April 07, 2000

COORDINATION CONTRACT COMMITTEE

M. Cashell	Montana Power Company	Butte, Montana
C. Persichetti	PacifiCorp Electric Operations	Portland, Oregon
M.M. Huntsinger	Portland General Electric Co	Portland, Oregon
S. Muchlinski	Puget Sound Energy	Bellevue, Washington
S. Silkworth	Avista Corporation	Spokane, Washington
W.G. Dearing	Chelan County PUD #1	Wenatchee, Washington
J.A. Speer	Colockum Transmission Co., Inc	Wenatchee, Washington
R. Noteboom	Grant County PUD #2	Ephrata, Washington
C.E. Wagers, Jr.	Douglas County PUD #1	E. Wenatchee, Washington
R.L. Arkills	Pend Oreille County PUD #1	Newport, Washington
J.C. Whaley	Seattle City Light	Seattle, Washington
P. Morisette	Tacoma Power	Tacoma, Washington
B. Dunn	Eugene Water & Electric Board	Eugene, Oregon
E.King	Bonneville Power Administration	Vancouver, Washington
B. Tanovan	U.S. Corps of Engineers	Portland, Oregon
R. Wisco	U.S. Bureau of Reclamation	Portland, Oregon
D.P. Robinson	Cowlitz County PUD #1	Longview, Washington
B.J. Beck	Snohomish County PUD #1	Everett, Washington

Enclosed are the April 2000 volume forecast and Variable Energy Content Curve (VECC) for Ross Reservoir. The VECC for Ross is 1526.2 feet as of April 30, 2000.

This data is submitted in accordance with paragraph 9(0)(1) of the Pacific Northwest Coordination Agreement.

Sincerely,

Jay Whaley, Director
Monthly Marketing

JW:ok

Enclosure 3

(VECCOKAPR00.DOC)

bcc:	Backiel	Weber
	Green	Wong
	Whaley	Sachdev
	Dadashi	Sinowitz
	Kjosnes	Rough
	Tinker	Irvin, P
	LRA File	R/File

