

## APPENDIX C: COST CATEGORIES

Cost estimates were generated for each facility in terms of the 24 categories shown in Table C-1.

**Table C-1. Cost Categories for Facilities**

<b>PREOPERATIONAL "UP-FRONT" COSTS (OPC)</b>	
1	Research and development
2	NEPA, licensing, permitting
3	Conceptual design
4	Quality assurance, site qualification, safeguards and security plan
5	Post construction start-up
6	Risk contingency ( a fixed % of Cats 1-5 determined by estimator)
<b>CAPITAL "UP-FRONT" COSTS (TEC)</b>	
7	Title I, II, III engineering, design, & inspection
8a	Capital Equipment
8b	Direct & indirect construction/modification
9	Construction management
10	Initial spares (technology dependent)
11	Allowance for indeterminates (AFI) ( a % of Cats 7-10 determined by estimator)
12	Risk contingency (varies with alternative; reflects technology/schedule risk not in Cat. 11)
<b>OPERATING COSTS</b>	
13	Operations & maintenance staffing
14	Consumables including utilities and privately produced reactor fuel
15	Major capital replacements or upgrades (fixed % of capital per year determined by estimator)
16	Waste handling and disposal (spent fuel, HLW, TRU, mixed, and LLW)
17	Oversight - DNFSB or NRC
18	Management and operations contractor fees (2% of cats 13-17) (Gov't owned facility only)
19	Payments-in-lieu-of-taxes to local communities (PILT) 1% of 13-17 (Gov't owned facility only)
20	Decontamination and decommissioning (fixed % of facility capital cost determined by estimator)
21	Revenues (if applicable, i.e. sales of MOX fuel, electricity, or reactor facility)
22	Government fees to private-owned facilities
23	Transportation of plutonium forms to facility and wastes out of facility
24	Storage of plutonium at existing 94-1 site facility (to be determined) (Not considered in this report, assumed to be DOE/EM cost)