



**Department of Energy**  
Western Area Power Administration  
Sierra Nevada Customer Service Region  
114 Parkshore Drive  
Folsom, California 95630-4710

DEC 10 2018

Ms. Michelle Bertolino  
Electric Utility Director  
City of Roseville  
2090 Hilltop Circle  
Roseville, CA 95747

Dear Ms. Bertolino:

Enclosed please find two originals of Exhibit B, Revision 4, to Contract 04-SNR-00850 between the City of Roseville (Roseville), and the Western Area Power Administration (WAPA). The Contract provides for WAPA to perform operations and maintenance on certain equipment located within Roseville's Fiddymont 230-kV Substation. The Exhibit provides the cost for WAPA to perform said operations and maintenance for calendar years 2019 through 2023. Exhibit B, Revision 3 did not include the cost of the operations services and, therefore, we must execute this Revision 4.

If Roseville is in agreement with the terms and conditions of Exhibit B, Revision 4, please have the appropriate Roseville official sign both originals, have the signatures attested, and return both original documents to Mr. Joshua Blake at this office. Once WAPA has signed the exhibit, we will return an executed original to you for your files.

If you have any questions, please contact Ms. Sandee Peebles at (916) 353-4454.

Sincerely,

A handwritten signature in black ink, reading "Dawn Roth Lindell".

Dawn Roth Lindell  
Acting Senior Vice President and  
Sierra Nevada Regional Manager

Enclosure

EXHIBIT B  
(Itemized Estimated Cost of Operations and Maintenance)

This Exhibit B, Revision 4, effective under and as a part of Contract 04-SNR-00850, shall become effective on January 1, 2019; shall terminate and supersede Exhibit B, Revision 3; and shall remain in effect until either superseded by another Exhibit B or termination of the Contract.

1. Maintenance:

1.1 The estimated annual charges for the operation and maintenance of the 230-kV portion of the Fiddymont 230/60-kV Substation facilities up to the high side bushing of the 230/60/12-kV transformer, including but not limited to, the 230-kV revenue metering equipment and associated instrument transformers, 230-kV breakers, buswork, disconnects, and associated equipment, the fiber optic communication system and SCADA system, and the 230-kV protection and control systems, are based on the following:

- 1.1.1 Three power circuit breakers;
- 1.1.2 Nine disconnect switches;
- 1.1.3 Two ground switches;
- 1.1.4 Three potential transformers;
- 1.1.5 One remote terminal unit;
- 1.1.6 Communication equipment;
- 1.1.7 Protective relays; and
- 1.1.8 Miscellaneous ancillary equipment.

1.2 The estimated work and labor-days for the years 2019 through 2023 are attached.

1.3 The yearly cost for WAPA to perform the work is as follows:

2019	2020	2021	2022	2023
\$16,297.01	\$12,050.87	\$47,940.91	\$30,027.96	\$13,206.70

2. Operations:

2.1 Roseville shall be assessed a year charge for WAPA's operations services.

2.2 The yearly cost for WAPA to perform operations is as follows:

2019	2020	2021	2022	2023
\$31,650.84	\$32,600.37	\$33,578.38	\$34,585.73	\$35,623.30

CITY OF ROSEVILLE

By: \_\_\_\_\_

Name:

Title: City Manager

Address: 311 Vernon Street  
Roseville, CA 95747

Dated: \_\_\_\_\_

Attest:

By: \_\_\_\_\_

Title: \_\_\_\_\_

WESTERN AREA POWER ADMINISTRATION

By: \_\_\_\_\_

Name:

Title: Acting Senior Vice President and  
Sierra Nevada Regional Manager

Address: 114 Parkshore Drive  
Folsom, California 95630

Dated: \_\_\_\_\_

**Exhibit B  
Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2019</b>									
<b>Fiddymont Substation</b>									
FIY	SUBSTATION	FIY SUBSTATION	Substation Inspection (monthly)	Electrician	\$ 174.57	24			\$ 4,189.71
FIY	SUBSTATION	FIY SUBSTATION	Protection and Communication Inspection (Quarterly)	P&C Craftsman	\$ 192.02	8			\$ 1,536.16
FIY	SUBSTATION	FIY SUBSTATION	Infrared Inspection (annual)	Electrician	\$ 174.57	1			\$ 174.57
FIY	SUBSTATION	FIY SUBSTATION	Annual Substation Herbicide	Electrician	\$ 174.57	1	2,735.00	Contracted Application	\$ 2,909.57
FIY	SUBSTATION	ENGINEERING	Engineering Support	Engineer	\$ 191.66	5			\$ 958.31
FIY	AUTOMATION \ ANNUNC	FIY ANN-C5F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C4F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C3F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ COMMPROC	FIY 2020 COMMUNICATIONS PROCESSOR	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ BOUNDARY_METERING	FIY CONTROL AREA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ SCADA_DATA	FIY SCADA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	BREAKER \ GAS	FIY 1582 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 174.57		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1182 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 174.57		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1482 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 174.57		NEXT DUE 2022		
FIY	BUILDING	FIY BALM-CTL - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	COMM \ FIBER \ PANEL	FIY SONET JUNGLE MUX TO/FROM ELV & RSC - TRUST	1 year JMUX Maintenance	P&C Craftsman	\$ 192.02	3			\$ 576.06
FIY	METER \ MICROPRO	FIY 185-05 REVENUE METER - TRUST	1 Year Meter Maintenance	P&C Craftsman	\$ 192.02	4			\$ 768.08
FIY	METER \ PANEL	FIY INS-A3F - ROSEVILLE LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	METER \ PANEL	FIY INS-A4F - ELVERTA LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	PANEL	FIY CNT-BRDS - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	REALPROP	FIY SWITCHYARD AREA	No Scheduled Maintenance				Included with Substation Inspection (above)		
FIY	RECORDER \ DFR	FIY DFR 1A - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	RELAY \ ELECMECH	FIY 86BF1 AUX RELAY (CHA3R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02		NEXT DUE 2021		
FIY	RELAY \ ELECMECH	FIY 86BF4 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02	6			\$ 1,152.12
FIY	RELAY \ ELECMECH	FIY 86BF5 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02	6			\$ 1,152.12
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF B PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02		NEXT DUE 2021		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF A PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02		NEXT DUE 2021		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF C PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 192.02		NEXT DUE 2021		
FIY	RELAY \ MICROPRO	FIY 87LR1 ROSEVILLE LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	6			\$ 1,152.12

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2019</b>									
FIY	RELAY \ MICROPRO	FIY 79/25-E1 ELVERTA LINE RECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 79/25-R1 ROSEVILLE LINE RECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	6			\$ 1,152.12
FIY	RELAY \ MICROPRO	FIY 87LE1 ELVERTA LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 50BF-5 1582 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 21/21G-E1 ELVERTA LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 21/21G-R1 ROSEVILLE LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 50BF-4 1482 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	RELAY \ MICROPRO	FIY 50BF-1 1182 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 192.02	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1181 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1581 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1481 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1483 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1087 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1287 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1281 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1081 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1183 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ GROUND \ MANUAL	FIY 1080 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	SWITCH \ GROUND \ MANUAL	FIY 1280 - TRUST	6 year Switch Maintenance	Electrician	\$ 174.57	NEXT DUE 2021			
FIY	TIMING	FIY TIME - STD SATELLITE CLOCK	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2B-A - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2B-B - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2B-C - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2A-A - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY1A-B - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY1A-C - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2A-C - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY2A-B - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CCVT	FIY VY1A-A - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CT	FIY 185-05-CT2 - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			
FIY	TRANSFMR \ CT	FIY 185-05-CT1 - TRUST	No Scheduled Maintenance			NO SCHEDULED MAINTENANCE			

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2019</b>									
FIY	TRANSFMR \ CT	FIY 185-05-CT3 - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	TRNSDUCR	FIY TD-CAT - TRUST	1 year Transducer Maintenance	P&C Craftsman	\$ 192.02	3			\$ 576.06
							<b>TOTAL FORECAST:</b>		<b>\$ 16,297.01</b>

**NOTE:**

<sup>1</sup>Rate increases are estimated at 3.1% per year. FY19 this includes an additional adjustment for elimination of the General Western Allocation (GWA) to streamline indirect cost pools.

<sup>2</sup>Costs do not include emergency or non-planned work activities.