ROSS VOLUME FORECAST AND ENERGY CONTENT CURVE FOR APR 2000

	FORECAST DATE	. . . .	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	LOWER LIMIT
1	PROBABLE FORECAST (DATE-JULY 31)	(1)KSFD	847.2	874.8	813.6	763.8			
2	95% CONFIDENCE FACTOR	KSFD	294.3	215.5	162	126.3	100.7	97.6	
3	95% FORECAST (DATE-JULY 31)	(2)KSFD	552.9	659.3	651.6	637.5			
	FEB 1 - JUL 31 INFLOW	%	94						
	FEB 1 - JUL 31 INFLOW	(3)KSFD	519.9						
	MIN. FEB 1 - JUL 31 DISCHARGE	KSFD	359.7						
	MIN. JAN 31 CONTENT	(4)KSFD	370.3						
	MIN. JAN 31 ELEVATION	(5)FEET	1573.6						
	BASE ECC	FEET	1530.2						
	JAN 31 VECC	(6)FEET	1530.2						
									1503.7
	MAR 1 - JUL 31 INFLOW	%	88.7	94.8					
	MAR 1 - JUL 31 INFLOW	(3)KSFD	490.5	625.3					
	MIN. MAR 1 - JUL 31 DISCHARGE	KSFD	294	282.5					
	MIN. FEB 28 CONTENT	(4)KSFD	334	187.7					
	MIN. FEB 28 ELEVATION	(5)FEET	1566.4	1534.4					
	BASE ECC	FEET	1520.8	1520.8					
	FEB 28 VECC	(6)FEET	1520.8	1520.8					
									1475
	APR 1 - JUL 31 INFLOW	%	82.3	88.7	93.4				
	APR 1 - JUL 31 INFLOW	(3)KSFD	455.3	584.7	608.4				
	MIN. APR 1 - JUL 31 DISCHARGE	KSFD	217.6	205.5	208				
	MIN. MAR 31 CONTENT	(4)KSFD	292.9	151.3	130.1				
	MIN. MAR 31 ELEVATION	(5)FEET	1558	1525.1	1519.3				
	BASE ECC	FEET	1520.1	1520.1	1520.1				
	MAR 31 VECC	(6)FEET	1520.1	1520.1	1519.3				
									1475
	MAY 1 - JUL 31 INFLOW	%	71.7	77.2	81.3	87.1			
	MAY 1 - JUL 31 INFLOW	(3)KSFD	396.4	509.1	529.8	555.1			
	MIN. MAY 1 - JUL 31 DISCHARGE	KSFD	128.8	117.8	120.1	119.5			
	MIN. APR 30 CONTENT	(4)KSFD	262.9	139.2	120.8	94.9			
	MIN. APR 30 ELEVATION	(5)FEET	1551.4	1521.8	1516.8	1509.7			
	BASE ECC	FEET	1526.2	1526.2	1526.2	1526.2			
	APR 30 VECC	(6)FEET	1526.2	1521.8	1516.8	1509.7			
									1475
	JUN 1 - JUL 31 INFLOW	%	45.9	49.5	52.1	55.8			
	JUN 1 - JUL 31 INFLOW	(3)KSFD	254	326.2	339.4	355.6			
	MIN. JUN 1 - JUL 31 DISCHARGE	KSFD	82.5	74.3	76	75.6			
	MIN. MAY 31 CONTENT	(4)KSFD	359	278.6	267.1	250.4			
	MIN. MAY 31 ELEVATION	(5)FEET	1571.3	1554.9	1552.3	1548.7			
	BASE ECC	FEET	1572.1	1572.1	1572.1	1572.1			
	MAY 31 VECC	(6)FEET	1571.3	1554.9	1552.3	1548.7			
									1475
	JUL 1 - JUL 31 INFLOW	%	16.9	18.2	19.2	20.6			
	JUL 1 - JUL 31 INFLOW	(3)KSFD	93.6	120.2	125.1	131			
	MIN. JUL 1 - JUL 31 DISCHARGE	KSFD	43.8	39.7	40.5	40.3			
	MIN. JUN 30 CONTENT	(4)KSFD	480.7	450	446	439.8			
	MIN. JUN 30 ELEVATION	(5)FEET	1593.7	1588.3	1587.5	1586.4			
	BASE ECC	FEET	1596.1	1596.1	1596.1	1596.1			
	JUN 30 VECC	(6)FEET	1593.7	1588.3	1587.5	1586.4			
									1475
	JUL 31 ECC	FEET	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	

* MINIMUM DISCHARGE IS .0 CFS BASED ON 100.0 MAF AT DALLES, MIN FISH FLOWS MAY GOVERN

(1) FROM SNOW SURVEY

(2) LINE 1 - LINE 2

(3) PRECEEDING LINE X LINE 3

(4) FULL CONTENT (530.5 KSFD) PLUS PRECEEDING LINE LESS LINE PRECEEDING THAT

(5) FROM ROSS RESERVOIR STORAGE TABLE

(6) LOWER OF (5) OR BASE ECC BUT NOT LESS THAT LIMIT

City of Seattle - City Light Department

Skagit River Snow Survey April 1,2000
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(Inches of Water Content)

