

Boulder Canyon Project  
Power Repayment Study  
Executive Summary

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	x	x	x	x	x	x					Columns(8+9+10)			Column(12)+ Column(13)	Sum of Columns (1) thru (7)+ Col.(11)+Col.(14)
Fiscal Year	OPERATIONS AND MAINTENANCE EXPENSE	PAYMENTS TO STATES	OTHER EXPENSES	ANNUAL UPRATER INTEREST PAYMENTS	ANNUAL UPRATER PRINCIPAL PAYMENTS	ANNUAL REPLACEMENT PAYMENTS	WORKING CAPITAL	DEBT SERVICE INTEREST EXPENSE	CAPITALIZED DEFICIT INTEREST EXPENSE	OTHER INTEREST EXPENSE	TOTAL INTEREST EXPENSE	DEBT SERVICE PRINCIPAL PAYMENT	CAPITALIZED DEFICIT PRINCIPAL PAYMENT	TOTAL PRINCIPAL PAYMENT	TOTAL EXPENSES
							1/			6/					
1988	14,518,316	600,000	1,362,498	3,038,305	41,888	4,724,736	0	3,194,673	0	0	3,194,673	1,659,977	(2,586,667)	(926,690)	26,553,726
1989	16,868,512	600,000	1,021,185	8,520,499	16,454	2,376,942	0	2,513,200	219,867	0	2,733,067	1,866,208	(2,329,541)	(463,333)	31,673,326
1990	18,987,849	600,000	1,097,740	10,935,114	81,349	5,143,434	0	2,466,308	435,350	0	2,901,658	1,107,074	(2,545,023)	(1,437,949)	38,309,195
1991	16,731,812	600,000	7,307,701	7,913,027	0	3,591,038	0	2,427,824	661,221	0	3,104,219	940,635	(2,770,895)	(1,830,260)	37,417,537
1992	15,509,820	600,000	1,905,698	13,277,959	912,939	7,536,153	0	2,399,605	896,747	0	3,296,352	924,596	0	924,596	43,963,517
1993	18,152,024	600,000	2,077,663	13,562,765	2,885,399	6,693,055	2,834,789	2,439,484	896,747	0	3,336,261	1,389,255	681,166	2,070,421	52,212,377
1994	20,482,950	600,000	2,397,810	12,162,513	4,068,171	7,861,229	(487,868)	2,355,151	833,739	0	3,188,860	1,378,704	740,834	2,079,538	52,353,203
1995	20,081,233	600,000	2,936,045	12,056,977	4,417,241	3,709,606	0	2,271,174	765,212	0	3,036,386	1,275,846	805,734	2,081,580	48,919,068
1996	21,642,765	600,000	4,400,129	11,526,374	3,945,530	3,720,973	0	12,118,113	634,093	0	12,752,206	1,494,044	876,328	2,370,372	60,956,340
1997	20,613,185	600,000	4,367,140	8,489,318	1,448,671	4,704,124	0	12,025,698	551,111	27,224	12,604,033	1,547,945	953,113	2,501,058	55,327,529
1998	23,434,651	600,000	3,647,350	8,603,234	2,005,549	3,867,101	0	11,935,205	466,734	31,245	12,433,184	1,604,004	1,036,633	2,640,637	57,231,706
1999	25,512,750	600,000	4,044,587	8,301,472	2,600,930	3,019,716	0	11,841,654	377,942	36,877	12,256,473	1,757,368	2,033,080	2,790,448	59,126,375
2000	26,521,151	600,000	6,117,505	8,221,682	2,959,433	1,667,009	0	11,901,057	52,707	36,132	11,989,896	777,209	3,105,238	3,882,447	61,959,123
2001	27,642,610	600,000	8,881,303	7,906,721	2,826,121	2,377,465	0	11,729,145	0	31,723	11,760,868	2,696,659	0	2,696,659	64,691,747
2002	28,171,154	600,000	6,862,682	8,521,447	2,538,839	2,886,712	0	11,605,769	0	20,663	11,626,432	2,771,279	0	2,771,279	63,978,545
2003	30,166,505	600,000	7,375,886	6,668,285	3,011,062	2,580,475	0	11,425,671	0	12,516	11,438,187	1,409,829	0	1,409,829	63,250,229
2004	31,042,955	600,000	7,158,289	6,490,565	3,984,519	2,937,415	0	11,321,912	0	9,528	11,331,440	1,435,126	0	1,435,126	64,980,309