**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2020</b>									
<b>Fiddymont Substation</b>									
FIY	SUBSTATION	FIY SUBSTATION	Substation Inspection (monthly)	Electrician	\$ 179.98	24			\$ 4,319.59
FIY	SUBSTATION	FIY SUBSTATION	Protection and Communication Inspection (Quarterly)	P&C Craftsman	\$ 197.97	8			\$ 1,583.78
FIY	SUBSTATION	FIY SUBSTATION	Infrared Inspection (annual)	Electrician	\$ 179.98	1			\$ 179.98
FIY	SUBSTATION	FIY SUBSTATION	Annual Substation Herbicide	Electrician	\$ 179.98	1	2,819.79	Contracted Application	\$ 2,999.77
FIY	SUBSTATION	ENGINEERING	Engineering Support	Engineer	\$ 197.60	5			\$ 988.01
FIY	AUTOMATION \ ANNUNC	FIY ANN-C5F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C4F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C3F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ COMMPROC	FIY 2020 COMMUNICATIONS PROCESSOR	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ BOUNDARY_METERING	FIY CONTROL AREA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ SCADA_DATA	FIY SCADA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	BREAKER \ GAS	FIY 1582 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 179.98		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1182 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 179.98		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1482 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 179.98		NEXT DUE 2022		
FIY	BUILDING	FIY BALM-CTL - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	COMM \ FIBER \ PANEL	FIY SONET JUNGLE MUX TO/FROM ELV & R SC - TRUST	1 year JMUX Maintenance	P&C Craftsman	\$ 197.97	3			\$ 593.92
FIY	METER \ MICROPRO	FIY 185-05 REVENUE METER - TRUST	1 Year Meter Maintenance	P&C Craftsman	\$ 197.97	4			\$ 791.89
FIY	METER \ PANEL	FIY INS-A3F - ROSEVILLE LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	METER \ PANEL	FIY INS-A4F - ELVERTA LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	PANEL	FIY CNT-BRDS - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	REALPROP	FIY SWITCHYARD AREA	No Scheduled Maintenance				Included with Substation Inspection (above)		
FIY	RECORDER \ DFR	FIY DFR 1A - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	RELAY \ ELECMECH	FIY 86BF1 AUX RELAY (CHA3R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2021		
FIY	RELAY \ ELECMECH	FIY 86BF4 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2025		
FIY	RELAY \ ELECMECH	FIY 86BF5 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2025		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF B PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2021		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF A PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2021		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF C PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2021		
FIY	RELAY \ MICROPRO	FIY 87LR1 ROSEVILLE LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97		NEXT DUE 2031		

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2020</b>									
FIY	RELAY \ MICROPRO	FIY 79/25-E1 ELVERTA LINE RE CL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 79/25-R1 ROSEVILLE LINE RE CL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 87LE1 ELVERTA LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-5 1582 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-E1 ELVERTA LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-R1 ROSEVILLE LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-4 1482 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-1 1182 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 197.97			NEXT DUE 2031	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1181 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1581 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1481 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1483 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1087 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1287 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1281 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1081 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1183 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ GROUND \ MANUAL	FIY 1080 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	SWITCH \ GROUND \ MANUAL	FIY 1280 - TRUST	6 year Switch Maintenance	Electrician	\$ 179.98			NEXT DUE 2021	
FIY	TIMING	FIY TIME - STD SATELLITE CLOCK	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT2 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT1 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	



**Exhibit B  
Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2020</b>									
FIY	TRANSFMR \ CT	FIY 185-05-CT3 - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	TRNSDUCR	FIY TD-CAT - TRUST	1 year Transducer Maintenance	P&C Craftsman	\$ 197.97	3			\$ 593.92
							<b>TOTAL FORECAST:</b>		<b>\$ 12,050.87</b>

**NOTE:**

<sup>1</sup>Rate increases are estimated at 3.1% per year.

<sup>2</sup>Costs do not include emergency or non-planned work activities.

