Department of Energy

Bonneville Power Administration
P.O. Box 491
Vancouver, Washington 98666-0491

TRANSMISSION BUSINESS LINE

July 23, 2001

In reply refer to: TM

Mr. Gary Zarker, Superintendent
Seattle City Light
700 Fifth Avenue, Suite 3300
Seattle, WA 98104-5031

Dear Mr. Zarker:

This is in response to your June 8, 2001, letter requesting information regarding the May 22nd curtailment of Boundary Generating Station (Boundary) due to transfer limits on the West of Hatwai cutplane. You asked the Bonneville Power Administration (BPA) Transmission Business Line (TBL) to consider your request "to be a formal request for the release of specific data and information under the Freedom of Information Act (FOIA) if that expedites this matter."

Several of the items from the attachment to your letter were determined not to constitute valid FOIA requests. Specifically the items that we determined did not constitute valid FOIA requests were numbers 1, 2, 3, 13, 15, and 16. BPA's response to the FOIA request indicated that the BPA TBL would respond to those items under separate cover. The TBL's response to these items is enclosed. In addition to this hard-copy response, we will be providing Paula Green with an electronic version of the responses.

As you are undoubtedly aware, TBL staff has had discussions and negotiations with the Colstrip owners regarding remedial action schemes (RAS) in the form of Colstrip generator dropping to support the West of Hatwai cutplane operational transfer capability (OTC). At present, that has resulted in a verbal agreement by the Colstrip owners to allow operation of RAS at Colstrip to support a higher OTC for the West of Hatwai cutplane than would be the case without the Colstrip RAS. That is a day-to-day agreement; there is no formal written agreement.

TBL has had preliminary discussions with Seattle City Light (Seattle) related to additional RAS at Boundary to provide support for the West of Hatwai OTC. Sally Long will be leading more specific discussions with Seattle on this topic for the TBL. In addition, TBL is having discussions with the BPA Power Business Line (PBL) and Avista to add generator dropping at the remaining hydroelectric generators on the east side of the West of Hatwai cutplane, to also provide support

for the West of Hatwai OTC. Further, the TBL is working with Avista to determine whether there are any short-term or mid-term improvements that can be made to benefit the West of Hatwai cutplane.

We have a number of staff in various TBL organizations working on this matter. If you would like to discuss any of these issues further, please feel free to call me at (360) 418-8005 or Sally Long at (360) 418-8285.

Sincerely,

Mark W. Maher
Senior Vice President
Transmission Business Line

Enclosures

cc: Paula Green, Deputy Superintendent
Power Management, Seattle City Light

Seattle City Light Data Requests
West of Hatwai Curtailment 5/22/01

1. Please list all of the firm transmission contracts between BPA and Colstrip owners. For each contract provide the POR, POD, Contract Demand in MW, term of the contract, and type of contract (e.g. PTP, IR, other).

   BPA Response: Attached is a spreadsheet, entitled Colstrip Owner Contract Information on May 22, 2001, that contains the information requested. Please note that power transmitted under Montana Power's transmission agreement does not cross West of Hatwai nor does a portion of the power transmitted under PacifiCorp's transmission agreement.

Colstrip Owner Contract Information on May 22, 2001

Colstrip Utility	Contract number	Type of Contract	Term of Contract: Contract Start	Contract End	POI name	POI demand	POD name	POD demand
Avista Corp - WWP	DE-MS79-81BP90165	FPT	4/18/81	1/1/05	Garrison 500 kV		Hatwai 230 kV	393,000
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16	C. W. Paul 500-AVA	71,000		
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16	Garrison 500 kV	196,000		
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16			Alvey 115-EWEB	10,000
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16			Hatwai 230 kV	7,000
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16			Ross 115 kV	75,000
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16			Sifton 115 kV	75,000
Avista Corp - WWP	96MS-96008	PTP	10/1/96	8/1/16			Snohomish 115 kV	100,000
Montana Power	DE-MS79-81BP90166	FPT	4/18/81	1/1/05	Garrison 500 kV		Garrison 230 kV	420,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05	Garrison 500 kV		Buckley 500 kV	70,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Flathead 34.5-PACW	14,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Libby - PAC 115 kV	1,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Lion Mountain 230 kV	15,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Trumbull Creek 230 kV	14,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Columbia Falls 34.5-PACW	13,000
PacifiCorp	DE-MS79-81BP90168	FPT	4/17/81	1/1/05			Kalispell 34.5-PACW	13,000
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09	Garrison 500 kV	270,000		
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Bethel 230 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Big Eddy 230 - Celilo	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Fairchild North 115 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Forest Grove 115 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Grande Ronde 115 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			John Day Intertie 500 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Keeler 230 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			McLoughlin 230 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Pearl 230 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Rivergate 230 kV	
PGE	DE-MS79-89BP92273	IR	1/1/90	12/31/09			Trojan 230 kV	
Puget Sound Energy	DE-MS79-88BP92461	IR	7/28/88	2/28/11	Westside 230 kV 1/	22,900	Kitsap 115 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14	Garrison 230 kV	94,000		
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14	Garrison 500 kV	663,000		
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Bellingham 115 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Beverly Park 115-SNOH	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Big Eddy 230-Celilo	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Covington 230-PS	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Fairmont 69-PS	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			John Day Intertie 500 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Kitsap 115 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Maple Valley 230-PS	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Monroe 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Olympia 115 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Sedro Woolley 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Sedro Woolley Tap 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			White River 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Big Eddy 500-Celilo	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Christopher Tap	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Custer 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Fairmont 115-PSE	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			Kitsap 230 kV	
Puget Sound Energy	DE-MS79-94BP93947	IR	12/1/94	8/1/14			C.W. Paul_Tono 500 kV - PS	

1/ at the point in the vicinity of the Tower 383 (77/4) in the Government's Coulee-Bell No. 4 Transmission Line where the facilities of the Government and the Utility are connected
(Utility is defined as Avista [WWP])

2. Show how the prorata curtailment was determined for each transmission contract holder subject to the West of Hatwai cutplane schedule curtailment for the hours from 1200 through 1800 on May 22, 2001.