course	elev feet	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Harts Pass	6500	61.1	67.9	33.3	70.1	50.7	63.0	22.0	47.4	31.9	39.6	30.6	45.1	42.2	23.1	33.5
Blackwall Peak	6365	47.5	56.9	25.2	49.3	35.4	47.8	19.4	30.9	24.4	30.4	22.8	35.1	34.5	24.9	28.1
Brown Top Mt	6000	57.2	69.9	34.0	67.2	51.0	65.8	21.7	43.8	32.4	37.1	29.0	45.4	38.6	27.6	34.6
Devils Park	5900	84.6	97.2	50.0	90.2	71.8	95.0	30.4	55.0	35.6	47.2	39.0	65.6	53.2	46.8	50.8
Rainy Pass	4780	57.6	65.6	30.8	63.2	46.4	54.2	22.8	43.4	28.0	33.0	23.1	42.0	35.4	30.0	34.0
Thunder Basin	4200	32.0	35.8	15.5	35.8	39.2	24.9	11.5	18.4	19.9	13.4	5.2	24.4	18.5	10.8	21.2
Lightning Lake	4000	18.9	23.4	7.9	16.1	11.3	19.0	5.5	10.3	10.8	10.6	5.9	15.1	10.3	7.5	10.1
Klesilkwa (BC)	3700	25.4	31.1	6.8	21.6	21.6	30.6	7.4	5.0	9.1	8.3	.0	19.9	7.9	1.5	13.0
Beaver Pass	3680	50.6	49.7	19.0	55.1	34.6	43.9	9.9	20.9	19.1	22.6	5.7	36.2	28.6	17.9	28.0
Granite Creek	3500	29.4	31.4	11.4	24.6	22.2	27.4	9.8	13.8	13.8	14.3	6.4	20.2	15.8	9.2	17.6
Freezeout Cr Tr	3500	23.8	21.3	9.2	19.2	15.4	17.6	4.8	5.9	11.1	9.8	.3	14.6	8.7	4.8	13.0
Hozomeen Lake	2600	20.4	13.4	3.1	17.8	16.0	18.3	4.1	4.7	10.8	10.2	.0	12.7	6.0	1.5	12.5
New T/Sumallo R	2600	22.7	26.6	3.6	17.6	20.0	21.8	7.1	8.5	14.1	11.2	.0	14.1	4.5	1.9	14.3
Beaver Cr Tr	2200	31.1	19.9	3.6	18.2	22.8	25.5	3.6	6.2	10.1	8.9	.0	15.4	6.3	1.2	12.0
Meadow Cabins	1900	11.4	14.4	1.0	2.8	10.1	12.8	1.1	1.5	5.8	1.6	.0	6.6	.0	.0	5.8
Average		38.2	41.6	17.0	37.9	31.2	37.8	12.1	21.0	18.5	19.9	11.2	27.5	20.7	13.9	21.9

course	elev feet	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	avg.
Harts Pass	6500	34.4	35.1	33.3	36.7	40.9	54.4	34.4	28.4	30.7	46.9	44.0	47.3	37.7	66.3	42.4	44.4
Blackwall Peak	6365	32.6	32.7	****	30.6	****	56.4	26.4	21.7	23.2	33.7	34.0	42.5	26.3	50.9	28.9	33.8
Brown Top Mt	6000	41.4	37.0	36.0	36.4	45.0	65.9	44.2	39.6	50.4	66.2	52.5	78.4	55.6	105.4	56.0	47.5
Devils Park	5900	57.6	54.4	53.4	53.4	61.2	84.3	34.6	28.2	33.2	48.4	42.8	55.0	35.0	64.8	42.0	55.4
Rainy Pass	4780	33.6	32.8	37.0	33.8	40.8	47.2	38.6	25.8	31.0	42.4	33.3	48.5	30.0	52.8	37.4	40.1
Thunder Basin	4200	11.4	21.4	22.4	23.4	23.0	21.2	16.2	15.0	20.0	22.4	13.6	36.8	16.4	42.8	23.4	23.7
Lightning Lake	4000	8.4	11.1	****	10.1	13.2	16.3	7.8	3.6	6.1	11.2	13.2	18.2	10.7	21.0	11.4	13.3
Klesilkwa (BC)	3700	2.4	7.8	15.3	14.6	13.5	14.6	.0	4.8	2.9	4.8	1.0	20.8	5.2	21.3	11.7	12.9
Beaver Pass	3680	21.6	26.6	28.2	25.4	29.4	25.3	13.8	18.6	23.4	32.4	15.7	41.0	30.3	58.7	30.3	32.2
Granite Creek	3500	11.2	12.2	18.0	15.8	19.8	20.6	9.0	11.0	12.6	15.2	13.8	27.8	11.6	24.2	20.0	17.0
Freezeout Cr Tr	3500	7.1	11.2	10.6	10.0	12.3	15.5	1.4	8.1	6.8	9.3	4.8	20.0	8.2	22.7	11.6	12.4
Hozomeen Lake	2600	****	7.8	10.3	9.2	9.8	12.3	.0	7.0	5.7	6.2	4.3	20.2	6.3	20.7	9.2	10.0
New T/Sumallo R	2600	9.4	10.2	15.1	12.6	15.1	13.6	.0	6.8	7.5	9.4	.0	20.6	4.3	15.9	9.9	12.1
Beaver Cr Tr	2200	6.1	8.8	9.0	8.1	11.8	9.4	.0	9.9	6.8	10.4	3.8	27.9	6.8	32.7	15.8	12.8
Meadow Cabins	1900	.0	.0	3.3	5.8	6.5	4.3	.0	.9	.8	.0	.0	13.0	.0	7.3	3.8	5.1
Average		19.8	20.6	22.5	21.7	24.4	30.8	15.1	15.3	17.4	23.9	18.5	34.5	19.0	40.5	23.6	

