

## **Appendix D**

### **COST ESTIMATES**

**D-1: Status Quo Alternative**

**D-2: Transfer Ownership Alternative**

APPENDIX D-1

Status Quo Alternative

Repair, Rehabilitation and Replacement Cost

<u>Years</u>	<u>Safety Repairs Dam and Other</u>	<u>Safety Repairs Lock</u>	<u>Total Cost</u>	<u>Years</u>	<u>Discount Rate</u>	<u>Net Present Value</u>	<u>Equivalent Average Annual Cost</u>
2000			\$0	1	1.000	\$0	
2001			\$0	2	0.938	\$0	
2002			\$0	3	0.880	\$0	
2003	\$3,375,000	\$200,000	\$3,575,000	4	0.825	\$2,949,164	
2004		\$280,000	\$280,000	5	0.774	\$216,632	
2005		\$276,000	\$276,000	6	0.726	\$200,269	
2006			\$0	7	0.681	\$0	
2007	\$8,000	\$150,000	\$158,000	8	0.638	\$100,843	
2008	\$250,000		\$250,000	9	0.599	\$149,647	
2009	\$2,250,000	\$25,000	\$2,275,000	10	0.561	\$1,277,174	
2010			\$0	11	0.527	\$0	
2011			\$0	12	0.494	\$0	
2012			\$0	13	0.463	\$0	
2013			\$0	14	0.434	\$0	
2014			\$0	15	0.407	\$0	
2015	\$285,000	\$35,000	\$320,000	16	0.382	\$122,254	
2016			\$0	17	0.358	\$0	
2017			\$0	18	0.336	\$0	
2018			\$0	19	0.315	\$0	
2019			\$0	20	0.296	\$0	
2020		\$650,000	\$650,000	21	0.277	\$180,191	
2021			\$0	22	0.260	\$0	
2022			\$0	23	0.244	\$0	
2023			\$0	24	0.229	\$0	
2024			\$0	25	0.214	\$0	
2025	\$336,000	\$125,000	\$461,000	26	0.201	\$92,731	
2026	\$125,000		\$125,000	27	0.189	\$23,582	
2027	\$150,000		\$150,000	28	0.177	\$26,540	
2028	\$90,000		\$90,000	29	0.166	\$14,934	
2029	\$550,000	\$200,000	\$750,000	30	0.156	\$116,721	
<b>TOTAL</b>	<b>\$7,419,000</b>	<b>\$1,941,000</b>				<b>\$5,470,681</b>	<b>\$424,373</b>

APPENDIX D-2

Transfer Ownership Alternative  
Calculation of EAA Cost

	<u>Lock</u>	<u>Dam</u>	<u>Total Cost</u>	<u>NPV</u>	<u>EAA Cost</u>
First Cost	\$900,000	\$5,900,000	\$6,800,000	\$6,800,000	\$527,492
Annual O&M	\$22,000	\$215,500	\$237,500	\$237,500	\$237,500
Future RR&R	\$1,010,000	\$1,536,000	\$2,546,000	\$576,953	<u>\$44,756</u>
					<b>\$809,747</b>

FUTURE RR&R CALCULATION

	<u>After First Cost Work Completed</u>	<u>Future Capital RR&amp;R Lock</u>	<u>Future Capital RR&amp;R Dam</u>	<u>Total</u>	<u>Discount Rate</u>	<u>Net Present Value</u>
1				\$0	1.000	\$0
2				\$0	0.938	\$0
3				\$0	0.880	\$0
4				\$0	0.825	\$0
5				\$0	0.774	\$0
6				\$0	0.726	\$0
7				\$0	0.681	\$0
8				\$0	0.638	\$0
9				\$0	0.599	\$0
10				\$0	0.561	\$0
11				\$0	0.527	\$0
12				\$0	0.494	\$0
13				\$0	0.463	\$0
14				\$0	0.434	\$0
15				\$0	0.407	\$0
16		\$35,000	\$285,000	\$320,000	0.382	\$122,254
17				\$0	0.358	\$0
18				\$0	0.336	\$0
19				\$0	0.315	\$0
20				\$0	0.296	\$0
21		\$650,000		\$650,000	0.277	\$180,191
22				\$0	0.260	\$0
23				\$0	0.244	\$0
24				\$0	0.229	\$0
25				\$0	0.214	\$0
26		\$125,000	\$336,000	\$461,000	0.201	\$92,731
27			\$125,000	\$125,000	0.189	\$23,582
28			\$150,000	\$150,000	0.177	\$26,540
29			\$90,000	\$90,000	0.166	\$14,934
30		<u>\$200,000</u>	<u>\$550,000</u>	<u>\$750,000</u>	0.156	<u>\$116,721</u>
TOTAL		\$1,010,000	\$1,536,000	\$2,546,000		\$576,953