2005	30,656,397	600,000	8,526,712	6,497,214	4,081,817	4,465,460	0	11,420,392	0	12,195	11,432,587	1,498,330	0	1,498,330	67,758,516
2006	30,882,149	600,000	8,875,903	6,153,834	4,404,016	3,081,498	0	11,297,293	0	10,059	11,307,352	1,574,967	0	1,574,967	66,879,719
2007	39,742,024	600,000	7,925,070	6,324,376	5,135,616	5,466,304	0	11,208,241	0	8,776	11,217,017	1,646,818	0	1,646,818	78,057,225
2008	41,377,742	600,000	8,294,446	6,282,800	8,253,658	6,817,934	0	11,124,877	0	7,587	11,132,464	1,779,859	0	1,779,859	84,538,903
2009	42,865,799	600,000	7,112,149	5,800,420	8,858,076	5,485,897	0	11,065,768	0	7,388	11,073,156	1,900,052	0	1,900,052	83,695,548
2010	45,397,385	600,000	7,136,591	5,754,983	9,322,156	6,161,066	0	11,023,174	0	6,907	11,030,081	1,890,398	0	1,890,398	87,292,659
2011	42,689,343	600,000	7,613,259	5,231,995	9,926,799	5,024,202	0	10,949,281	0	10,641	10,959,922	1,960,285	0	1,960,285	84,005,806
2012	48,337,666	600,000	6,777,063	4,872,558	10,436,524	6,329,748	0	10,870,781	0	10,152	10,880,933	1,931,322	0	1,931,322	90,165,813
2013	46,002,923	600,000	7,498,685	3,962,636	11,058,222	10,386,694	0	11,179,372	0	10,188	11,189,560	1,910,139	0	1,910,139	92,608,859
Prior Year Adjustments	(1,035,991)	0	(3,006,290)	2,371,917	(2,036,046)	(688,193)	(2,346,921)	71,880	0	94,757	166,637	0	0	0	(6,574,887)
HISTORICAL SUBTOTAL	742,995,678	15,600,000	139,714,799	209,448,989	107,184,932	121,927,793	0	226,038,942	6,791,470	384,558	233,373,904	41,087,928	0	41,087,928	1,611,334,015
2014	54,887,046	600,000	7,156,000	3,375,635	11,348,748	8,354,000	0	5,149,271	0	12,000	5,161,271	125,984,203	0	125,984,203	216,866,903
HISTORICAL TOTAL	797,882,724	16,200,000	146,870,799	212,824,625	118,533,679	130,281,793	0	231,188,213	6,791,470	396,558	238,535,175	167,072,131	0	167,072,131	1,828,200,918
2015	54,587,320	600,000	8,023,000	2,636,723	12,008,240	10,245,000	0	635,653	0	12,000	647,653	2,123,637	0	2,123,637	90,871,573
2016	52,732,909	600,000	8,264,000	2,011,384	12,766,618	13,079,000	0	571,944	0	12,000	583,944	2,241,595	0	2,241,595	92,279,540
2017	57,447,614	600,000	8,513,000	678,635	7,096,738	15,387,000	0	504,696	0	12,000	516,696	2,367,858	0	2,367,858	92,607,542
Future YR SUBTOTAL	962,650,567	18,000,000	171,670,799	218,151,367	150,405,275	168,992,793	0	232,900,508	6,791,470	432,558	240,283,469	173,805,221	0	173,805,221	2,103,959,483
2018	57,749,678	600,000	8,769,000	0	0	12,926,000	0	433,661	0	12,000	445,661	537,966	0	537,966	81,028,305
2019	58,963,406	600,000	9,032,000	0	0	4,672,000	0	417,522	0	12,000	429,522	554,105	0	554,105	74,251,033
2020	60,861,230	600,000	9,304,000	0	0	2,583,000	0	400,899	0	12,000	412,899	570,729	0	570,729	74,331,857
2021	63,410,776	600,000	9,583,000	0	0	579,000	0	383,777	0	12,000	395,777	587,850	0	587,850	75,156,403
2022	65,177,912	600,000	9,870,000	0	0	581,000	0	366,141	0	12,000	378,141	605,486	0	605,486	77,212,539
