

**FAC 8133 ELECTRICAL POWER TRANSFORMERS**

FY22 SUC:           \$6.65 / KV

Source:             Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8133 ELECTRICAL POWER TRANSFORMERS

SUC \$6.65

Release 2021 Qtr 3  
Zip Code Prefix 222  
Type MR

UM KV  
Design Life 45  
Average Size 1630.0

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost
Repair 500 kva transformer, primary, liquid filled	10	4.00 Ea.	\$11,262.92	\$12,948.21	4.5000	4	4	\$51,792.84	\$51,792.84
Maintenance and inspection primary transformer, liquid filled	0.5	4.00 Ea.	\$162.58	\$203.69	90.0000	90	90	\$18,331.73	\$18,331.73
Replace transformer 500 KVA, liquid filled	30	4.00 Ea.	\$109,299.72	\$126,500.71	1.5000	1	1	\$126,500.71	\$126,500.71
Repair switchgear 1200 A mainframe	5	2.00 Ea.	\$3,809.08	\$4,455.15	9.0000	9	7	\$40,096.34	\$31,186.05
Maintenance and inspection switchgear, mainframe	1	2.00 Ea.	\$129.55	\$162.31	45.0000	45	45	\$7,304.05	\$7,304.05
Replace switchgear 1200 A mainframe	20	2.00 Ea.	\$8,700.24	\$10,450.95	2.2500	2	2	\$20,901.91	\$20,901.91
Replace fuse	25	12.00 Ea.	\$4,957.97	\$5,696.38	1.8000	1	1	\$5,696.38	\$5,696.38
Maintenance and inspection switchgear, indoor, less than 600 V	3	6.00 Ea.	\$243.87	\$305.53	15.0000	15	15	\$4,582.93	\$4,582.93
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	12.00 Ea.	\$487.73	\$611.06	5.6250	5	5	\$3,055.29	\$3,055.29
Repair cable splice overhead service	12	1.00 M.L.F.	\$530.64	\$661.88	3.7500	3	3	\$1,985.64	\$1,985.64
Cable inspection overhead service, splice	5	1.00 M.L.F.	\$44.29	\$55.49	9.0000	9	9	\$499.39	\$499.39
Replace service cable overhead service, splice	30	1.00 M.L.F.	\$2,403.15	\$2,919.44	1.5000	1	1	\$2,919.44	\$2,919.44
Maintenance and repair special ground system	4	1.00 Ea.	\$21.59	\$27.05	11.2500	11	11	\$297.57	\$297.57
			\$142,053.33	\$164,997.84					
								MR Subtotal	\$275,053.92
								MR Per Year	\$6,112.31
								PM Total	\$4,733.44
								Subtotal	\$10,845.75
								Total Per Unit	\$6.65

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UM KV

Zip Code Prefix 222

Design Life 45

Type PM

Average Size 1630.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Switchboard, with air circuit breaker, annualized	2.00	26.64	\$34.33	\$1,750.84	\$0.00	\$1,785.17	\$2,313.86	\$2,844.26
Circuit breaker, high voltage air, annualized	12.00	5.64	\$181.87	\$372.96	\$0.00	\$554.83	\$684.90	\$824.07
Switch, interrupt, high voltage, fused air, annualized	8.00	2.91	\$121.25	\$190.62	\$0.00	\$311.87	\$381.18	\$456.56
Transformer, oil pad mounted, annually	4.00	4.33	\$0.33	\$285.94	\$0.00	\$286.27	\$372.08	\$457.91
Cathodic protection system, annualized	1.00	1.46	\$19.33	\$79.05	\$0.00	\$98.38	\$124.03	\$150.64
						\$3,036.52	\$3,876.05	\$4,733.44

# **FAC 8133 ELECTRICAL POWER TRANSFORMERS**

## **Modeled Component List CostWorks Release 2021 Qtr 3**

D50 Electrical

Switchgear, Mainframe

2.0 Ea.

G40 Site Electrical Utilities

Cathodic Protection, annualized

1.0 Each

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Sustainment by Year  
CostWorks Release 2021 Qtr 3

