09/21/82; U13,10/18,82; U14,05/13/82.
Bonneville 2	15-18	POL: U15, 04/12/82; U16, 01/06/82; U17, 10/21/81; U18, 05/22/81.
Bonneville 2	F1 & F2	
Broken Bow	1 & 2	POL: U1,01/27/70; U2,06/03/70.
Buford	1 & 2	POL: U1,10/10/57; U2,06/19/57.
Buford	3	
Bull Shoals	1-4	POL: U1,09/18/52; U2,09/29/52; U3,12/01/52; U4,06/12/53. All generator info. after 04/06/83 rewind.
Bull Shoals	5-8	POL: U5,12/16/62; U6,02/08/62; U7,08/01/63; U8,09/17/63. All generator info. after 01/01/83 rewind.
Carter's	1 & 2	POL: U1,11/17/75; U2,07/23/75
Carter's	3 & 4	POL: U3,04/17/77; U4,06/01/77.
Center Hill	1-3	
Center Hill	SS	
Cheatham	1-3	
Chief Joseph	1-4, 15&16	POL: AUG55 - SEP58.
Chief Joseph	5 - 14	POL: AUG55 - SEP58.
Chief Joseph	17-27	
Chief Joseph	SS 1 & 2	
Clarence Cannon	1	
Clarence Cannon	2	
Cordell Hull	1-3	
Cougar	1 & 2	Voith runners installed in 1988.
Dale Hollow	1-3	
Dardanelle	1-4	
De Gray	1	POL: Comm. Oper. 02/29/72; Tot. Gen. Sh. Wt. 728000lbs; Tailwater Min. 210', Top of Weir Lower Dam, 223'.
De Gray	2	POL: Comm. Oper. 02/29/72; Tot. Gen. Sh. Wt. 570000lbs; Gen&Motor 20.42x10^6 WK^2.
Denison	1 & 2	
Detroit	1 & 2	
Dexter	1	
Dworshak	1 & 2	POL: U1,03/01/73; U2,04/06/73.
Dworshak	3	
Eufaula	1-3	
Fort Gibson	1-4	Turb. Wt.: 51 tons, shaft & runner.
Fort Peck, Plant No.1	1 & 3	Rewind KVA: 45789; Rewind PF: 95%.
Fort Peck, Plant No.1	2	Rewind KVA: 19211; Rewind PF: 95%
Fort Peck, Plant No.2	4 & 5	
Fort Randall	1-4	POL: U1,03/15/54; U2,05/18/54; U3,10/30/54; U4,10/30/54.
Fort Randall	5-8	POL: U5,02/04/55; U6,06/02/55; U7,09/21/55; U8,01/11/56.
Foster	1 & 2	Gen. Dia.: 17'-10" x 22'-1"
Garrison	1-5	

ABB = Asea Brown Boveri
Note: Before using any dimensionsal data, consult the equipment drawings.
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Powerplant	Units	Division	District	Type	River, County, State	Turbne Mfr.	HP	RPM	Rated Head	Max. Head	Min. Head
Gavin's Point	1-3	CEMRD	Omaha	Kaplan	Missouri River, Yankton Co, SD	Baldwin-Lima-Hamilton	54,000	75	48'	80'	40'
Green Peter	1 & 2	CENPD	Portland	Francis	Santiam River, Linn Co, OR	Allis-Chalmers	55,000	163.6	265'	321'	186'
Green Peter	F 1	CENPD	Portland	Francis	Santiam River, Linn Co, OR	James Leffel	2,000	900	290'	290'	161'
Greers Ferry	1 & 2	CESWD	Little Rock	Francis	Little Red River, Cleburne, AR	Baldwin-Lima-Hamilton	66,300	120	176'	214'	156'
Harry S. Truman	1-6	CEMRD	Kansas	Adj. Blade & Incl. Axis	Osage River, Benton Co, MO	Baldwin-Lima-Hamilton	42,400	100	42.5'	79.2'	41'
Hartwell	1-4	CESAD	Savannah	Francis	Savannah River, Hart Co, GA	Newport News Shipbldg. & Drydk. Co.	91,500	100	170'	187'	144'
Hartwell	5	CESAD	Savannah	Francis	Savannah River, Hart Co, GA	Voest - Alpine	109,500	112.5	170'	187'	143'
Hill's Creek	1 & 2	CENPD	Portland	Francis	Willamette River, Lane Co, OR	Baldwin-Lima-Hamilton	21,700	277	256'	320'	181.5'
Ice Harbor	1-3	CENPD	Walla Walla	Kaplan	Snake River, Walla Walla Co, WA	Allis-Chalmers	143,000	90	89'	105'	78'
Ice Harbor	4-6	CENPD	Walla Walla	Kaplan	Snake River, Walla Walla Co, WA	Allis-Chalmers	174,000	85.7	89'	102'	72'
Island Creek	1-3	CESAD	Wilmington	Axial & Adj. Blade	Roanoke River, Mechlenburg Co, VA	S. Morgan Smith	1,250	600	40'	50'	
J. Percy Priest	1	CEORD	Nashville	Fixed Blade Prop.	Stones River, Davidson Co, TN	Allis-Chalmers	42,700	128.6	78'	100'	65'
J. Strom Thurmond	1-7	CESAD	Savannah	Francis	Savannah River, McCormack Co, SC	Newport News Shipbldg. & Drydk. Co.	55,000	100	136'	152'	118'
Jim Woodruff	1-3	CESAD	Mobile	Adj. Blade Terry	Apalachicola River, Gadsden Co, FL	Newport News Shipbldg. & Drydk. Co.	14,000	75	26.5'	33'	14'
John Day	1-16	CENPD	Portland	Kaplan	Columbia River, Sherman Co, OR	Baldwin-Lima-Hamilton	212,400	90	94'	110'	83.5'
