



DeSabla Centerville Project

FERC No. 803

Relicensing

Public Utility Economics

April 24, 2007



Public Utility “Cost of Service” Ratemaking

- PG&E has an the obligation to serve electricity to all who want it within its service territory.
- In exchange, PG&E has an opportunity to recover its reasonable costs (its “Cost of Service) through CPUC ratemaking

Public Utility Economics

- Public Utility economics are made from the customer's perspective
- PG&E is a net purchaser of electrical power, meaning PG&E no longer owns enough generating facilities to meet demand
- PG&E purchases supplemental electrical power from the market
- DeSabra-Centerville qualifies as a “renewable” electricity source per the State’s Renewable Portfolio Standard (RPS)

Resulting Economic Goals

- “Competitive” power generation projects are preferred; “economic” projects are essential
 - “Competitive” means the cost of replacing the project’s future generation with a market alternative exceeds unrecovered sunk costs plus future costs
 - “Economic” means the cost of replacing the project’s future generation with a market alternative exceeds future costs
- The CPUC’s expectation and PG&E obligation is for PG&E to obtain electric power for its customers from the least cost, best fit sources
- A problem occurs if a project’s cost-of-production exceeds the cost of purchasing equivalent electric power from market alternatives.

Economic Analysis Methods

- Life-cycle analyses using FERC's current-cost method
- Project costs summarized as Cost-of-Production (COP)
- Project benefits are the avoided replacement Power costs

One-Time and Annually Recurring Costs 2007 Dollars (x \$1,000)	FERC no action alternative	Estimated Range of Costs over New FERC License Term		
		Strawman PM&Es w/ Centerville Ph As-is	Strawman PM&Es w/ Centerville Ph Decom	Strawman PM&Es w/ Centerville Ph Rebuild
Relicensing Transaction cost	\$14,500	\$14,500	\$14,500	\$14,500
New License Condition Capital (Strawman)	\$0	\$4,800	\$4,800	\$4,800
New License Condition Annual Expense (Strawman)	\$0 /yr	\$785 /yr	\$785 /yr	\$785 /yr
Net Book Value	\$31,400	\$31,400	\$31,400	\$31,400
Avg Annual Other O&M	\$2,500 /yr	\$2,500 /yr	\$2,500 /yr	\$2,500 /yr
Centerville PH Capital Costs (As-is, Decom or Rebuild)	\$0	\$0 (As-is)	\$17,300 (Decom)	\$39,800 (Rebuild)
Avg Annual Other Capital	\$480 /yr	\$480 /yr	\$360 /yr	\$580 /yr
Average Annual Energy, GWh/yr	155.7 GWh/yr	119.9 GWh/yr	119.9 GWh/yr	140.5 GWh/yr
Replacement Power Value	\$12,876 /yr	\$9,964 /yr	\$9,916 /yr	\$11,622 /yr
	Historical Operations (prior to 2001) w/ Centerville Ph Generation	Historical Operations (prior to 2001) w/o Centerville Ph Generation	Historical Operations (prior to 2001) w/o Centerville Ph Generation	2005 Operating Plan w/ Centerville Ph Generation

Estimated Cost of Production (COP) over New License Term*