   BPA Response: Attached is a sample worksheet that shows how BPA TBL determines pro-rate shares over the West of Hatwai transmission path at such time as the operational transfer capability (OTC) of West of Hatwai is less than 2800 MW. BPA real-time transmission scheduling staff use the pro-rata share information to notify customers that their transmission schedules must be cut, if the customer has submitted schedules that exceed the pro-rata share numbers. Actual worksheets for May 22, 2001, are not available as these worksheets are used on computer screens as necessary. They are not saved after use.

West of Hatwai
East to West

June
HOURS OF CURTAILMENT: HE 0700 - HE 2400 (other hours at higher capacity)
6/18/2001 ***Do not sell DSTFNR***
West of Hatwai East to West

DO NOT ACCEPT requests for East to West NONFIRM service on a preschedule basis when FIRM curtailments are being made. West to East Non-Firm can be accepted.
NOTE: (Only fill in the yellow boxes. Spreadsheet automatically calculates pro-rata shares)

	(MW)		
Current OTC: (MAX=2800)	2200		*OTC set to Commitments NON-OUTAGE*
Avista's Share	600		
Assumed Firm Netting	100		
BPA TBL's Share	1700	1702	Pro-rata should be equal to TBL's share
Total Commitments	2200	YES	Is there need for prorata curtailment?

Longterm Commitments

Customer A	150	(yearly)	
Customer B	0	(yearly)	(May, June & July contract demand is 0)
Customer C	50	(yearly)	
Customer D	50	(yearly)	
Customer E	200	(yearly)	
Customer F	750	(yearly)	
Customer G	75	(yearly)	
Customer H	875	(yearly)	
Customer I	50	(yearly)	
Total Longterm	2200		

Short-term OASIS	Short term	Do not sell DSTFNR	Total (LT+ST+ DSTFNR)	Pro-rata Share	
Customer A	0		150	116	
Customer B	0		0	0	
Customer C	0		50	39	
Customer D	0		50	39	
Customer E	0		200	155	
Customer F	0		750	580	*gave 579 rounding
Customer G	0		75	58	
Customer H	0		875	676	*gave 675 rounding
Customer I	0		50	39	
	0		0	0	
	0		0	0	
	0		0	0	
	0		0	0	
	0		0	0	
	0		0	0	
	0		0	0	
Total LTF, STF and DSTFNR			2200	1702	77.36% HIGH allocation received

3. List all non-firm transmission contracts between BPA and generators east of the West of Hatwai cutplane taking transmission service affecting the cutplane for the hours from 1200 through 1800 on May 22, 2001. Indicate which contracts were curtailed during this period.

BPA Response:

Acct #	Schedule
621771	MPC>CHN [SNO,]1,
823736	MPC>GRT [SUB,]1, *
734611	BDY>IDA [SCL,} 1,
640523	AVA>J-PG [AVA,]1, *
640527	MPC>J-PG [SNO, }1,
840709	MPC>PGE [SUB,]1, *
	MPC>PS [PS,]1
652753	AVA>SCL [SCL,]1 *
852757	MPC>SCL [SUB,]1 *

*These nonfirm schedules were curtailed during HE 1200 through HE 1800. While not all nonfirm schedules were curtailed during HE 1200 - HE 1800, the nonfirm schedules that were not curtailed went to zero before the need for curtailment arose.

13. Provide generator shift factor or comparable sensitivity ratios applicable to the West of Hatwai cutplane.

BPA Response: The attached, Table 1 – Sensitivities of West of Hatwai to local Power Sources, is attached and contains the information requested.

Table 1 Sensitivities of West of Hatwai to local Power Sources

Power Source Facility	Maximum Output (MW)	WOH Sensitivity (1 MW at gen)
Noxon Rapids	564	0.6
Cabinet Gorge	230	0.6
Libby	635	0.6
Hungry Horse	430	0.6
Dworshak	482	0.8
Boundary	1088	0.6
Lancaster	270	0.7
Rathdrum	210 winter/ 170 summer	0.7
Colstrip	2200	0.5
MPC-NW	2200	0.65
MCDC	200	0.5

15. Provide the basis for the sharp decline in West of Hatwai cutplane estimated capability (ROD account 46960) at approximately 1300 hours on May 22, 2001.

BPA Response: The reason for the sharp decline in capacity at about 1300 hours on May 22 has to do with the way the dynamic thermal line loading monitor (DTLLM) function was being used at that time to monitor the West of Hatwai path. It monitored the ambient temperature and the loading of the critical line that causes the West of Hatwai limit. It also calculated, based on prior off-line study factors, the expected flow on the critical line for the worst contingency that could occur and gave a limit based on all these factors that allowed no less than 20 minutes for the critical line to reach its maximum allowable sag. This meant that the capability of the path was highly related to the temperature in the area as well as the area line loading conditions at the time. The temperatures were climbing to about 90 degrees F. during this day. Given the conditions at the time and the variables it was monitoring, this is what the DTLLM calculated as a limit. The reason the capacity rapidly diminished is the temperature increased by five degrees from 12:00 hours to 13:00 hours. A temperature variance of 5 degrees F. affects the sag time by 11 minutes for a conductor stepping from 700 to 1200 amps. The capacity reduced by 300 MW during the same sixty minutes. In the next hour the temperature increased 3.5 degrees F. and the capacity again decreased 300 MW. In schedule hour HE14 Noxon generation was unavailable for generator dropping which would have allowed capacity to increase.

The Capability formula used the actual West of Hatwai Measured Flow multiplied by a factor based upon a flow ratio with a transmission reliability margin added to the result. (The flow ratio is equal to the net of the critical line real-time thermal capacity less the calculated post-contingency flow all divided by a percentage of the 500 kV Hatwai-Dworshak line flow).

16. Provide ROD account numbers for all tie points and cutplanes that affect managed flows on the West of Hatwai. For each account describe:

    a. How the values are measured or calculated

    b. Any customers that are billed according to the values measured or calculated

    c. Whether the ROD account is associated with tie-line schedule values associated with system control.

    BPA Response: We are providing the following information based on a phone conversation between Kurt Conger and Sally Long on Tuesday, July 10.

    In order to assist Seattle in deciphering the 600,000 through 800,000 series of RODS accounts, four documents are attached: (1) Scheduling Account Identification Process, (2) BPA Account Title Structure, (3) BPAT Product Codes, and (4) TBL Scheduling Entities. These documents can be found on BPA's website at http://www.transmission.bpa.gov/OASIS/BPAT/Scheduling/topics_index.htm. These RODS accounts are specific transmission schedules.