John Day	1-4 Rew'd	CENPD	Portland	Kaplan	Columbia River, Sherman Co, OR	Baldwin-Lima-Hamilton	212,400	90	94'	110'	83.5'
John Day	6-11 Rew'd	CENPD	Portland	Kaplan	Columbia River, Sherman Co, OR	Baldwin-Lima-Hamilton	212,400	90	94'	110'	83.5'
John Day	13 Rew'd	CENPD	Portland	Kaplan	Columbia River, Sherman Co, OR	Baldwin-Lima-Hamilton	212,400	90	94'	110'	83.5'
John Day	15 Rew'd	CENPD	Portland	Kaplan	Columbia River, Sherman Co, OR	Baldwin-Lima-Hamilton	212,400	90	94'	110'	83.5'
John H. Kerr	SS A & B	CESAD	Wilmingtion	Francis	Roanoke River, Mecklenburg Co, VA	James Leffel	1,600	450	90'	108'	60'
John H. Kerr	1	CESAD	Wilmingtion	Francis	Roanoke River, Mechlenburg Co, VA	Baldwin-Lima-Hamilton	17,000	138.5	90'	108'	60'
John H. Kerr	2-5	CESAD	Wilmingtion	Francis	Roanoke River, Mechlenburg Co, VA	Newport News Shipbldg. & Drydk. Co.	45,000	85.7	90'	108'	60'
John H. Kerr	6 & 7	CESAD	Wilmingtion	Francis	Roanoke River, Mechlenburg Co, VA	Newport News Shipbldg. & Drydk. Co.	45,000	85.7	90'	108'	60'
Jones Bluff	1-4	CESAD	Mobile	Fixed Bl. Prop. (4 Blade)	Alabama River, Autauga Co, AL	Newport News Shipbldg. & Drydk. Co.	23,480	72	28.2'	41.5'	10'
Jones Bluff	1-4	CESAD	Mobile	Fixed Bl. Prop. (4 Blade)	Alabama River, Autauga Co, AL	Newport News Shipbldg. & Drydk. Co.	23,480	72	28.2'	41.5'	10'
Keystone	1 & 2	CEWSD	Tulsa	Fixed Blade Prop.	Arkansas River, Osage Co, OK	Allis-Chalmers	49,000	120	74'	97'	66'
Laurel	1	CEORD	Nashville	Francis	Laurel River, Laurel Co, KY	Allis-Chalmers	98,000	144	237'	1030.5'	982'
Libby	1-4	CENPD	Seattle	Francis	Kootenai River, Lincoln Co, MT	Allis-Chalmers	165,000	128.6	300'	341'	165'
Libby	1-5	CENPD	Seattle	Francis	Kootenai River, Lincoln Co, MT	Allis-Chalmers	165,000	128.6	300'	341'	165'
Little Goose	1-3	CENPD	Walla Walla	Kaplan	Snake River, Columbia Co, WA	Baldwin-Lima-Hamilton	212,400	90	93'	98'	90.5'
Little Goose	4-6	CENPD	Walla Walla	Kaplan	Snake River, Columbia Co, WA	Allis-Chalmers	212,400	90	93'	98'	90.5'
Lookout Point	1-3	CENPD	Portland	Francis	Willamette River, Lane Co, OR	Pelton	52,500	128.6	185'	233'	126'
Lost Creek	1 & 2	CENPD	Portland	Francis	Rogue River, Jackson Co, OR	Boving	33,800	240	275'	321'	197'
Lower Granite	1-3	CENPD	Walla Walla	Kaplan	Snake River, Columbia Co, WA	Baldwin-Lima-Hamilton	212,400	90	93'	105'	76'
Lower Granite	4-6	CENPD	Walla Walla	Kaplan	Snake River, Columbia Co, WA	Allis-Chalmers	212,400	90	93'	105'	76'
Lower Monumental	1-3	CENPD	Walla Walla	Kaplan	Snake River, Walla Walla Co, WA	Baldwin-Lima-Hamilton	212,400	90	94'	100'	87'
Lower Monumental	4-6	CENPD	Walla Walla	Kaplan	Snake River, Walla Walla Co, WA	Allis-Chalmers	212,400	90	93'	103'	87'
McNary	1-12	CENPD	Walla Walla	Kaplan	Columbia River, Umatilla Co, OR	S. Morgan Smith	111,300	85.7	80'	92'	62'
McNary	13 & 14	CENPD	Walla Walla	Kaplan	Columbia River, Umatilla Co, OR	S. Morgan Smith	111,300	85.7	80'	92'	62'
McNary	SS 1 & 2	CENPD	Walla Walla	Francis	Columbia River, Umatilla Co, OR	Pelton	4,500	277	80'	92'	62'
Miller's Ferry	1-3	CESAD	Mobile	Fixed Bl. Prop. (5 Blade)	Alabama River, Wilcox Co, AL	Newport News Shipbldg. & Drydk. Co.	34,000	69.3	35.5'	47.5'	14'
Narrows	1 & 2	CELMV	Vicksburg	Francis	Lower Miss. River, Pike Co, AR	Baldwin-Lima-Hamilton	12,000	225	132'	153.5'	98'
Narrows	3	CELMV	Vicksburg	Francis	Lower Miss. River, Pike Co, AR	Baldwin-Lima-Hamilton	12,000	225	132'	153.5'	98'
Norfork	1 & 2	CESWD	Little Rock	Francis	White River, Baxter Co, AR	S. Morgan Smith	42,000	128.6	160'	202'	130'
Oahe	1-7	CEMRD	Omaha	Francis	Missouri River, Hughes Co, SD	Allis-Chalmers	128,500	100	185'	203'	114'
