Western Area Power Administration
Sierra Nevada Region

Date: November 1, 2004

12 Month Forecast of Generation
November 2004 through October 2005

Exceedence Level **90% (Dry)**

	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
Month	CVP Maximum Capability (MW)	CVP Energy Generation (GWh)	On-Peak Project Use Capacity (MW)	Project Use (PU) Load (GWh)	On-Peak First Preference Capacity (MW)	First Pref. (FP) Load (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Nov-04	710.0	225.6	163.0	137.8	27.0	13.0	100.4	16.8	0.0	0.0	0.0	0.0	0.0	406.7	87.5	29.9
Dec-04	688.0	142.5	141.0	136.8	29.6	14.2	99.6	16.4	0.0	0.0	0.0	0.0	0.0	405.4	5.3	1.8
Jan-05	526.0	141.3	163.0	153.4	30.9	14.7	95.6	17.2	0.0	12.2	17.2	0.0	0.0	226.9	0.0	0.0
Feb-05	811.0	132.8	133.0	122.8	27.6	11.8	102.7	14.4	0.0	0.0	0.0	0.0	0.0	533.0	10.2	2.8
Mar-05	900.0	166.8	117.0	78.5	25.9	12.9	104.8	15.6	0.0	0.0	0.0	0.0	0.0	636.0	88.0	18.6
Apr-05	1,132.0	284.9	69.0	34.1	24.2	11.3	110.3	0.0	0.0	0.0	0.0	4.7	0.0	897.4	229.6	35.5
May-05	1,376.0	481.6	79.0	34.5	22.5	12.5	116.7	0.0	0.0	0.0	0.0	4.7	0.0	1,122.2	421.2	50.4
Jun-05	1,363.0	540.2	128.0	47.6	30.0	12.7	117.0	0.0	0.0	0.0	0.0	4.7	0.0	1,052.7	465.4	61.4
Jul-05	1,547.0	671.4	215.0	107.2	33.6	14.8	122.8	0.0	0.0	0.0	0.0	4.5	0.0	1,137.4	532.7	63.0
Aug-05	1,398.0	568.8	212.0	122.4	31.4	14.0	118.9	0.0	0.0	0.0	0.0	4.5	0.0	1,000.2	417.6	56.1
Sep-05	1,130.0	338.6	163.0	107.9	27.6	12.6	111.3	0.0	0.0	0.0	0.0	0.0	0.0	807.6	212.0	36.5
Oct-05	1,143.0	186.0	115.8	67.2	24.2	12.3	111.1	16.4	0.0	0.0	0.0	0.0	0.0	871.2	119.5	18.4
Total		3,880.5		1,150.2		156.8		96.8		12.2	17.2	23.1			2,589.1	

Exceedence Level **50% (Average)**

	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
Month	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	On-Peak Project Use Capacity (MW)	Project Use (PU) Load (GWh)	On-Peak First Preference Capacity (MW)	First Pref. (FP) Load (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Nov-04	705.0	185.8	164.0	138.3	27.0	13.0	100.3	16.8	0.0	0.0	0.0	0.0	0.0	400.9	48.0	16.6
Dec-04	722.0	131.4	143.0	156.3	29.6	14.2	100.5	16.4	0.0	25.0	0.0	0.0	0.0	435.8	0.0	0.0
Jan-05	584.0	141.6	164.0	166.8	30.9	14.7	97.2	17.2	0.0	25.3	30.3	0.0	0.0	281.4	0.0	0.0
Feb-05	903.0	133.3	135.0	134.8	27.6	11.8	105.1	14.4	0.0	1.3	6.3	0.0	0.0	619.0	0.0	0.0
Mar-05	989.0	166.3	117.0	78.6	25.9	12.9	107.1	15.6	0.0	0.0	0.0	0.0	0.0	721.1	87.4	16.3
Apr-05	1,338.0	477.7	69.0	36.2	24.2	11.3	115.6	0.0	0.0	0.0	0.0	8.1	0.0	1,086.6	413.4	52.8
May-05	1,487.0	646.2	84.0	48.3	22.5	12.5	119.7	0.0	0.0	0.0	0.0	8.1	0.0	1,215.5	565.7	62.5
Jun-05	1,473.0	630.1	146.0	96.3	30.0	12.7	120.1	0.0	0.0	0.0	0.0	8.1	0.0	1,131.9	501.6	61.6
Jul-05	1,622.0	671.0	236.0	156.9	33.6	14.8	125.0	0.0	0.0	0.0	0.0	7.8	0.0	1,180.3	479.3	54.6
Aug-05	1,560.0	558.1	221.0	146.1	31.4	14.0	123.2	0.0	0.0	0.0	0.0	7.8	0.0	1,138.4	380.1	44.9
Sep-05	1,423.0	403.8	164.0	116.2	27.6	12.6	119.0	0.0	0.0	0.0	0.0	0.0	0.0	1,086.7	267.7	34.2
Oct-05	1,295.1	305.7	155.1	92.0	24.2	12.3	115.5	16.4	0.0	0.0	0.0	0.0	0.0	976.8	212.3	29.2
Total		4,451.0		1,366.8		156.8		96.8		51.7	36.6	39.9			2,955.4	

Exceedence Level **10% (Wet)** **10% EXCEEDENCE FORECAST NOT AVAILABLE THIS MONTH**

	CVP Generation		Project Use		First Preference		Reg & Res	Purchases and Exchanges						Base Resource		
Month	Maximum CVP Capacity (MW)	CVP Energy Generation (GWh)	On-Peak Project Use Capacity (MW)	Project Use (PU) Load (GWh)	On-Peak First Preference Capacity (MW)	First Pref. (FP) Load (GWh)	Estimated Ancillary Services Capacity (MW)	PU Forward Purchase Off-Peak Energy (GWh)	PU & FP Capacity Purchase Reqmts. (MW)	PU & FP Energy Purchase Reqmts. (GWh)	CVP Corp Energy for PU and FP (GWh)	Return Energy to CVP Corp (GWh)	Ancilliary Services Purchase Reqmt. (MW)	Project Capacity Available for BR (MW)	Energy Available for Base Resource (GWh)	Capacity Factor (%)
Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Nov-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jan-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mar-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Apr-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
May-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jul-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sep-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		0.0		0.0		0		0.0		0.0	0.0	0.0			0.0	

Notes:

1. For the AS capacity (Column G), it was assumed that the Single Largest Contingency (SLC) was SMUD's Cambells Soup plant or a transmission constraint on Western's system (80 MW), 44% of which is assigned to Weste
   40 MW of which is the spin requirment. The capacity reservation was calculated as 40 MW spin for the SLC plus 40 MW for regulation plus 5% of the Base Resource in the ISO area.
   It was assumed that 52% of the total Base Resource in any hour will reside in the ISO area.
2. It was assumed that an average of 1.81 % losses would be assessed on both capacity and energy between generation and load in Western's sub control area.
3. Please disregard numbers in November and December 2004; they are irrelevant to the forecast of Base Resource in 2005.
4. Reclamation's forecast of capacity at Spring Creek and New Melones power plants were adjusted in several months to reflect planned outages that would significantly limit availabilty of Base Resource capacity in those montl
5. CVP Corp transactions were added to reflect a target of $5 million in the CVP Corp account at the end of the fiscal year.