    Also attached are the transmission schedules for May 22, 2001, for all transactions over West of Hatwai. This information can be found on BPA's website at http://www.transmission.bpa.gov/orgs/opi/misc/index.shtm. The quantities included in the transmission schedules reflect the actual schedules, adjusted for any after-the-fact corrections, as of the date the schedules are posted. The transmission schedules are posted weekly.

    Customers are billed for transmission services according to the terms of their specific transmission agreement. Customers with IR (Integration of Resources), FPT (Formula Power Transmission), and PTP (Pont-to-Point) transmission agreements are billed based on the transmission demand included in the transmission agreement. Customers with NT (Network Integration) transmission agreements are billed based on their use on the hour of BPA TBL's monthly transmission system peak.

    Kurt, in response to his conversation with Sally Long on July 10, sent an e-mail requesting information about several specific accounts. The response to that e-mail regarding those accounts follows:

    The West of Hatwai Cutplane Actual Flow Acct 42064 represents that actual powerflow measured over the WOH path. It is the sum of the power actually moving on the individual transmission facilities that make up the path.

    The West of Hatwai Estimated Capability Acct 46960 is a computed OTC value for the path based upon actual loading conditions and ambient temperatures. This was

used under our older procedures, but became obsolete a few weeks ago when we went to the new nomograms with the Benewah-Moscow line sectionalized.

The WOH Total Calculated Schedule Acct 42065 represents the total of all schedules over the path. This includes schedules over both ours and Avista's share of the path. This value was computed by looking at the actual powerflows over both WOH and West of Garrison, then adjusting for loopflow at Garrison to derive the effective net schedule.

The WOH WWP Schedule Acct 36975 is the amount of Avista's net schedules across their share of WOH. Avista sends this to us electronically every hour.

The WOH BPA Schedule represents the net schedule on BPAT's share of the WOH path. This is a computed value derived by subtracting Acct 36975 (the WWP Schedule) from Acct 42065 (the Total Calculated Schedule). We used this quantity to determine if our net schedules were within our share of the WOH OTC. We stopped using this at the beginning of June. We have developed a new tool for this purpose.

The Montana-PNW Flow (300011) is the actual powerflow over the West of Garrison (i.e. Montana-PNW) path.

The Boundary, Noxon, and Cabinet Gorge accounts 352776, 300021, 346507, and 300022 all appear to be records of the actual generation at the plants.

The Garrison 500kV (336206) is the actual powerflow between BPA and Montana Power Company at the Garrison 500kV interchange point.

Scheduling Account Identification Process

BPA's Transmission Business Line requires the following information to be identified when a Transmission Customer submits transmission schedules for approved transmission service:

1. Source
2. Sink
3. Transmission Contract Holder Name
4. Network Transmission Contract Type (PTP, NTP, NT, IR, FPT, or Intertie Owner)
5. Network Transmission Product (Firm or Nonfirm) and Subproduct (Hourly, Daily, Weekly, Monthly, or Annual
6. Southern Intertie Contract Type (PTP, Southern Intertie Owner, or Non-Federal Participant)
7. Southern Intertie Transmission Product (Firm or Nonfirm) and Subproduct (Hourly, Daily, Weekly, Monthly, or Annual)
8. Southern Intertie Transmission Line (AC, 3rd AC, or DC)

As of June 10, 1998, the reporting of this information by the Transmission Customer to BPA's Transmission Preschedule and Real-Time functions is required. If this information is not provided at the time the transmission schedule is submitted, BPA will not accept the schedule. This is the same information required for the NERC Tagging process and is required by BPA for reliability purposes.

BPAT will provide all Transmission Customers with a complete list of current transmission scheduling account numbers, account titles, and product codes to assist in account identification. Please contact Shirley Buckmier at 360-418-2583 if an updated list is needed.

Questions and/or comments regarding this posting may be submitted by fax to the Reservation Desk at 360-418-8207 or, by dialing into our monthly **Customer Conference Call**. Questions, comments and responses will be posted on the **Question and Answer** page on BPAT's OASIS.

BPA Account Title Structure

Account #	Note #1 **Source** XXXX	Note #2 **Pointer** >	Note #1 **Sink** XXXX	[	Netwk **TCH1** XXX	,	Intertie **TCH2** XXX	]	Netwk **Product** XX	,	Intertie **Product** XX	Note #3 & #4 **Special Des.** R, I, B, S, T	Notes: #5 thru #21 **Special Designations** 3, A, I, D, R, W, G, S, M, T, L, X, Y, H, N, *, E, -, +, P, X
Title Spacing	4 Alpha	1	4 Alpha	1	3 Alpha	1	3 Alpha	1	2 Num	1	2 Num	1 Both	1 Both

Notes:

1. John Day Schedules are identified as a "J-" in the source/sink columns. To date, the only transactions using this designator have been schedules to PGE at John Day in the sink column and from PGE at John Day in the source column.
2. The "<" or ">" sign shown in column two identifies the owner of the transmission schedule.
3. Column 24 will be populated with an "R" when the schedule is utilizing the Reno Alturas Transmission System (RATS) unless the schedule is with a SW entity. In that case, Column 24 will be populated with an "I".
4. Column 24 will be populated with an "B" when interruptible power is being imported into the BPA Control Area and the TCH is purchasing CAR for IP from TBL, it will be populated with an "S" when the reserves are being self-supplied by the TCH, or/and a "T" when the reserves are being Third Party Supplied. The B, S, and T designations are used in combination with a "P" in column 24 (see footnote #21).
5. NW ATF Accounts will show an "*" in the last column of the account title (except 542905 and 634574). NW ATF Accounts are memo accounts, however, the "*" will be used when an account is both ATF and memo.
6. Dynamic Schedules will show an "R" in the last column of the account title.
7. Account Titles for wheeling thru an intermedite Control Area will show an "W" in the last column of the account title (i.e. MPC-IDA).
8. Remote Generation accounts (i.e. Colstrip) will show a "G" in the last column of the account title.
9. Station Service Accounts will show an "S" in the last column of the account title.
10. Memorandum Accounts will show an "M" in the last column of the account title.
11. Transfer Customer Accounts will show a "T" in the last column of the account title.
12. Loss Accounts will show an "L" in the last column of the account title.
13. 3 = 3rd AC, D=DC, A=AC (when in the 600,000, 700,000 and 800,000 RODS account range)
14. Power Sales/Purhases out of Operating Reserves: X = Delivering Party Carries Reserves, Y = Receiving Party Carries Reserves
15. H = Malin/Hilltop Transmission Segment
16. N = NWPP Operating Reserves
17. "E" = Estimate
18. "A" = Actual (when in the 400,000 RODS account range)
19. "+" = maximum
20. "-" = minimum
21. "P" = Interruptible Power Import
22. "X" = Interruptible Power Export

rdtit1 (3/19/01)