Old Hickory	1-4	CEORD	Nashville	Kaplan	Cumberland Rr, Davidson Co, TN	Baldwin-Lima-Hamilton	45,000	75	45'	60'	23'
Ozark	1-5	CESWD	Litte Rock	Adj. Bl. Incl. Axis	Arkansas River, Franklin Co, AR	Allis-Chalmers	27,900	514	27'	35'	17'
Phillpott	1 & 2	CESAD	Wilmington	Francis	Smith River, Henry Co, VA	James Leffel	9,400	277	152'	176'	108'
Phillpott	3	CESAD	Wilmington	Francis	Smith River, Henry Co, VA	James Leffel	860	720	152'	176'	108'
Phillpott	SS 1	CESAD	Wilmington	Francis	Smith River, Henry Co, VA	James Leffel	860	720	152'	176'	108'
R.D. Willis	1 & 2	CESWD	Fort Worth	See notes.	Neches River, Tyler Co, TX	Bell (Switzerland)	5,632	163.64	10.648M	30'	12'
Richard B. Russell	1-4	CESAD	Savannah	Francis	Savannah River, Elbert Co, GA	Voest - Alpine	104,000	120	144'	162'	134'
Richard B. Russell	5-8	CESAD	Savannah	Francis	Savannah River, Elbert Co, GA	Dominion Engineering Works	104,000	120	144'	162'	134'
Robert S. Kerr	1-4	CESWD	Tulsa	Kaplan	Arkansas River, Sequoia Co, OK	Allis-Chalmers	46,000	75	40.5'	47'	20'

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Powerplant	Units	Unit Spacing	Cl Dist. to Df. Tb.	Cl Dist. to Min. Tw	Discharge Dia.	Turb. Wt.(tons)	Generator Mfr.	KVA	PF	KW	Max. KW	KV	SC Ratio	Reactance
Gavin's Point	1-3	80'	60'	8'	264"	195	General Electric	35,100	95%	33,345	38,346	13.8	1.170	48.0%
Green Peter	1 & 2	45'	28'	6'	150"	178.5	Westinghouse	42,105	95%	40,000	46,000	13.8	1.175	40.0%
Green Peter	F 1	45'	28'	-15'	23.4"	195	General Electric	1,500	95%	1,425	1,639	0.5	1.175	Normal
Greers Ferry	1 & 2	56'	37'	left	162"	39	Elliott	50,526	95%	48,000	55,200	13.8	1.175	41.0%
Harry S. Truman	1-6	52'	30.9'	20'	255.6"	136	General Electric	28,386	95%	26,967	31,050	13.8	1.175	45.0%
Hartwell	1-4	68'	42'	7'		39	Westinghouse	73,333	90%	66,000	66,000	13.8	1.100	43.0%
Hartwell	5	68'	42'	11'	192"	136	Canadian Gen. Elec.	84,211	95%	80,000	80,000	13.8	1.175	42.0%
Hill's Creek	1 & 2	36'	17'	6.2'	74"	45	BB	15,789	95%	15,000	17,250	6.9	1.175	40.0%
Ice Harbor	1-3	86'	70.67'	-16.5'	280"	940	General Electric	99,723	95%	94,737	94,737	13.8	1.175	43.0%
Ice Harbor	4-6	86'	70.67'	-16.5'	300"	45	General Electric	122,947	95%	116,800	116,800	13.8	1.186	32.4%
Island Creek	1-3	14'			57"	30	Westinghouse	1,000	100%	1,000	1,150	4.16		
J. Percy Priest	1		42'	-1'	180"	380	Allis-Chalmers	31,111	90%	28,000	30,000	13.8	1.100	42.0%
J. Strom Thurmond	1-7	62'	39'	8'	178"	480	General Electric	44,444	90%	40,000	46,000	13.8	1.100	
Jim Woodruff	1-3	65'	48'	8'	208"	86.5	Westinghouse	11,111	90%	10,000	11,500	13.8	1.100	53.0%
John Day	1-16	90'	76'	-40.5'	208"	1,075	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
John Day	1-4 Rew'd	90'	76'	-40.5'	208"	1,075	General Electric	142,105	95%	135,000	155,250	13.8		
John Day	6-11 Rew'd	90'	76'	-40.5'	208"	1,075	General Electric	142,105	95%	135,000	155,250	13.8		
John Day	13 Rew'd	90'	76'	-40.5'	208"	1,075	General Electric	142,105	95%	135,000	155,250	13.8		
John Day	15 Rew'd	90'	76'	-40.5'	208"	1,075	General Electric	142,105	95%	135,000	155,250	13.8		
John H. Kerr	SS A & B	20'	14'	4'	29.25"		Westinghouse	1,250	80%	1,000	1,150	480V		
John H. Kerr	1	60.33'	30'	5'	123.63"	35	Westinghouse	13,333	90%	12,000	13,800	13.8	1.100	45.0%
John H. Kerr	2-5	70'	43'	7'	205"	135.5	Westinghouse	35,555	90%	32,000	36,800	13.8	1.100	45.0%
John H. Kerr	6 & 7	70'	43'	7'	205"	135.5	Westinghouse	35,555	90%	32,000	36,800	13.8	1.100	45.0%
Jones Bluff	1-4	73'	59'	16.5'	256.63"	62	Westinghouse	17,895	95%	17,000	19,950	13.8	1.181	52.0%
Jones Bluff	1-4	73'	59'	16.5'	256.63"	62	Westinghouse	17,895	95%	17,000	19,950	13.8	1.181	52.0%
Keystone	1 & 2	71'	45.5'	7.4'	192.25"	95	General Electric	36,842	95%	35,000	40,200	13.8	1.175	Unsat'd = 37