Runoff Forecast at Diablo for 2000

708205 Weighted avg snow runoff
274563 1947-1999 precip equivalent
982768 Total runoff forecast,avg precip
April-August

Snow Runoff Forecast

708205x 100= 95.66o/o of 53 yr avg (1947-1999)
740364

Total Runoff Forecast With Normal precip

982768 x 100= 96.83 o/o of 53 yr avg(1947-1999)
1014927

OK-2000

ROSS PREDICTED STORAGE FROM SNOW SURVEY (2000) PRELIMINARY (IN SFD)

	JAN	FEB	MAR	APR
Feb - Mar (normal runoff)	154,449.00	104,849.00	54,281.00	-
Apr - Aug (forecast runoff - snow survey)	761,151.00	775,809.00	828,886.00	833,396.00
Sept (normal)	41,531.00	41,531.00	41,531.00	41,531.00
Ross Actual Storage (Prv Month End)	642,435.00	513,668.00	399,547.00	311,294.00
Ross ECC (Prv. month end)	524,994.00	362,238.00	326,265.00	294,501.00
TOTAL PREDICTED STORAGE	1,074,572.00	1,073,619.00	997,980.00	891,720.00
Normal Storage for same period	1,038,492.00	988,892.00	938,324.00	884,043.00
% OF PREDICTED TO NORMAL	103.47%	108.57%	106.36%	100.87%

Elevation on last day of previous month				
Ross actual (ft)	1,588.47	1,553.92	1,539.03	1,516.71
Ross ECC/VECC (ft)	1,566.20	1,530.30	1,520.80	1,511.90
Diff (ft)	22.27	23.62	18.23	4.81

City of Seattle - City Light Department
Skagit River Snow Survey April 1,2000
Runoff Pattern-Five Months
****

April through August
53 yr. avg. 1947-99 Inclusive

	Ross (1947-99 avg.)		Diablo (1947-99 avg.)	
Month	sfd	o/o	sfd	o/o
April	101954	11.85	113437	11.18
May	246839	28.68	275107	27.11
June	277882	32.29	318929	31.42
July	162151	18.84	203759	20.08
August	71841	8.35	103692	10.22
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Total	860668	100.00	1014927	100.00

Ratio of Ross runoff to Diablo runoff= .84801

2000 Runoff Forecast Distributed in Same Pattern
Average Precipitation

	Ross			Diablo		
	1947-99	2000 runoff est.		1947-99	2000 runoff est.	
month	0/0	SFD	CFS	0/0	SFD	CFS
April	11.85	98723	3290	11.18	109842	3661
May	28.68	239017	7710	27.11	266389	8593
June	32.29	269076	8969	31.42	308823	10294
July	18.84	157012	5064	20.08	197302	6364
Sub-Total		763828			882356	
August	8.35	69564	2244	10.22	100406	3238
Total	100.00	833396 =	5447	100.00	982768 =	6423
		153 days			153 days	

OK-2000

ROSS PREDICTED STORAGE FROM SNOW SURVEY (2000) PRELIMINARY (IN SFD)

	JAN	FEB	MAR	APR
Feb - Mar (normal runoff)	154,449.00	104,849.00	54,281.00	-
Apr - Aug (forecast runoff - snow survey)	761,151.00	775,809.00	828,886.00	833,396.00
Sept (normal)	41,531.00	41,531.00	41,531.00	41,531.00
Ross Actual Storage (Prv Month End)	642,435.00	513,668.00	399,547.00	311,294.00
Ross ECC (Prv. month end)	524,994.00	362,238.00	326,265.00	294,501.00
TOTAL PREDICTED STORAGE	1,074,572.00	1,073,619.00	997,980.00	891,720.00
Normal Storage for same period	1,038,492.00	988,892.00	938,324.00	884,043.00
% OF PREDICTED TO NORMAL	103.47%	108.57%	106.36%	100.87%

Elevation on last day of previous month				
Ross actual (ft)	1,588.47	1,553.92	1,539.03	1,516.71
Ross ECC/VECC (ft)	1,566.20	1,530.30	1,520.80	1,511.90
Diff (ft)	22.27	23.62	18.23	4.81