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2021</b>									
<b>Fiddymont Substation</b>									
FIY	SUBSTATION	FIY SUBSTATION	Substation Inspection (monthly)	Electrician	\$ 185.56	24			\$ 4,453.50
FIY	SUBSTATION	FIY SUBSTATION	Protection and Communication Inspection (Quarterly)	P&C Craftsman	\$ 204.11	8			\$ 1,632.88
FIY	SUBSTATION	FIY SUBSTATION	Infrared Inspection (annual)	Electrician	\$ 185.56	1			\$ 185.56
FIY	SUBSTATION	FIY SUBSTATION	Annual Substation Herbicide	Electrician	\$ 185.56	1	2,907.20	Contracted Application	\$ 3,092.76
FIY	SUBSTATION	ENGINEERING	Engineering Support	Engineer	\$ 203.73	5			\$ 1,018.64
FIY	AUTOMATION \ ANNUNC	FIY ANN-C5F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C4F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C3F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ COMMPROC	FIY 2020 COMMUNICATIONS PROCESSOR	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ BOUNDARY_METERING	FIY CONTROL AREA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ SCADA_DATA	FIY SCADA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	BREAKER \ GAS	FIY 1582 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 185.56		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1182 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 185.56		NEXT DUE 2022		
FIY	BREAKER \ GAS	FIY 1482 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 185.56		NEXT DUE 2022		
FIY	BUILDING	FIY BALM-CTL - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	COMM \ FIBER \ PANEL	FIY SONET JUNGLE MUX TO/FROM ELV & R SC - TRUST	1 year JMUX Maintenance	P&C Craftsman	\$ 204.11	3			\$ 612.33
FIY	METER \ MICROPRO	FIY 185-05 REVENUE METER - TRUST	1 Year Meter Maintenance	P&C Craftsman	\$ 204.11	4			\$ 816.44
FIY	METER \ PANEL	FIY INS-A3F - ROSEVILLE LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	METER \ PANEL	FIY INS-A4F - ELVERTA LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	PANEL	FIY CNT-BRDS - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	REALPROP	FIY SWITCHYARD AREA	No Scheduled Maintenance				Included with Substation Inspection (above)		
FIY	RECORDER \ DFR	FIY DFR 1A - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	RELAY \ ELECMECH	FIY 86BF1 AUX RELAY (CHA3R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11	6			\$ 1,224.66
FIY	RELAY \ ELECMECH	FIY 86BF4 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11		NEXT DUE 2025		
FIY	RELAY \ ELECMECH	FIY 86BF5 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11		NEXT DUE 2025		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF B PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11	6			\$ 1,224.66
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF A PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11	6			\$ 1,224.66
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF C PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 204.11	6			\$ 1,224.66
FIY	RELAY \ MICROPRO	FIY 87LR1 ROSEVILLE LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11		NEXT DUE 2031		

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2021</b>									
FIY	RELAY \ MICROPRO	FIY 79/25-E1 ELVERTA LINE RECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 79/25-R1 ROSEVILLE LINE RECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 87LE1 ELVERTA LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-5 1582 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-E1 ELVERTA LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-R1 ROSEVILLE LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-4 1482 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-1 1182 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 204.11			NEXT DUE 2031	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1181 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1581 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1481 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1483 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1087 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1287 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1281 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1081 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1183 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ GROUND \ MANUAL	FIY 1080 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	SWITCH \ GROUND \ MANUAL	FIY 1280 - TRUST	6 year Switch Maintenance	Electrician	\$ 185.56	15			\$ 2,783.44
FIY	TIMING	FIY TIME - STD SATELLITE CLOCK	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT2 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT1 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	

**Exhibit B  
 Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2021</b>									
FIY	TRANSFMR \ CT	FIY 185-05-CT3 - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	TRNSDUCR	FIY TD-CAT - TRUST	1 year Transducer Maintenance	P&C Craftsman	\$ 204.11	3			\$ 612.33
							<b>TOTAL FORECAST:</b>		<b>\$ 47,940.91</b>

NOTE:

<sup>1</sup>Rate increases are estimated at 3.1% per year.

<sup>2</sup>Costs do not include emergency or non-planned work activities.