Laurel	1		33.5'	3'	166.75"	488	General Electric	67,778	90%	61,000	70,000	13.8	1.100	40.0%
Libby	1-4	63'	42'	-1'	179"	502.5	Westinghouse	110,526	95%	105,000	120,000	13.8	1.175	40.0%
Libby	1-5	63'	42'	-1'	179"	502.5	Westinghouse	110,526	95%	105,000	120,000	13.8	1.175	40.0%
Little Goose	1-3	90'	76'	-39'	312"	1,075	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
Little Goose	4-6	90'	76'	-39'	312"	1,250	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
Lookout Point	1-3	60'	33'	11.2'	157"	69	General Electric	42,105	95%	40,000	46,000	13.8	1.100	42.0%
Lost Creek	1 & 2	36'	24' (EL 1549')	0.6' (EL 1548.4')	94"	12.33	Allis-Chalmers	25,789	95%	24,500	See notes.	13.8	1.175	38.0%
Lower Granite	1-3	90'	76'	-41'	312"	380.5	Westinghouse	142,105	95%	135,000	155,250	13.8	1.175	43.0%
Lower Granite	4-6	90'	76'	-41'	312"	380.5	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
Lower Monumental	1-3	90'	76'	-40.5'	312"	1,075	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
Lower Monumental	4-6	90'	76'	-40.5'	312"	1,250	General Electric	142,105	95%	135,000	155,250	13.8	1.175	43.0%
McNary	1-12	86'	59.5'	-8.5'	280"	320	General Electric	73,684	95%	70,000	80,500	13.8	1.900	32.0%
McNary	13 & 14	86'	59.5'	-8.5'	280"	320	See notes.	73,684	95%	70,000	80,500	13.8	1.900	32.0%
McNary	SS 1 & 2	27'	38'	-4'	63.6"	50	Elec. Mach. Corp.	3,750	80%	3,000	3,000	416V	1.000	35.0%
Miller's Ferry	1-3	80'	28'	16'	267"	60	Westinghouse	26,316	95%	25,000	28,750	13.8	1.175	52.0%
Narrows	1 & 2	32'	18'	7'	83"	87.3	Elliott	9,444	90%	8,500	8,500	13.8	1.100	43.0%
Narrows	3	32'	18'	7'	83"	87.3	Westinghouse	9,444	90%	8,500	9,775	13.8	1.100	43.0%
Norfork	1 & 2	54'	32'	10'	145.5"	495.5	Westinghouse	38,889	90%	40,000	46,000	13.8	1.100	43.0%
Oahe	1-7	76'	44'	4'	204"	142.5	General Electric	89,474	95%	85,000	97,750	13.8	1.175	42.0%
Old Hickory	1-4	80'	60'	8'	264"	855.5	General Electric	31,250	80%	25,000	29,000	13.8	1.000	48.0%
Ozark	1-5	65'	39.78'	-14.7'	315"	745	General Electric	21,053	95%	20,000	23,000	13.8	1.175	50.0%
Phillpott	1 & 2	32'	18.5'	3.7'	64.97"	34	General Electric	7,500	90%	6,750	7,760	13.8	1.100	43.0%
Phillpott	3	22.833'	18.5'	4.4'		4.55	General Electric	750	80%	600	690	500V	1.000	
Phillpott	SS 1						General Electric	750	80%	600	690	500V		
R.D. Willis	1 & 2	25'	24'		110"		Canadian Gen. Elec.	4,444	90%	3.7	4	4.1		
Richard B. Russell	1-4	80'	53'	12.5'	197.19"	60	Siemens	78,947	95%	75,000	75,000	13.8	1.450	
Richard B. Russell	5-8	80'	44.67'	12.5'	228"	109.75	GEC-Alstron	94,500	95%	75,000	85,000	13.8	1.180	
Robert S. Kerr	1-4	87'	67'	8'	290"	242.5	General Electric	28,947	95%	27,500	31,625	13.8	1.175	42.0%

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Note: Before using any dimensionsal data, consult the equipment drawings.

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Powerplant	Units	WK^2	Gen. Dia.	Gen. Wt. (tons)	Power on Line	Rewind Mfr.	Rewind Capacity	Rewind Above Cap.	Rewind Date
Gavin's Point	1-3	80,200,000	47.83'	317	See notes.	Magnetik	44099 KW	50714 KW	All three unints 1987-1990.
Green Peter	1 & 2	22,000,000	32.17'	342.5					
Green Peter	F 1	5,350				RAM Inc.			1/1/86
Greers Ferry	1 & 2	40,000,000	38'	424	See notes.				
Harry S. Truman	1-6	27,600,000	40'	328	Dec-79				
Hartwell	1-4	96,000,000	44'	615					
Hartwell	5	77,614,000							
Hill's Creek	1 & 2	1,600,000	21.67'	113					
Ice Harbor	1-3	156,500,000	49'	1,013	See notes.				
Ice Harbor	4-6	205,208,000	54'	915	See notes.				
Island Creek	1-3		10.33'						
J. Percy Priest	1	28,000,000	38.5'	310					
J. Strom Thurmond	1-7	56,000,000	41'	569	See notes.				
Jim Woodruff	1-3	Rotor: 20,000,000	37.83'	267.5	See notes.				