2023	66,654,619	600,000	10,166,000	0	0	610,000	0	347,977	0	12,000	359,977	623,650	0	623,650	79,014,246
2024	69,910,667	600,000	10,471,000	0	0	639,000	0	329,267	0	12,000	341,267	642,360	0	642,360	82,604,294
2025	63,785,667	600,000	10,471,000	0	0	639,000	0	309,996	0	12,000	321,996	661,631	0	661,631	76,479,294
2026	63,785,667	600,000	10,471,000	0	0	639,000	0	290,147	0	12,000	302,147	681,480	0	681,480	76,479,294
2027	63,785,667	600,000	10,471,000	0	0	639,000	0	269,703	0	12,000	281,703	701,924	0	701,924	76,479,294
2028	63,785,667	600,000	10,471,000	0	0	639,000	0	248,645	0	12,000	260,645	722,982	0	722,982	76,479,294
2029	63,785,667	600,000	10,471,000	0	0	639,000	0	228,956	0	12,000	240,956	744,671	0	744,671	76,479,294
2030	63,785,667	600,000	10,471,000	0	0	639,000	0	204,616	0	12,000	216,616	767,011	0	767,011	76,479,294
2031	63,785,667	600,000	10,471,000	0	0	639,000	0	181,605	0	12,000	193,605	790,022	0	790,022	76,479,294
2032	63,785,667	600,000	10,471,000	0	0	639,000	0	157,905	0	12,000	169,905	813,722	0	813,722	76,479,294
2033	63,785,667	600,000	10,471,000	0	0	639,000	0	133,493	0	12,000	145,493	838,134	0	838,134	76,479,294
2034	63,785,667	600,000	10,471,000	0	0	639,000	0	108,349	0	12,000	120,349	863,278	0	863,278	76,479,294
2035	63,785,667	600,000	10,471,000	0	0	639,000	0	82,451	0	12,000	94,451	889,176	0	889,176	76,479,294
2036	63,785,667	600,000	10,471,000	0	0	639,000	0	55,775	0	12,000	67,775	915,852	0	915,852	76,479,294
2037	63,785,667	600,000	10,471,000	0	0	639,000	0	28,300	0	12,000	40,300	943,326	0	943,326	76,479,294
2038	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2039	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2040	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2041	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2042	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2043	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2044	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
2045	63,785,667	600,000	10,471,000	0	0	639,000	0	0	0	12,000	12,000	0	0	0	75,507,667
STUDY TOTAL	2,744,877,862	34,800,000	458,756,799	218,151,367	150,405,275	205,00									

Boulder Canyon Project  
Power Repayment Study

	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)
	Linked to			Col.(15) minus		Col.(19)*0.5 +			Col.(19)*0.5 -		Sum of Columns
	Cash Management			Cols. (16+17+18)		Capacity Credit			Capacity Credit		(17, 18, 21, 24)
	sheet										
	PRIOR YEAR			ANNUAL							
	CARRY-OVER			REVENUE							
	BALANCE	WATER	OTHER REVENUE	REQUIREMENTS	ENERGY SALES	ENERGY	FORECAST/	CAPACITY SALES	CAPACITY DOLLARS	FORECAST	TOTAL REVENUES
Fiscal Year		SALES		BASE CHARGE		DOLLARS	CALCULATED			CAPACITY RATE	
					5/		ENERGY				
							RATE				
							7/				
1988	0	635,383	873,169	25,045,174	6,229,969	21,244,192.0	3.41	1,657,200	19,152,600.0	0.7500	41,905,344
1989	15,351,618	531,174	948,736	14,841,798	4,122,181	14,056,637.0	3.41	1,821,000	15,410,850.0	0.7500	30,947,397