BPAT Product Codes				
BPAT				
FIRM				
PRODUCT				
CODES	TYPE	FIRM TRANSMISSION SEGMENT	PRODUCT	RATE SCHEDULE
12	PTP	Network Firm	Daily Reserved	PTP-96/II/A/3
13	PTP	Network Firm	Weekly Reserved	PTP-96/II/A/2
14	PTP	Network Firm	Monthly Reserved	PTP-96/IIA/1
15	PTP	S. Intertie Firm	Daily Reserved	IS-96/II/A/1/c
16	PTP	S. Intertie Firm	Weekly Reserved	IS-96/II/A/1/b
17	PTP	S. Intertie Firm	Monthly Reserved	IS-96/II/A/1/a
18	PTP	Network Firm	Daily Nonreserved	PTP-96/II/A/3
19	PTP	S. Intertie Firm	Daily Nonreserved	IS-96/II/A/1/c
29	PTP	Network Firm	No Charge - Load pays	N/A
32	IR	Network Firm - PGE OSP	Long Term	IR-96/II/A/1
38	PTP	Grandfathered Network Firm	No Charge - Load pays	N/A
40	SP	N. Intertie - Network Firm	No Charge	N/A
42	SP	Network Firm	No Charge	N/A
44	SP	Delivery Firm	Annual	UFT-96/III/A
45	SP	Network Firm	GTA - To Control Area	N/A
46	SP	Network Firm	GTA - From Control Area	N/A
50	PTP	S. Intertie Firm	No Charge - NWPP Op Reserves	N/A
51	PTP	Network Firm	No Charge - BPA/CAISO Counter-Schedule	N/A
52	PTP	S. Intertie Firm	No Charge - BPA/CAISO Counter-Schedule	N/A
68	PTP	Network Firm	Daily Nonreserved (Demand)	N/A
69	PTP	Intertie Firm	Daily Nonreserved (Demand)	N/A
70	PTP	Network Firm - PF (no Tx Loss)	Long Term	PTP-96/II/A/1
71	PTP	Network Firm - PF (no Tx Loss)	Monthly Reserved	PTP-96/II/A/1
72	PTP	Network Firm - PF (no Tx Loss)	Weekly Reserved	PTP-96/II/A/2
73	PTP	Network Firm - PF (no Tx Loss)	Daily Reserved	PTP-96/II/A/3
74	PTP	Network Firm - PF (no Tx Loss)	Daily Nonreserved	PTP-96-II/A/3
75	NT	Network Firm	Long Term	NT-96/II/A
76	NTP	Network Firm	Long Term	NTP-96/II/A
77	PTP	Network Firm	Long Term	PTP-96-II/A/1
78	PTP	S. Intertie Firm	Long Term	IS-96/II/A/1/a
79	NT	Network Firm - PF (no Tx Loss)	Long Term	NT-96/II/A
81	PTP	E. Intertie Firm	Long Term	IM-96/II/A/1/a
82	PTP	Grandfathered Network Firm	Long Term	PTP-96/II/A/1
83	PTP	Grandfathered S. Intertie Firm	Long Term	IS-96/II/A/1/a
84	SP	S. Intertie Firm	Long Term	**
85	SP	N. Intertie - Network Firm	Long Term	**
86	SP	Network Firm	Long Term	**
87	SP	Townsend-Garrison Firm	Long Term	TGT-96/II/B
88	IR	Network Firm	Long Term	IR-96/II/A/1
89	FPT	Network Firm	Long Term	FPT-96.1/II
90	FPT	Network Firm	Long Term	FPT-96.3/II
C1	SP	Network Firm	CSPE Agreement - CSPE	N/A
C2	SP	Network Firm	CSPE Agreement - CEA	N/A
C3	SP	Network Firm	CSPE Agreement - Entitlmt	N/A
C4	SP	Network Firm	CSPE Agreement - Sup. Cap.	N/A
R	SP	Obligation - Network NWPP	NWPP Operating Reserves	N/A
1D	SP (PTP)	Spinning Demand - Network/Intertie - Firm	Reserve Services	
2D	SP (PTP)	Non-Spinning Demand - Net/Int - Firm	Reserve Services	
3D	SP (PTP)	Supplemental AGC Net/Int - Firm	Supplemental Services	
4D	SP (PTP)	Interruptible Power Import	Reserve Services	
1U	SP (PTP)	Spinning Use - Network/Intertie - Firm	Reserve Services	
2U	SP (PTP)	Non-Spinning Use - Network/Intertie - Firm	Reserve Services	
3U	SP (PTP)	Supplemental AGC Net/Int - Firm		
4U	SP (PTP)	Interruptible Power Import	Reserve Services	