John Day	1-16	245,000,000	54'	1,164					
John Day	1-4 Rew'd		54'	1,164	See notes.	Canadian General Electric	135,000	155,250	1/1/86
John Day	6-11 Rew'd		54'	1,164	See notes.	Canadian General Electric	135,000	155,250	1/1/86
John Day	13 Rew'd		54'	1,164	01/11/85	Canadian General Electric	135,000	155,250	1/1/86
John Day	15 Rew'd		54'	1,164	11/16/92	Canadian General Electric	135,000	155,250	1/1/86
John H. Kerr	SS A & B	41,850	7.83'	17	See notes.				
John H. Kerr	1	7,500,000	31.67'	170	12/15/52				
John H. Kerr	2-5	60,000,000	42.5'	215	See notes.				
John H. Kerr	6 & 7	60,000,000	42.5'	215	See notes.				
Jones Bluff	1-4	Rotor: 29,440,000	39.33'	285	See notes.				
Jones Bluff	1-4	Rotor: 29,440,000	39.33'	285	See notes.	Magnetek	21,500 KVA	21,500 KVA	See notes
Keystone	1 & 2	30,200,000	38.17'	401.5	See notes.				
Laurel	1	46,650,000	39.67'	421	Oct-77				
Libby	1-4	97,500,000	41'	583		General Electric	105,000	120,000	1/1/82
Libby	1-5	84,362,000	45'	664.2		General Electric	105,000	120,000	1/1/82
Little Goose	1-3	245,000,000	54'	1,161	See notes.				
Little Goose	4-6	241,300,000	54'	1,176	See notes.				
Lookout Point	1-3	26,450,000	37'	454.8					
Lost Creek	1 & 2	7,100,000	24' x 36'	106	See notes.				
Lower Granite	1-3	245,000,000	54'	561	See notes.	NEC			1/1/81
Lower Granite	4-6	241,000,000	54'	561					
Lower Monumental	1-3	245,000,000	54'	1,161					
Lower Monumental	4-6	241,000,000	54'	1,090					
McNary	1-12	130,000,000	51.67'	1,200					
McNary	13 & 14	168,000,000	51.67'	1,165	See notes.	General Electric	73,700	84,700	1/1/73
McNary	SS 1 & 2	3,600,000	17.58' Max.	50.5					
Miller's Ferry	1-3	Rotor: 49,000,000	39.5'	396	See notes.				
Narrows	1 & 2	2,000,000	22'	95	See notes.				
Narrows	3	2,000,000	21.5'	91	See notes.				
Norfork	1 & 2	130,000,000	36.33'	386.5	See notes.	Westinghouse	36,250	41,700	U1, 02/08/79
Oahe	1-7	165,000,000	49'	826.5		General Electric	112,290	12,290	See notes.
Old Hickory	1-4	70,000,000	45.67'	559.5					
Ozark	1-5	600,000	11.83'	113.5					
Phillpott	1 & 2	1,000,000	15',92'	93	See notes.				
Phillpott	3	9,000	6.25'	10.9	8/7/53				
Phillpott	SS 1		6.25'	11					
R.D. Willis	1 & 2	Rotor: 547,170	12'	47.76					
Richard B. Russell	1-4	64,000,000	27.38'	300	1985				
Richard B. Russell	5-8	90,500,000	29.42'	290	See notes.				
Robert S. Kerr	1-4	61,500,000	44.67'	451	See notes.				

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Powerplant	Units	Notes
Gavin's Point	1-3	POL: U1,09/10/56; U2,10/15/56; U3,01/09/57.
Green Peter	1 & 2	
Green Peter	F 1	
Greers Ferry	1 & 2	POL: U1,03/64; U2,05/64.
Harry S. Truman	1-6	Formally "Kaysinger Bluff".
Hartwell	1-4	
Hartwell	5	
Hill's Creek	1 & 2	
Ice Harbor	1-3	POL: U1,12/18/61; U2,02/27/62; U3,02/08/62.
Ice Harbor	4-6	POL: U4,11/24/75; U5,11/18/75; U6,01/07/76.
Island Creek	1-3	See Pumping Data.
J. Percy Priest	1	
J. Strom Thurmond	1-7	POL: U1,01/05/53; U2,02/23/53; U3,05/28/53; U4,10/06/53; U5,01/26/54; U6,05/27/54; U7,07/28/54. Formally "Clark Hill".
Jim Woodruff	1-3	POL: U1,02/01/57; U2,03/01/57; U3,04/26/57.
John Day	1-16	
John Day	1-4 Rew'd	POL: U1,09/19/87; U2,1/25/87; U3,12/04/90; U4,12/14/84.
John Day	6-11 Rew'd	POL: U6,03/21/89; U7,07/02/89; U8,03/16/89; U9,07/19/85; U10,09/19/83; U11,03/09/90.
John Day	13 Rew'd	
John Day	15 Rew'd	
John H. Kerr	SS A & B	POL: A,09/30/52; B,09/27/52.
John H. Kerr	1	Rewind: U1,17 JUNE 1995?
John H. Kerr	2-5	POL: U2,03/21/53; U3,11/15/52; U4,01/20/53; U5,08/21/53.
John H. Kerr	6 & 7	POL: U6,10/27/57; U7,12/05/53.
Jones Bluff	1-4	POL: U1,06/27/75; U2,07/15/75; U3,09/05/75; U4,10/24/75. Associated with the Robert F. Henry Lock & Dam.
Jones Bluff	1-4	Rewind dates: U1,06/27/95; U2,02/16/97; U3,01/13/96; U4,07/31/96. Associated with the Robert F. Henry Lock & Dam.
Keystone	1 & 2	POL: U1,05/21/68; U2,05/02/68.
Laurel	1	
Libby	1-4	Rewinds: U1 - U4.
Libby	1-5	Rewind: U5.