1990	14,625,689	486,831	4,338,833	22,485,833	4,338,148	14,793,085.0	3.41	1,854,800	16,439,700.0	0.7500	32,430,458
1991	8,746,952	570,061	4,423,121	23,677,403	3,986,720	15,778,076.0	5.11	1,855,400	18,363,152.0	1.0500	39,134,410
1992	10,463,825	450,000	822,934	32,226,758	3,716,512	18,991,376.0	5.11	1,859,801	23,433,491.0	1.0500	43,697,801
1993	5,153,079	542,813	1,252,848	45,263,637	3,358,539	22,079,706.0	7.28	1,900,792	27,912,798.0	1.2800	51,788,165
1994	2,802,787	564,157	1,718,505	47,267,754	4,307,494	28,886,180.0	6.31	1,951,000	26,689,680.0	1.0700	57,858,522
1995	9,330,884	472,306	2,919,369	36,196,509	3,933,887	25,287,606.0	6.31	1,951,000	25,050,840.0	1.0700	53,730,121
1996	13,761,727	589,160	4,941,645	41,665,808	4,755,603	23,460,357.0	6.12	1,951,000	21,736,609.0	0.9284	50,727,771
1997	4,742,334	644,586	7,686,159	42,254,449	5,326,574	22,976,824.0	5.28	1,951,000	21,460,664.0	0.9167	52,768,233
1998	4,705,821	664,122	10,113,374	41,748,385	5,773,690	22,527,359.0	4.41	1,951,000	20,951,824.0	0.8949	54,256,679
1999	783,133	662,242	11,788,504	45,892,495	5,538,633	25,208,830.5	4.86	1,951,000	23,633,295.5	1.0095	61,292,872
2000	3,652,099	734,413	14,016,521	43,556,089	5,345,537	23,860,434.5	4.59	1,951,000	22,284,899.5	0.9519	60,896,268
2001	3,833,364	729,480	13,732,223	46,396,680	4,978,926	24,682,054.5	5.04	1,951,000	23,106,519.5	0.9870	62,250,277
2002	1,783,653	750,827	9,231,689	52,212,374	4,800,343	26,159,767.0	5.33	1,951,000	24,587,540.0	0.9924	60,729,823
2003	(2,375,188)	669,936	11,367,177	53,588,303	4,153,830	25,380,864.5	5.58	1,840,000	25,380,864.5	1.0841	62,798,842
2004	0	676,122	14,653,812	49,650,375	4,093,096	25,859,537.5	6.46	1,840,000	25,859,537.5	1.1712	67,049,009
2005	493,452	725,848	12,626,557	53,912,658	3,406,915	28,827,341.5	7.41	1,731,000	28,827,341.5	1.3878	71,007,088
2006	2,615,227	653,269	12,241,662	51,369,560	4,000,956	28,732,509.0	7.03	1,750,000	28,732,509.0	1.3682	70,359,949
2007	4,732,788	682,133	13,595,997	59,046,308	3,927,909	33,754,568.0	8.51	1,721,000	33,754,568.0	1.6344	81,787,266
2008	6,957,045	760,841	15,773,984	61,047,032	3,871,370	33,487,641.5	8.82	1,713,000	33,487,641.5	1.6291	83,510,108
2009	4,564,504	760,294	14,453,985	63,916,766	3,502,305	35,106,748.5	9.31	1,696,000	35,106,748.5	1.7250	85,427,776
2010	4,083,453	755,313	17,204,058	65,249,835	3,619,844	35,340,670.0	9.76	1,677,000	35,340,670.0	1.7561	88,640,711
2011	4,119,778	699,847	17,033,527	62,152,654	3,810,978	37,591,261.0	9.86	1,645,000	37,591,261.0	1.9043	92,915,896
2012	7,384,216	601,130	15,327,614	66,852,852	4,003,600	42,268,386.0	10.56	1,910,167	42,268,386.0	1.8440	100,465,516
2013	13,062,332	599,094	15,051,641	63,895,791	3,871,041	41,189,818.5	10.64	1,752,417	41,189,818.5	1.9587	98,030,372
Prior Year Adjustments	0	(78,701)	(4,010,947)	0	0	308,707.0	0.00	0	(2,108.0)	0.0000	(3,783,049)
HISTORICAL SUBTOTAL		16,532,681	240,498,707	697,840,538	112,774,600	697,840,538		47,783,577	697,751,701		1,652,623,626