BPAT				
NONFIRM				
PRODUCT				
CODES	TYPE	NONFIRM TRANSMISSION SEGMENT	PRODUCT	RATE SCHEDULE
1	SP	Network NF	Hourly NF	**
2	SP	S. Intertie NF	Hourly NF	**
3	PTP	Network NF	Hourly NF ATF	ET-96/II
4	PTP	S. Intertie NF	Hourly NF ATF	IS-96/II/C
6	NT	Network NF	Hourly Nonfirm	NT-96/II/A
7	SP	N. Intertie - Network NF	Hourly Nonfirm	**
8	PTP	Grandfathered Network NF	HNF Operating Agreemnt	ET-96/II
9	PTP	Grandfathered S. Intertie NF	Hourly Nonfirm	IS-96/II/C
10	PTP	E. Intertie NF	Hourly Nonfirm	IM-96/II/C
11	NTP	Network NF	Hourly Nonfirm	NTP-96/II/A
20	PTP	Network NF	Daily Reserved	RNF-96/II/C
21	PTP	Network NF	Weekly Reserved	RNF-96/II/B
22	PTP	Network NF	Monthly Reserved	RNF-96/II/A
23	PTP	S. Intertie NF	Daily Reserved	IS-96/II/B/3
24	PTP	S. Intertie NF	Weekly Reserved	IS-96/II/B/2
25	PTP	S. Intertie NF	Monthly Reserved	IS-96/II/B/1
28	IR	Network NF	Hourly Nonfirm ATF	IR-96/II/A/1
37	PTP	Network NF	No Charge - Load pays	N/A
39	PTP	Grandfathered Network NF	No Charge - Load pays	N/A
41	SP	N. Intertie - Network NF	No Charge	N/A
43	SP	Network NF	No Charge	N/A
96	PTP	Network NF	No Charge - Immed. Spill	RNF-96/II/C
C5	SP	Network NF	CSPE Agreemt - Sup. Cap. Repl.	N/A
P1	SP	Network NF	PNCA Storage Wheel	PNCA 14(f)
P2	SP	Network NF	PNCA Storage Wheel Ret.	PNCA 14(f)
P3	SP	Network NF	PNCA Inlieu Wheel	PNCA 14(f)
P4	SP	Network NF	PNCA Inlieu Wheel Ret.	PNCA 14(f)
P5	SP	Network NF	PNCA Interchg Wheel	PNCA 14(f)
P6	SP	Network NF	PNCA Interchg Wheel Ret.	PNCA 14(f)
P7	SP	Network NF	PNCA Prov. Wheel	PNCA 14(f)
P8	SP	Network NF	PNCA Prov. Wheel Ret.	PNCA 14(f)
BPAT				
OTHER				
PRODUCT				
CODES	TYPE	OTHER TRANSMISSION SEGMENT	PRODUCT	RATE SCHEDULE
00	SP	No BPAT Control Area Transmission used	N/A	
99	Owners/NFPs	SI, NI, and EI Shares	Non-BPA Transmission	N/A
L1	IR	IR Network Losses	RTRN	ET-96/II*
L2	FPT	FPT Network Losses	RTRN	ET-96/II*
L3	NT	NT Network Losses	RTRN	N/A
L4	NTP	NTP Network Losses	RTRN	N/A
L5	ET	ET Network Losses	RTRN	ET-96/II*
L6	WSPP	Power Pool Market L-MT	RTRN	ET-96/II* &/or IS-96/II/C
L7	SP	S. Intertie Losses (Owners & NFPs)	RTRN	
L8	PTP	Network & S. Intertie Firm Losses	RTRN	ET-96/II* & IS-96/II/C
L9	LSNI	Network & N. Intertie Firm Losses	RTRN	N/A
LG	LGF	PBL Grandfathered Loss	FR PBL	ET-96/II* &/or IS-96/II
LP	PTP	PTP Network Losses	RTRN	ET-96/II*
LR	SP	Return of overdelivered losses	FR PBL - NO CHG	N/A
		* May or may not apply; depends upon		
		customer's return point		
		** New business is PTP, NT, or MT and		
		old business is by contract.		

TBL SCHEDULING ENTITIES			
Company No	Acronym	Company Name	2-Digit Acronym
*1	PBL	BPA - Power Business Line	PB
2	NWP	NORTHWEST POWER POOL	
*3	TBL	BPA - Transmission Business Line	TB
4	WSC	**WSCC - NOT USED**	
*5	PBL	BPA - Power Business Line #2	PB
6	ELF	Elf-Atochem	EA
7	KAC	KAISER ALUM CO **(AVA's Control Area)**	KA
*8	INT	INTALCO	IN
*9	RAC	REYNOLDS ALUM. CO.	RA
10	CFA	COL. FALLS ALUM CO **(PAC's Control Area)**	CF
*11	VAC	VANALCO ALUM. CO.	VA
*12	GAC	GOLDENDALE ALUM. CO.	GA
*13	AAC	ALCOA ALUM. CO.	AA
14	NAC	NORTHWEST ALUM. CO. **(AVA's Control Area)**	NA
15		**SMALL GENERATORS IN OUR CONTROL AREA**	
*151	LAN	LANCASTER	
*152	WH1	GRAYS HARBOR - WEYERHAEUSER 1	
*153	GHP	GRAYS HARBOR PAPER GENERATION	
*154	KFG	KLAMATH FALLS GENERATION	
*155	FTE	FRONTIER ENERGY	
*156	ORH	ORCHARDS #1	
*157	NR2	NW REGIONAL POWER #2	
*158	CYP	CYPRESS (Cowlitz)	
*159	RRR	RIVER ROAD RECIPROCAL	
16		**SMALL GENERATORS #2**	
*161	SGF	SUB GEN FARM	
*162	GGR	GRAVES - GILMER	
*163	GGW	GRAVES - GLENWOOD	
20	DGL	DOUGLAS CO PUD	DG
21	CHN	CHELAN CO PUD	CH
22		**SMALL PUD'S #1**	
220	NWH	NW Marketing HUB (this company number for special accounts only)	
*221	BCP	BENTON CO PUD	BP
*222	CCP	CLALLAM CO PUD	CC
*223	FCP	FRANKLIN CO PUD	FC
*224	KIT	KITTITAS CO PUD	KT
*225	KCP	KLICKITAT CO PUD	KC
*226	MC1	Mason Co PUD #1	M1
*227	NWC	NO. WASCO PUD	NW
*228	PCP	PACIFIC CO PUD	PC
*229	MC3	MASON CO PUD #3	M3
23	GRT	GRANT CO PUD	GR
24		**SMALL PUD'S #2**	
*241	CLK	CLATSKANIE PUD	CL
*242	EMP	EMERALD PUD	EM
*243	LCP	LEWIS CO PUD	LC
244	CRP	COLUMBIA RIVER PEOPLE'S	CR
245	WCP	WHATCOM CO. PUD	WC
246			
247			
248			
249			
25	PO	PEND OREILLE **(AVA's Control Area)**	PO
*26	GH	GRAYS HARBOR	GH
*27	TLP	TILLAMOOK PUD	TL