Little Goose	1-3	POL: U1,03/26/70; U2,10/30/70; U3,12/08/70.
Little Goose	4-6	POL: U4,01/25/78; U5,05/19/78; U6,07/05/78.
Lookout Point	1-3	
Lost Creek	1 & 2	Runner+Shaft: 38960lbs; Max. KW 1.15x24500=28175; Mech. Cap.=29657; POL: U1,07/06/77; U2,07/15/77; DT Bott. EL 1525'.
Lower Granite	1-3	POL: U1,03/15/75; U2,05/08/75; U3,06/24/75.
Lower Granite	4-6	POL: U4,12/15/77; U5,02/01/78; U6,03/01/78.
Lower Monumental	1-3	POL: U1,05/28/69; U2,09/08/69; U3,01/06/70.
Lower Monumental	4-6	POL: U4,01/18/79; U5,02/03/79; U6,04/23/79.
McNary	1-12	POL: U1,11/06/53; U2,12/28/53; U3,04/10/54; U4,06/16/54; U5,09/23/54; U6,12/30/54; U7,02/28/55; U8,04/28/55; U9,07/28/55; U10,01/12/55; U12,04/05/56.
McNary	13 & 14	POL: U13,08/30/56; U14,12/18/56. Gen. Mfr.: English Electric Export & Trading Co.
McNary	SS 1 & 2	
Miller's Ferry	1-3	POL: U1,04/15/70; U2,04/20/70; U3,05/27/70.
Narrows	1 & 2	POL: U1 & U2, MAY1950.
Narrows	3	POL: U3,09/11/69.
Norfork	1 & 2	POL: U1,02/08/50; U2,07/46.
Oahe	1-7	Rewind Dates: U1,12/86; U2,12/85; U3,05/85; U4,04/84; U6,05/86; U7,06/84.
Old Hickory	1-4	
Ozark	1-5	
Phillpott	1 & 2	POL: U1,09/14/53; U2,09/07/53.
Phillpott	3	
Phillpott	SS 1	
R.D. Willis	1 & 2	Type: Horizontal Standardized Double Regulated "S" Turbine. Formally "Town Bluff Dam".
Richard B. Russell	1-4	
Richard B. Russell	5-8	Installed: 6/93; (Under going acceptance testing as of 12/94.)
Robert S. Kerr	1-4	POL: U1,07/71; U2,09/71; U3,10/71; U4,11/71.

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Powerplant	Units	Division	District	Type	River, County, State	Turbne Mfr.	HP	RPM	Rated Head	Max. Head	Min. Head
Sam Rayburn	1 & 2	CESWD	Fort Worth	Kaplan	Angelina River, Jasper Co, TX	Allis-Chalmers	41,300	120	70'	88'	53'
St. Mary's Falls	1-3	CENCD	Detroit	Fixed Blade Prop.	St. Mary's Rr, Chippewa Co, MI	Allis-Chalmers	6,975	80	21'	22.6'	18.3'
St. Mary's Falls	3A	CENCD	Detroit	Kaplan	St. Mary's Rr, Chippewa Co, MI	S. Morgan Smith	3,000	128.6	18.3'	22.6'	18.3'
St. Mary's Falls	10	CENCD	Detroit	Fixed Blade Prop.	St. Mary's Rr, Chippewa Co, MI	Allis-Chalmers	3,000	128.6	20'	22.6'	18.3'
St. Stephens	1-3	CESAD	Charleston	Fixed Blade Prop.	Santee/Cooper Rrs, Berkeley Co, SC	Allis-Chalmers	39,000	100	49'	57.9'	44.3'
Stockton	1	CEMRD	Kansas City	Kaplan	Sac River, Cedar Co, MO	Newport News Shipbldg. & Drydk. Co.	71,800	75	81'	108'	77'
Table Rock	1-4	CESWD	Little Rock	Francis	White River, Taney Co, MO	English Elect. Export & Trading Co.	68,000	128.6	190'	228'	134'
Tenkiller Ferry	1 & 2	CESWD	Tulsa	HYDRO	Illinois River, Cherokee Co, OK	S. Morgan Smith	23,500	150	132'	181'	103.5'
The Dalles	1-14	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Baldwin-Lima-Hamilton	123,000	85.7	81'	90.5'	60'
The Dalles	15-22	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Baldwin-Lima-Hamilton	136,000	80	73'	90'	58'
The Dalles	F 1 & 2	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Allis-Chalmers	18,800	200	74'	88'	55'
The Dalles	SS 1 & 2	CENPD	Portland	Francis	Columbia River, Wasco Co, OR	Pelton	4,500	277	81'	90.5'	60'
The Dalles	5 Rew'd	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Baldwin-Lima-Hamilton	123,800	85.7	81'	90.5'	60'
The Dalles	12 Rew'd	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Baldwin-Lima-Hamilton	123,800	85.7	81'	90.5'	60'
The Dalles	13 Rew'd	CENPD	Portland	Kaplan	Columbia River, Wasco Co, OR	Baldwin-Lima-Hamilton	123,800	85.7	81'	90.5'	60'
Walter F. George	1-4	CESAD	Mobile	Kaplan	Chattahoochee Rr, Henry Co, AL	Newport News Shipbldg. & Drydk. Co.	45,500	112.5	70'	88'	37'
Webber's Falls	1-3	CESWD	Tulsa	Kaplan (Tube Type)	Arkansas River, Muskogee Co, OK	Allis-Chalmers	33,800	60.2	26.5' to 31'	31'	17'
