



Project: Haines Public Safety Building LCCA

Project No: B13.04450

Life Cycle Cost Analysis

Inputs	
Inflation Rate	7.5%
Discount Rate (Real)	3.0%
Utility Escalation Rate (Real)	2.0%
Duration of Study	50 years

Building	Existing	Existing (Predicted)	Typical New Construction			High Performance New Construction		
	Annual Cost	Annual Cost	Annual Cost	Annual Cost Savings	Life Cycle NPV Savings	Annual Cost	Annual Cost Savings	Life Cycle NPV Savings
Public Safety (Existing)	\$23,363	\$28,028	\$18,700	\$9,328	\$367,500	\$8,400	\$19,628	\$773,000
Admin (Existing)	\$8,228	\$9,530	\$5,300	\$4,230	\$167,000	\$2,400	\$7,130	\$281,000
PSB (New)	--	--	\$28,900	\$8,658	\$341,000	\$11,300	\$26,258	\$1,034,000

Notes:

Existing (Predicted) Costs adjust reported fuel oil bills to current fuel oil rates

DOE Inflation Rate is 3%.

DOE Discount Rate is 3%, typical discount rates vary from 3%-6%

FEMP Utility Escalation Rate (Real) for 70% Fuel Oil / 30% Elec is 0.59%. Rate tends to be skewed low. Typical rates 2%-5%

Life Cycle Cost Savings rounded to nearest \$500

New PSB savings are relative to current building bills