TBL SCHEDULING ENTITIES			
Company No.	Acronym	Company Name	2-Dlgit Acronym
*28	CWZ	COWLITZ PUD	CW
29	BC	BC HYDRO (Powerex)	BC
30	BC	BC HYDRO (Powerex)	BC
31	WK	WEST KOOTENAY	WK
*32	EWB	EUGENE WATER & ELECTRIC BOARD	EW
33	ICP	**NOT USED - ICP NO LONGER EXISTS**	
34	IDA	IDAHO POWER CO	ID
35		**SMALL CITIES**	
*351	FSG	FOREST GROVE	FG
*352	MCM	MCMINNVILLE	MC
*353	RCH	RICHLAND	RC
*354	CHY	CHENEY	CY
*355	PTA	PORT ANGELES	PT
*356	ELN	ELLENSBURG	EL
357			
358			
359			
36	MPC	MONTANA POWER CO	MP
37	OKP	OKANOGAN **(DGL's Control Area)**	OK
38	PGE	PORTLAND GENERAL **(NOT USED)**	
39	CPU	CLARK PUD **(PAC's Control Area)**	CU
40	PGE	PORTLAND GENERAL	PG
41		**SMALL CO-OPS**	
*411	LEC	LINCOLN ELECTRIC COOP	LE
*412	MVC	MISSION VALLEY COOP	MV
*413	VEC	VIGILANTE ELECTRIC COOP	VE
*414	MSE	MISSOULA ELECTRIC COOP	MS
*415	FLT	FLATHEAD ELECTRIC COOP	FL
*416	KTE	KOOTENAI ELECTRIC COOP	KT
*417	CME	CENTRAL MONTANA ELECTRIC (only use Co. # if source is WUGP)	
*418	BGH	BIG HORN ELECTRIC	
419			
42	PAC	PACIFIC CORP (WEST)	PA
43		**MISCELLANEOUS UTILITIES**	
*431	VRA	VERA WATER & PWR	VR
*432	ILP	IDAHO LIGHT & PWR	IL
*433	BRE	BENTON RURAL ELECTRIC ASSOC	BR
*434	CPC	CLEARWATER POWER CO	CP
*435	IPL	INLAND POWER & LIGHT	IP
*436	PEN	PENINSULA LIGHT	PL
437			
438			
439			
44	PS	PUGET SOUND ENERGY, INC.	PS
*45	IFL	IDAHO FALLS, CITY OF	IF
46	AVA	AVISTA CORP.	AV
47	EPA	EDMONTON POWER AUTHORITY	EP
48			
49			
50	TNC	TRANS AGENCY OF NO CALIF	TN
*51	SUB	SPRINGFIELD UTILITY BOARD	SU
52	SCL	SEATTLE CITY LIGHT	SL
53	SPP	SIERRA PACIFIC POWER	SP
54	TCL	TACOMA CITY LIGHT	TC
55	CNT	CENTRALIA (TRANSALTA ENERGY MKTG)	CN

TBL SCHEDULING ENTITIES			
Company No	Acronym	Company Name	2-Digit Acronym
56	PCE	PACIFIC CORP (EAST)	PE
57			
*571	PNG	PACIFIC NW GENERATING COOP.	PN
*572	PRC	POWER RESOURCES COOP.	PR
*58	SNO	SNOHOMISH PUD	SN
59		USED FOR TOTALS - NOT AVAILABLE	
	* INDICATES THAT THIS COMPANY IS IN THE BPA CONTROL AREA		
		SOUTHWEST COMPANIES	
60	BUR	BURBANK	BU
61	MWD	METROPOLITAN WATER DISTRICT	N/A
62	PAS	PASADENA	PD
63	WUM	WAPA - UPPER MISSOURI	N/A
64	GLN	GLENDALE	GL
65	CBH	COB HUB	CB
66	APS	ARIZONA PUBIC SERVICE	N/A
67			
68	LA	LOS ANGELES DWP	LA
69	LA	LOS ANGELES DWP	LA
70	WUC	WAPA - UPPER COLORADO (MONTROSE)	N/A
71	WLC	WAPA - LOWER COLORADO (PHOENIX)	N/A
72	SMD	SACRAMENTO UTILITY DISTRICT	SM
73	NCP	NORTHERN CALIFORNIA	NC
74	SNC	SANTA CLARA	SC
75	CSL	CITY OF SHASTA LAKE	SH
76	CVP	WAPA-S.NEV REGION (USBR-CVP)	CV
77	RED	CITY OF REDDING	RD
78			
79			
80			
81	ISO	CALIFORNIA ISO	CI
82	ISO	CALIFORNIA ISO	CI
83	ISO	CALIFORNIA ISO	CI
84			
85	APX	AUTOMATED POWER EXCHANGE	AX
86	WPA	WYOMING MUNICIPAL PWR AGENCY	N/A
87	WMP	WAPA - MID PACIFIC (SACRAMENTO)	N/A
88	CDW	CALIFORNIA DEPT OF WATER & PWR	CD
89	VRN	CITY OF VERNON	VN
90	TID	TURLOCK IRRIGATION DISTRICT	TD
91	MID	CITY OF MODESTO	MD
92			
93	ANH	CITY OF ANAHEIM	AN
94	RVS	CITY OF RIVERSIDE	RV
95			
96			
		MARKETERS THAT ARE TRANSMISSION CONTRACT HOLDERS	
999	AET	ALLEGHENY ENERGY SUPPLY CO.	
999	AEP	AMERICAN ELECTRIC POWER	
999	APC	AQUILA ENERGY MARKETING CORP (aka: AQUILA POWER)	AP
999	AVT	AVISTA ENERGY, INC	
999	CGA	CARGILL-ALLIANT, L.L.C.	