West Point	1	CESAD	Mobile	Fixed Blade Prop.	Chattahoochee Rr, Troup Co, GA	James Leffel	5,400	327	77'	77'	62'
West Point	2 & 3	CESAD	Mobile	Fixed Blade Prop.	Chattahoochee Rr, Troup Co, GA	Newport News Shipbldg. & Drydk. Co.	51,500	100	58'	73'	52'
Whitney	1 & 2	CESWD	Fort Worth	Francis	Brazos River, Bosque Co, TX	Newport News Shipbldg. & Drydk. Co.	20,700	128.6	91.5'	126'	77.5'
Wolf Creek	SS	CEORD	Nashville	Francis	Cumberland Rr, Russell Co, KY	James Leffel	2,000	600	160'	214'	111'
Wolf Creek	1-3	CEORD	Nashville	Francis	Cumberland Rr, Russell Co, KY	Baldwin-Lima-Hamilton	62,500	105.9	160'	214'	111'
Wolf Creek	4-6	CEORD	Nashville	Francis	Cumberland Rr, Russell Co, KY	Baldwin-Lima-Hamilton	62,500	105.9	160'	214'	111'

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Powerplant	Units	Unit Spacing	Cl Dist. to Df. Tb.	Cl Dist. to Min. Tw	Discharge Dia.	Turb. Wt.(tons)	Generator Mfr.	KVA	PF	KW	Max. KW	KV	SC Ratio	Reactance
Sam Rayburn	1 & 2	57'	45.5'	85.8'	180"	293.8	Westinghouse	27,368	95%	26,000	26,000	13.8	1.175	44.0%
St. Mary's Falls	1-3	54'	42'	8.9'			General Electric	See notes.	90%	5,000	5,000	13.8	1.100	40.0%
St. Mary's Falls	3A	28'	31'	-0.9'	110"		General Electric	3,125	80%	2,500	2,500	4.2	1.000	36.0%
St. Mary's Falls	10	28'	21.2'	5'	114"		General Electric	2,500	80%	2,000		4	1.400	.24-.26%
St. Stephens	1-3	70'	52'	-1.6'	222"	46	Westinghouse	31,111	90%	28,000	28,000	13.8		
Stockton	1		71'	12'	280"	320	General Electric	47,579	95%	45,200	51,980	13.8	1.175	37.0%
Table Rock	1-4	54'	36'	7.2'	159.5"	36	Westinghouse	52,632	95%	50,000	57,500	13.8	1.175	41.0%
Tenkiller Ferry	1 & 2	42'	See notes.	7.9'	116.13"	98	Elliott	20,579	95%	19,550	22,500	13.8	1.700	44.0%
The Dalles	1-14	86'	70.7'	-16'	280"	1,085	General Electric	82,105	95%	78,000	89,000	13.8	1.175	44.0%
The Dalles	15-22	86'	70.7'	-14'	300"	1,085	General Electric	90,500	95%	85,975	99,000	13.8	1.175	44.0%
The Dalles	F 1 & 2	40'	35.5'	-14.5'	120"	167.5	Westinghouse	14,210	95%	13,500	14,000	13.8	1.175	43.0%
The Dalles	SS 1 & 2	27'	50.3'	-5.5'	63.5"	42.5	Elec. Mach. Corp.	3,750	80%	3,000	3,000	4.2	1.000	Normal
The Dalles	5 Rew'd	86'	70.7'	-16'	280"	1,085	General Electric	82,105	95%	78,000	89,000	13.8	1.175	44.0%
The Dalles	12 Rew'd	86'	70.7'	-16'	280"	1,085	General Electric	82,105	95%	78,000	89,000	13.8	1.175	44.0%
The Dalles	13 Rew'd	86'	70.7'	-16'	280"	1,085	General Electric	82,105	95%	78,000	89,000	13.8	1.175	44.0%
Walter F. George	1-4	67'	45.5'	1.2'	196"	150	Elliott	36,111	90%	32,500	37,375	13.8	1.100	37.0%
Webber's Falls	1-3	65'	42.5'	14.5'	215"	745	General Electric	21,053	95%	20,000	23,000	13.8	1.175	32.0%
West Point	1	61.5'	18'	5'	72"	4.5	General Electric	3,750	90%	3,375	3,881	13.8	1.642	37.0%
West Point	2 & 3	77'	52'	3'	230.63"	49	General Electric	36,842	95%	35,000	40,250	13.8	1.176	38.0%
Whitney	1 & 2	46'	30'	8.5'	130.75"	20	Allis-Chalmers	16,667	90%	15,000	15,000	13.8	1.100	45.0%
Wolf Creek	SS		17'	8'	324.69"		Elliott	1,500	80%	1,200	1,500	480V		
Wolf Creek	1-3	58'	38'	7'	175"	55	General Electric	50,000	90%	45,000	57,500	13.8	1.100	43.0%
Wolf Creek	4-6	58'	38'	7'	175"	55	General Electric	50,000	90%	45,000	57,500	13.8	1.100	43.0%

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Powerplant	Units	WK^2	Gen. Dia.	Gen. Wt. (tons)	Power on Line	Rewind Mfr.	Rewind Capacity	Rewind Above Cap.	Rewind Date
Sam Rayburn	1 & 2	20,700,000	32.67'	303					
St. Mary's Falls	1-3	8,750,000	25.92'	156.5		General Electric			Begin 08/94
St. Mary's Falls	3A	1,500,000	17.3'	62.5					Begin 1995
St. Mary's Falls	10	1,500,000	16.33'			NEC	3,250	3,250	6/14/88
St. Stephens	1-3	27,600,000	32'	334	Jan-85		3,250	NEC	
Stockton	1	86,500,000	48'	415.3					
Table Rock	1-4	40,000,000	38'	438	See notes.				
