

**FAC 8133      Electrical Power Transformers**

RUC:              \$34.65 KV

Source:          USACE PAX Newsletter 3.2.2 dated 20 Mar 09  
CatCode 81360   Inventory average = 715 kva  
Deflated to FY-09 using Appendix C of newsletter  
In V12, Tri-Service and USACE PAX Newsletter values were updated while all  
other values were inflated only.

SUC:              \$5.01 KV

Source:          R. S. Means Facilities Maintenance and Repair and supplier quotation  
In V12, values were inflated only.

Calculation follows:

## FAC 8133 Transformer

Inventory average: 500KVA

Assumptions:

1. Oil filled, pad mounted, 4160 Primary, 208Y secondary
2. Life expectancy = 40 Years
3. Labor rate = **\$70.15** from R.S. Means, Electrician, 2004
4. Refurbishment: 10 Year intervals

| Cost Elements:     | Hrs | Price      | Other    | Total       | Annualized | Notes |
|--------------------|-----|------------|----------|-------------|------------|-------|
| <b>Transformer</b> |     |            |          |             |            |       |
| Annual maintenance | 6   | \$420.90   |          | \$420.90    | \$420.90   | 1     |
| Refurbishment      |     |            | \$14,000 | \$14,000.00 | \$1,400.00 | 2     |
| Replacement        | 72  | \$5,050.80 | \$15,642 | \$28,339.00 | \$708.47   | 3     |
| Total              |     |            |          |             | \$2,529.37 |       |

Per KV (KVA) \$5.06

|                  |                |
|------------------|----------------|
| <b>FY-08 SCP</b> | <b>\$5.172</b> |
|------------------|----------------|

Notes

1. Tasks from Sunbelt Transformer Inc O&M Manual
2. Quote from Uptegraff Mfg Co, 17 Nov 04
3. Quote of Alfa Transformer Co., 11/12/04: includes transformer, shipping and equipment rental

Quote inflated to 2008 from 2004 using DOD SPBI

|              |                           |
|--------------|---------------------------|
| \$ 20,692.80 | Quote                     |
| 1.36951      | SPBI Factor, 2004 to 2008 |
| \$ 28,339    | 2008 Price                |