TBL SCHEDULING ENTITIES			
Company No	Acronym	Company Name	2-Digit Acronym
999	CME	CENTRAL MONTANA ELECTRIC (#36)	
999	CSI	CINERGY SERVICES, INC.	
999	CIT	CITIZENS POWER SALES	
999	CAE	CONAGRA ENERGY SERVICES	
999	CON	CONOCO GAS & POWER MARKETING	
999	CPS	CONSTELLATION POWER SOURCE, INC.	
999	CIE	COOK INLET ENERGY SUPPLY	
999	CPL	CORAL POWER L.L.C	
999	DPS	DESTEC POWER SERVICES (#81)	DP
999	DET	DUKE ENERGY TRADING & MARKETING (#81)	
999	EPS	EL PASO MERCHANT ENERGY	
999	ECI	ELECTRIC CLEARINGHOUSE **(aka: DYNEGY, INC.)**	
999	ENI	ENERGY NORTHWEST, INC.	
999	ENE	ENGAGE ENERGY **(aka: WESTCOAST GAS SERVICES DELAWARE)**	
999	EPM	ENRON POWER MARKETING INC	
999	ENT	ENTERGY POWER MARKETING, CORP.	
999	FPL	FPL ENERGY POWER MARKETING, INC.	
999	CAL	CALPINE CORP.	
999	HHW	HETCH HETCHY WATER POWER	HH
999	HPC	HINSON POWER COMPANY	
999	CKF	KLAMATH FALLS, CITY OF	
999	MCE	MACLAREN ENERGY INC.	
999	MAE	MIRANT AMERICAS ENERGY **(aka: SOUTHERN ENERGY MARKETING)**	
999	MEC	MIECO INC.	
999	MER	MERRILL LYNCH	
999	MGA	MERCHANT ENERGY GP OF AMERICAS, INC.	
999	MPM	MONTANA POWER TRADING & MARKETING	
999	MSC	MORGAN STANLEY CAPITAL GROUP, INC.	
999	NES	NATIONAL ENERGY SYSTEMS CO.	
999	NEV	NEW ENERGY VENTURES, LL.C	
999	NPE	NP ENERGY INC	
999	PPM	PACIFICORP POWER MARKETING, INC.	
999	PGT	PG&E ENERGY TRADING-POWER L.P.	
999	PLM	PP&L MONTANA, LLC	
999	PFI	POWER FUELS INC	
999	PPA	POWER POOL OF ALBERTA (#30)	
999	PSC	PUBLIC SERVICE OF COLORADO	
999	PNM	PUBLIC SERVICE OF NEW MEXICO	
999	RES	RELIANT ENERGY SERVICES	
999	SDG	SAN DIEGO GAS & ELECTRIC CO.	
999	STA	SEATTLE-TACOMA AIRPORT (PORT OF SEATTLE)	
999	SET	SEMPRA ENERGY TRADING CORP.	
999	SPE	SIERRA PACIFIC ENERGY CO.	
999	STI	STATOIL ENERGY TRADING, INC.	
999	TBM	TRACTEBEL ENERGY MARKETING	
999	TEM	TRANSALTA ENERGY MARKETING CORP	CN
999	TCP	TRANSCANADA POWER	
999	TID	TURLOCK IRRIGATION DISTRICT	
999	TXU	TXU ENERGY TRADING CO.	
999	VGE	VITOL GAS & ELECTRIC, L.L.C.	
999	WRE	WELLS RURAL ELECTRIC	
999	WES	WILLIAMS ENERGY SERVICE CO.	
Source: Leticia Chavira; date: 6/25/01			

Seattle City Light Data Requests
West-of-Hatwai Curtailment 05/22/01
7/11/01

#16: Additional Information

(" . " signifies missing or unavailable data)