2014	18,691,071	530,000	13,450,000	60,224,964	3,770,993	100,039,443.5	26.5287	1,693,667	100,039,443.5	4.9222	214,058,887
HISTORICAL TOTAL		17,062,681	253,948,707	758,065,502	116,545,593	797,879,981		49,477,244	797,791,144		1,866,682,513
2015	15,883,055	530,000	13,450,000	61,008,518	3,747,208	30,504,258.9	8.1405	1,581,750	30,504,258.9	1.6071	74,988,518
2016	0	530,000	13,450,000	78,299,450	3,504,000	39,149,725.2	11.1729	1,583,667	39,149,725.2	2.0601	92,279,450
2017	0	530,000	13,450,000	78,627,542	3,450,000	39,313,771.1	11.3953	1,583,667	39,313,771.1	2.0687	92,607,542
Future YR SUBTOTAL		18,652,681	294,298,707	127,246,801	906,847,736			54,226,328	906,758,899		2,126,558,023
2018	0	530,000	13,450,000	67,048,305	3,421,000	33,524,152.5	9.7995	2,074,000	33,524,152.5	1.3470	81,028,305
2019	0	530,000	13,450,000	60,271,033	3,426,000	30,135,516.5	8.7961	2,074,000	30,135,516.5	1.2108	74,251,033
2020	0	530,000	13,450,000	60,351,857	3,334,000	30,175,928.5	9.0510	2,074,000	30,175,928.5	1.2125	74,331,857
2021	0	530,000	13,450,000	61,176,403	3,275,000	30,588,201.5	9.3399	2,074,000	30,588,201.5	1.2290	75,156,403
2022	0	530,000	13,450,000	63,232,539	3,353,000	31,616,269.5	9.4292	2,074,000	31,616,269.5	1.2703	77,212,539
2023	0	530,000	13,450,000	65,034,246	3,315,000	32,517,123.0	9.8091	2,074,000	32,517,123.0	1.3065	79,014,246
2024	0	530,000	13,450,000	68,624,294	3,262,000	34,312,147.0	10.5187	2,074,000	34,312,147.0	1.3787	82,604,294
2025	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2026	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2027	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2028	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2029	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2030	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2031	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2032	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2033	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2034	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2035	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2036	0	530,000	13,450,000	62,499,294	4,501,001	31,249,647.0	6.9428	2,074,000	31,249,647.0	1.2556	76,479,294
2037	0	530,000	13,450,000	62,499,293	4,501,001	31,249,646.5	6.9428	2,074,000	31,249,646.5	1.2556	76,479,293
2038	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2039	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2040	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2041	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2042	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2043	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2044	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
2045	0	530,000	13,450,000	61,527,667	4,501,001	30,763,833.5	6.8349	2,074,000	30,763,833.5	1.2361	75,507,667
STUDY TOTAL		33,492,681	670,898,707	245,153,822	1,782,073,154			112,298,328	1,781,984,317		4,268,448,859