

**FAC 8133 ELECTRICAL POWER TRANSFORMERS**

FY24 SUC: \$8.55 / KV  
Source: Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 8133 ELECTRICAL POWER TRANSFORMERS

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM KV  
Design Life 45  
Average Size 1316.659796

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
Minor repairs to concrete floor unfinished	15	16.00 S.F.	\$610.14	\$744.59	3.0000	3	3	\$2,233.77	\$2,233.77
Repair 500 kva transformer, primary, liquid filled	10	4.00 Ea.	\$10,440.25	\$12,021.47	4.5000	4	4	\$48,085.88	\$48,085.88
Maintenance and inspection primary transformer, liquid filled	0.5	4.00 Ea.	\$169.38	\$212.20	90.0000	90	90	\$19,098.41	\$19,098.41
Replace transformer 500 KVA, liquid filled	30	4.00 Ea.	\$267,308.00	\$306,195.08	1.5000	1	1	\$306,195.08	\$306,195.08
Replace fuse	25	12.00 Ea.	\$5,482.74	\$6,296.03	1.8000	1	1	\$6,296.03	\$6,296.03
Maintenance and inspection switchgear, indoor, less than 600 V	3	4.00 Ea.	\$169.38	\$212.20	15.0000	15	15	\$3,183.07	\$3,183.07
Repair switchboard meter	10	1.00 Ea.	\$1,218.62	\$1,434.12	4.5000	4	4	\$5,736.50	\$5,736.50
Replace switchboard meter	20	2.00 Ea.	\$8,309.50	\$9,484.29	2.2500	2	2	\$18,968.58	\$18,968.58
Replace service cable	50	0.02 M.L.F.	\$79.18	\$95.74	0.9000	0	0	\$0.00	\$0.00
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	12.00 Ea.	\$508.13	\$636.61	5.6250	5	5	\$3,183.07	\$3,183.07
Maintenance and repair special ground system	4	1.00 Ea.	\$22.69	\$28.43	11.2500	11	11	\$312.68	\$312.68
Repair cable splice overhead service	12	0.50 M.L.F.	\$277.67	\$346.61	3.7500	3	3	\$1,039.83	\$1,039.83
Cable inspection overhead service, splice	5	0.50 M.L.F.	\$23.31	\$29.20	9.0000	9	9	\$262.83	\$262.83
Replace service cable overhead service, splice	30	0.50 M.L.F.	\$1,304.10	\$1,580.53	1.5000	1	1	\$1,580.53	\$1,580.53
			\$295,923.08	\$339,317.11					
							MR Subtotal	\$416,176.25	
							MR Per Year	\$9,248.36	
							PM Total	\$2,013.16	
							Subtotal	\$11,261.52	
							Total Per Unit	\$8.55	

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SUC \$8.55

Release 2023 Qtr 4

UM KV

Zip Code Prefix 222

Design Life 45

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Average Size 1316.659796

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Circuit breaker, high voltage air, annualized	12.00	5.64	\$165.95	\$389.72	\$0.00	\$555.67	\$689.18	\$830.99
Switch, interrupt, high voltage, fused air, annualized	10.00	3.64	\$138.29	\$252.59	\$0.00	\$390.89	\$480.49	\$577.02
Transformer, oil pad mounted, annually	3.00	3.25	\$2.53	\$225.79	\$0.00	\$228.32	\$296.31	\$364.43
Power stablizer, annualized	1.00	0.62	\$9.16	\$39.69	\$0.00	\$48.85	\$61.68	\$74.96
Cathodic protection system, annualized	1.00	1.46	\$26.08	\$83.23	\$0.00	\$109.31	\$136.89	\$165.77
						\$1,333.04	\$1,664.55	\$2,013.16



# **FAC 8133 ELECTRICAL POWER TRANSFORMERS**

## **Modeled Component List**

### **CostWorks Release 2023 Qtr 4**

D50 Electrical

Cable, Service

0.02 M.L.F.

G40 Site Electrical Utilities

Cathodic Protection, annualized

1.0 Each

FAC 8133 ELECTRICAL POWER TRANSFORMERS  
Sustainment by Year  
CostWorks Release 2023 Qtr 4

