Re: Page B-96, Replace Insulators, $294,300

Q. Please provide a replacement for the chart provided on page B-97 which includes the number of units replaced in each year, the average unit cost in each year, and the information for 2007F.

A. The following table summarizes the original planned insulator replacement program showing types of insulators, project cost and average unit cost, on a yearly basis, starting in 2006.

	Post	Suspension	Cap and Pin	Project Cost/Budget	Average Unit Cost
2006	48	337	217	$256,193 (A)	$620
2007	134	25	6	$294,300 (B)	$1,784
2008	94	158	82	$323,700 (B)	$970
2009	93	120	125	$355,300 (B)	$1,051
2010	114	185	83	$506,500 (B)	$1,326

In the first year of the program 2006, resources and planned outages were generally unavailable, and very few insulators were replaced. Therefore, the approved funds for 2006 were used to purchase insulators that would be installed in later years. The table above shows the original planned replacements.

The table below shows the revised plan for replacements starting in 2007 and continuing to 2011.

	Post	Suspension	Cap and Pin	Project Cost/Budget	Average Unit Cost
2007	48	337	217	$313,000 (F)	$1,656
2008	134	25	6	$294,300 (B)	$1,784
2009	94	158	82	$323,700 (B)	$970
2010	93	120	125	$355,300 (B)	$1,051
2011	114	185	83	$506,500 (B)	$1,326

It should be noted that while the average unit cost is provided here, as requested, it has little meaning. Costs for individual installations vary significantly due to station location, voltage class, station configuration, available outages, weather, system load, etc.. Therefore, the average insulator unit supply costs are much better summarized by voltage class, as follows:

Voltage Class	Approximate Supply Cost Post Insulator	Approximate Supply Cost Suspension Insulator
230 kV	$800	$420
138 kV	$500	$140
66/69 kV	$300	$85