

FAC 8131 Electrical Power Substation

RUC: \$202.00 KV

Source: PACES

Inflated from V10 by removing previous projected inflation, inflating to FY-08 using SPBI, projecting to FY-09 using Green Book Table 5-6, MCON
In V12, Tri-Service and USACE PAX Newsletter values were updated while all other values were inflated only.

SUC: \$16.51 KV

Source: Commercial quote and R.S. Means, shown below

Inflated to FY-09 using Green Book Table 5-6 (O&M less DHP)

In V12, values were inflated only.

FAC 8131 Unit Substation

Inventory average: 500KVA

Assumptions:

1. Oil filled, pad mounted, 4160 Primary, 208Y secondary
2. Life expectancy = 40 Years
3. Labor rate = **\$68.05** from R.S. Means, Electrician, 2008
4. Refurbishment: 10 Year intervals

Cost Elements:	Hrs	Price	Other	Total	Annualized	Notes
Transformer						
Annual maintenance	6	\$408.27		\$408.27	\$408.27	1
Refurbishment			19173.557	\$19,173.56	\$1,917.36	4
Switchgear: 1 Primary Section, 2 Secondary Sections						
Annual maintenance	12	\$816.55				2
Replacement						
Unit substation replacement		\$171,000.00	\$15,000.00	\$240,092.95	\$6,002.32	3
Total					\$8,327.95	
Per KV (KVA)					\$16.66	
FY-08 SCP					\$17.029	

Notes

1. Tasks from Sunbelt Transformer Inc O&M Manual
2. Square D maintenance engineer recommendation
3. Price from quote of Siemens : Includes transformer, shipping and equipment rental; 12/07.
4. Quote from Uptegraff Mfg Co., 11/17/04, inflated using DoD Selling Price Based Index

DoD Selling Price Based Index: July 08/July 04 = 152.06/111.03 = 1.3695398

DoD Selling Price Based Index: July 07/July 04 = 143.32/111.03 = 1.2908223

Labor adjusted for DC

70.15 0.97 **68.0455**