Date	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01
Hour Ending	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
601114 PBL <CME [CME,]79, W MWH	-16	-16	-16	-17	-18	-22	-25	-23	-22	-21	-20	-20	-20	-20	-20	-21	-22	-23	-24	-25	-25	-22	-17	-15
601141 PBL <CFA [CFA,]77, MWH	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
601174 PBL <PO [PBL,]76, MWH	-25	-25	-25	-25	-25	-27	-12	-14	-16	-14	-13	-11	-10	-10	-10	-10	-10	-11	-13	-11	-11	-9	-25	-24
605236 PBL <PO [PO,]C1, MWH	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0
605505 PBL <MPC [PBL,]45, T MWH	-65	-68	-68	-71	-71	-71	-65	-64	-65	-77	-77	-77	-77	-62	-62	-62	-62	-62	-71	-71	-68	-66	-65	-65
605509 PBL <AVA [PBL,]45, T MWH	-125	-121	-121	-124	-131	-149	-173	-175	-176	-162	-154	-147	-143	-141	-141	-142	-146	-158	-171	-177	-172	-158	-142	-131
630562 BDEC<SCL [BC,]77, G MWH	-2	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-2	0	-2	-3	-3	-4	-5	-6	-8	-4	-3
630563 HRSS<SCL [BC,]77, G MWH	0	0	0	0	0	0	0	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	0	0
630669 BC <AVA [BC,] 1, MWH	-10	-10	-10	-11	-10	-10	-10	-11	-10	-10	-10	-10	-11	-10	-10	-10	-10	-10	-11	-10	-10	-10	-11	-10
631358 WK <ISO [SNO,APC] 1, 2 MWH	-50	-50	-50	-50	-50	-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636527 MPC <J-PG[SNO,] 1, MWH	-25	0	-30	-20	-15	-15	-25	-25	-30	-20	-20	-20	-10	0	0	0	0	0	-15	0	0	0	0	0
636560 C-MP<PAC [PAC,]89, M MWH	-70	-69	-70	-70	-68	-69	-69	-70	-68	-68	-69	-67	-70	-70	-14	-17	-13	-16	-17	-15	-15	-41	-51	-51
636561 C-MP<PGE [PGE,]88, M MWH	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	-270	-269	-270	-240	-129	-123	-84	-98	-119	-129	-146	-184	-185
636562 C-MP<AVA [AVA,]77, M MWH	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
636563 C-MP<PS [PS,]88, M MWH	-415	-414	-417	-418	-416	-393	-420	-415	-417	-415	-416	-414	-411	-404	-401	-390	-198	-245	-281	-287	-264	-286	-415	-411
636580 CLS4<PS [PS,]88, G MWH	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-94	-39	0	0	0	0	-94	-94	-94	-94
636691 MPC <PS [PLM,] 1, MWH	-3	-3	-3	-3	-3	-2	-3	-3	-2	0	0	-2	-4	-3	-3	0	0	0	0	0	0	0	-1	-2
636714 MPC <SCL [SCL,] 1, MWH	0	-30	0	-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636754 MPC <BC [BC,] 1, MWH	0	0	-95	-10	-75	0	-48	-33	-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
636771 MPC <CHN [SNO,] 1, MWH	0	0	0	0	0	0	0	0	0	0	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0
636775 MPC <EWB [EWB,] 1, MWH	0	0	0	0	0	0	-48	-53	-29	0	-29	-29	-29	-29	0	0	0	0	0	0	0	0	0	0
636799 C-MP<PGE [PGE,] 1, M MWH	-3	-2	-4	-3	-1	-2	-3	-1	-1	-1	-1	0	0	-1	0	0	0	0	0	0	0	0	0	0
642960 PAC <CLST[PAC,]L2, MWH	0	0	0	0	0	-1	0	-1	0	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-2	-1	-1	-1	0
646120 AVA <NAC [NAC,]77, M MWH	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
646131 PO <SCL [SCL,]77, MWH	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
646142 SCL >PO [PO,]89, MWH	18	18	18	19	19	19	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	19	19
646149 C-AV<SNO [AVA,]77, G MWH	-72	-72	-72	-72	-72	-72	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-72	-72
646158 AVA <K-TA[KAC,]77, M MWH	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
646234 AVA <CPU [CPU,]75, MWH	0	0	0	0	0	-57	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-57	0
646238 C-AV<CPU [AVA,]77, G MWH	0	0	0	0	0	0	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	-57	0	0
646509 PBL >AVA [PBL,]45, T MWH	125	121	121	124	131	149	173	175	176	162	154	147	143	141	141	142	146	158	171	177	172	158	142	131
646523 AVA <J-PG[AVA,] 1, MWH	-65	-65	-65	-65	-65	-65	0	0	0	0	0	0	0	-50	-30	0	-15	0	-20	-15	-15	-15	-65	-65
646537 MSW <PS [PS,] 1, * MWH	-17	-17	-17	-18	-20	-20	-20	-20	-19	-19	-19	-18	-18	-18	-18	-17	-18	-17	-17	-18	-17	-15	-17	-16
646551 AVA <PGE [AVA,] 1, MWH	-1	-1	-1	-1	-2	-2	-0	0	0	0	0	0	0	0	-2	-2	0	-1	-0	0	0	0	0	0
646584 C-AV<J-PG[AVA,] 1, G MWH	-10	-10	-20	-30	-45	-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-10	-10
646606 CNT >AVA [TEM,] 1, G MWH	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
646658 PO <PBL [PBL,]43, MWH	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
646669 BC >AVA [BC,] 1, MWH	10	10	10	11	10	10	10	11	10	10	10	10	11	10	10	10	10	10	11	10	10	10	11	10
646685 C-AV<PGE [AVA,] 1, G MWH	-1	-1	-1	-1	-2	-2	0	0	0	0	0	0	0	0	-2	-2	0	-1	0	0	0	0	0	0
646692 AVA <BC [BC,] 1, MWH	-165	-166	-166	-166	-175	-175	-240	-215	-240	-240	-240	-240	-240	-240	-215	-240	-240	-240	-240	-217	-214	-242	-198	-200
646753 AVA <SCL [SCL,] 1, MWH	0	-25	-75	-75	-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652611 BDY <BC [BC,] 1, G MWH	0	0	0	0	0	0	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	0	0
652685 PPA >SCL [SCL,] 1, W MWH	36	36	36	36	64	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	0	0	0	0
652791 BDY <BC [SNO,] 1, G MWH	0	0	0	0	0	0	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	0	0
82457 MPC >ISO [WES,WES] 1, 2 A MWH	0	0	0	0	0	0	0	0	0	0	15	5	0	0	0	0	0	0	0	0	0	0	0	0

Date	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01	22-May-01
Hour Ending	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
701171 PBL <AVA [PBL,]82, MWH	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63
701732 PBL <AVA [PBL,] 1, MWH	0	0	0	0	0	0	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	0	0
701735 PBL <MPC [PBL,] 1, MWH	-1	0	0	-1	0	0	0	-1	0	0	-1	0	0	-1	0	0	-1	0	0	-1	0	0	-1	0
701797 PBL <AVA [KAC,] 1, MWH	0	0	0	0	0	0	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	0	0
705182 PBL <K-BE[KAC,]77, MWH	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
705186 PBL <K-TR[KAC,]77, MWH	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35	-35
705234 PBL <AVA [AVA,]C1, MWH	0	0	0	0	0	0	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	0	0
705236 PBL <AVA [AVA,]C4, MWH	0	0	0	0	0	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	0	0	0
735203 C-PS>MCM [MCM,] 6, MWH	10	10	10	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
736105 MPC <CHN [BC ,]77, MWH	-52	-53	-53	-53	-53	-53	-46	-46	-46	-46	-46	-46	-46	-46	-46	-46	-23	-18	-18	-18	-18	-18	-53	-53
736785 C-MP<AVA [AVA,] 1, M MWH	-107	-107	-97	-87	-72	-107	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-107	-107
744745 C-PS<BC [BC ,] 1, MWH	-100	-100	-100	-100	-100	-100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-100	-100
746017 AVA <SMD [GH ,APC] 1,17 MWH	-4	-4	-4	-4	-4	-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4	-4
746237 AVA <PBL [AVA,]C5, MWH	-2	-2	-2	-2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-2	-2
746365 IDA <ISO [IDA,IDA] 1, 2 W MWH	-120	-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
746500 AVA <ISO [SNO,APC] 1, 2 MWH	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
746791 AVA <SNO [KAC,] 1, MWH	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28
752611 BDY <IDA [SCL,] 1, G MWH	0	0	0	0	0	0	0	0	0	0	0	0	0	-25	-25	0	0	0	0	0	0	0	0	0
752704 BDY <SNO [SNO,] 1, G MWH	0	0	0	0	0	0	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	0	0
752719 SCL <AVA [TEM,] 1, MWH	-50	-50	-50	-50	-50	-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-50	-50
752743 BDY <PGE [SCL,] 1, G MWH	0	0	0	0	0	0	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	0	0
772117 AVA >SMD [GH ,APC] 1,17 A MWH	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
781453 MPC >ISO [EPM,EPM] 1, 2 A MWH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
781496 MPC >ISO [SET,SET] 1, 2 A MWH	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
781600 AVA >ISO [SNO,APC] 1, 2 A MWH	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
823736 MPC >GRT [SUB,] 1, MWH	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	0	0	25	25	25	25