Tenkiller Ferry	1 & 2	8,500,000	19.58'	75.5	1951	U1,Nat'l Coil;U2,West'gh'se	19,500	See notes.	U1,05/20/83; U2,1978
The Dalles	1-14	138,000,000	50.67'	949					
The Dalles	15-22	163,000,000	50.33'	807.9					
The Dalles	F 1 & 2	2,900,000	24.58'	165					
The Dalles	SS 1 & 2	300,000	16' Max.	50.5					
The Dalles	5 Rew'd	138,000,000	50.67'	949	01/13/92				
The Dalles	12 Rew'd	138,000,000	50.67'	949	06/02/82				
The Dalles	13 Rew'd	138,000,000	50.67'	949	08/09/88				
Walter F. George	1-4	Rotor: 40,730,000	36'	464.5	See notes.				
Webber's Falls	1-3	600,000	11.83'	115	See notes.				
West Point	1	Rotor: 275,000	16'	43.9	4/10/75				
West Point	2 & 3	Rotor: 35,200,000	42'	289.9	See notes.				
Whitney	1 & 2	11,000,000	33'	215.5	7/1/53				
Wolf Creek	SS		6.65'	12	9/18/51				
Wolf Creek	1-3	55,000,000	40'	560	See notes.				1/1/86
Wolf Creek	4-6	55,000,000	40'	560	See notes.				1/1/86

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Powerplant	Units	Notes
Sam Rayburn	1 & 2	
St. Mary's Falls	1-3	5333 x 1.15 = 6132
St. Mary's Falls	3A	
St. Mary's Falls	10	
St. Stephens	1-3	
Stockton	1	
Table Rock	1-4	POL: U1,05/22/59; U2,05/21/59; U3,04/21/61; U4,06/16/61.
Tenkiller Ferry	1 & 2	CL: 27' to bott. elbow of Df Tb. Rewind Over Cap: U1 & U2, 15% 23,600 KVA; 27' to bottom of draft tube.
The Dalles	1-14	
The Dalles	15-22	
The Dalles	F 1 & 2	
The Dalles	SS 1 & 2	
The Dalles	5 Rew'd	
The Dalles	12 Rew'd	
The Dalles	13 Rew'd	
Walter F. George	1-4	POL: U1,03/13/63; U2,05/10/63; U3,08/20/63; U4,09/27/63.
Webber's Falls	1-3	POL: U1,08/73; U2,09/73; U3,11/73.
West Point	1	
West Point	2 & 3	POL: U2,04/10/75; U3,03/10/75.
Whitney	1 & 2	
Wolf Creek	SS	
Wolf Creek	1-3	POL: U1,08/20/52; U2,07/24/52; U3,03/17/52.
Wolf Creek	4-6	POL: U4,12/16/51; U5,10/31/51; U6,10/06/51.

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Powerplant	Units	Division	District	Type	River, County, State	Turbne Mfr.	HP	RPM	Rated Head	Max. Head	Min. Head
Carter's	3 & 4	CESAD	Mobile	Francis	Coosawattee Rr, Murray Co, GA	Allis-Chalmers	173,000	150	345'	403'	315'
Clarence Cannon	2	CELMV	St. Louis	Francis	Salt River, Ralls Co, MO	Allis-Chalmers	42,900	75	75'	107'	69'
De Gray	2	CELMV	Vicksburg	Francis	Caddo River, Clark Co, AR	Newport News Shipbldg. & Drydk. Co.	43,240	128.5	171'	216'	144'
Harry S. Truman	1-6	CEMRD	Kansas	Adj. Blade & Incl. Axis	Osage River, Benton Co, MO	Baldwin-Lima-Hamilton	42,400	100	42.5'	79.2'	41'
Island Creek	1-3	CESAD	Wilmington	Axial & Adj. Blade	Roanoke River, Mechlenburg Co, VA	S. Morgan Smith	1,250	600	40'	50'	
Richard B. Russell	5 - 8	CESAD	Savannah	Francis	Savannah River, Elbert Co, GA	Dominion Engineering Works	123,400	120	144'	162'	139'
Robert F. Henry					Alabama River, Lowndes Co, AL						

Powerplant	Units	Unit Spacing	Cl Dist. to Df. Tb.	Cl Dist. to Min. Tw	Cl Dist. to Min. Tw Pump	Dischar Dia.	Inlet Dia.	Turb. Wt.(tons)	Pump HP	Pump Cfs
Carter's	3 & 4	63'	33'	-22'	-21'	170"	248"	40	185,000	4,435
Clarence Cannon	2	82'	50'	-9'	0'	231"	270.4"	1,036		5,500
De Gray	2	49'	216'-184', bott. 32'	210' min. to 223' top	-1'	194.38""	135.8"	69.5	44,500	1,900
Harry S. Truman	1-6	52'	30.9'	20'	-26'	255.6"	254"	136	42,500	4,500
Island Creek	1-3	14'				57"		1,000	1,250	210
Richard B. Russell	5 - 8									
Robert F. Henry										

Powerplant	Units	Pump Hd.	Pump Max. Hd.	Pump Min. Hd.	Notes
Carter's	3 & 4	347'	403'	315'	
Clarence Cannon	2	60'	75'	60'	
De Gray	2	171'	190'	150'	Pump runs between 215' to 408'.
Harry S. Truman	1-6	50'	50'	44.5'	Formally "Kaysinger Bluff".
Island Creek	1-3	40'	50'		Pumps water into the John H. Kerr Dam.
Richard B. Russell	5 - 8	148'	161'	141'	
Robert F. Henry					

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Note: Before using any dimensional data, consult the equipment drawings.
File: Pump.xls