**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2022</b>									
<b>Fiddymont Substation</b>									
FIY	SUBSTATION	FIY SUBSTATION	Substation Inspection (monthly)	Electrician	\$ 191.32	24			\$ 4,591.56
FIY	SUBSTATION	FIY SUBSTATION	Protection and Communication Inspection (Quarterly)	P&C Craftsman	\$ 210.44	8			\$ 1,683.50
FIY	SUBSTATION	FIY SUBSTATION	Infrared Inspection (annual)	Electrician	\$ 191.32	1			\$ 191.32
FIY	SUBSTATION	FIY SUBSTATION	Annual Substation Herbicide	Electrician	\$ 191.32	1	2,997.32	Contracted Application	\$ 3,188.64
FIY	SUBSTATION	ENGINEERING	Engineering Support	Engineer	\$ 210.04	5			\$ 1,050.22
FIY	AUTOMATION \ ANNUNC	FIY ANN-C5F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C4F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C3F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ COMMPROC	FIY 2020 COMMUNICATIONS PROCESSOR	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ BOUNDARY_METERING	FIY CONTROL AREA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ SCADA_DATA	FIY SCADA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	BREAKER \ GAS	FIY 1582 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 191.32	30			\$ 5,739.45
FIY	BREAKER \ GAS	FIY 1182 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 191.32	30			\$ 5,739.45
FIY	BREAKER \ GAS	FIY 1482 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 191.32	30			\$ 5,739.45
FIY	BUILDING	FIY BALM-CTL - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	COMM \ FIBER \ PANEL	FIY SOMET JUNGLE MUX TO/FROM ELV & RSC - TRUST	1 year JMUX Maintenance	P&C Craftsman	\$ 210.44	3			\$ 631.31
FIY	METER \ MICROPRO	FIY 185-05 REVENUE METER - TRUST	1 Year Meter Maintenance	P&C Craftsman	\$ 210.44	4			\$ 841.75
FIY	METER \ PANEL	FIY INS-A3F - ROSEVILLE LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	METER \ PANEL	FIY INS-A4F - ELVERTA LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	PANEL	FIY CNT-BRDS - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	REALPROP	FIY SWITCHYARD AREA	No Scheduled Maintenance				Included with Substation Inspection (above)		
FIY	RECORDER \ DFR	FIY DFR 1A - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	RELAY \ ELECMECH	FIY 86BF1 AUX RELAY (CHA3R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2027		
FIY	RELAY \ ELECMECH	FIY 86BF4 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2025		
FIY	RELAY \ ELECMECH	FIY 86BF5 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2025		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF B PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2027		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF A PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2027		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF C PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2027		
FIY	RELAY \ MICROPRO	FIY 87LR1 ROSEVILLE LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44		NEXT DUE 2031		



**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2022</b>									
FIY	RELAY \ MICROPRO	FIY 79/25-E1 ELVERTA LINE RE CL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 79/25-R1 ROSEVILLE LINE R ECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 87LE1 ELVERTA LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-5 1582 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-E1 ELVERTA LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G-R1 ROSEVILLE LINE SET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-4 1482 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF-1 1182 BREAKER FAILURE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 210.44			NEXT DUE 2031	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1181 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1581 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1481 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1483 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1087 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1287 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1281 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1081 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1183 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ GROUND \ MANUAL	FIY 1080 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	SWITCH \ GROUND \ MANUAL	FIY 1280 - TRUST	6 year Switch Maintenance	Electrician	\$ 191.32			NEXT DUE 2027	
FIY	TIMING	FIY TIME - STD SATELLITE CLOCK	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT2 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT1 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2022</b>									
FIY	TRANSFMR \ CT	FIY 185-05-CT3 - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	TRNSDUCR	FIY TD-CAT - TRUST	1 year Transducer Maintenance	P&C Craftsman	\$ 210.44	3			\$ 631.31
							<b>TOTAL FORECAST:</b>		<b>\$ 30,027.96</b>

NOTE:

<sup>1</sup>Rate increases are estimated at 3.1% per year.

<sup>2</sup>Costs do not include emergency or non-planned work activities.

**Exhibit B  
Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2023</b>									
<b>Fiddymont Substation</b>									
FIY	SUBSTATION	FIY SUBSTATION	Substation Inspection (monthly)	Electrician	\$ 197.25	24			\$ 4,733.90
FIY	SUBSTATION	FIY SUBSTATION	Protection and Communication Inspection (Quarterly)	P&C Craftsman	\$ 216.96	8			\$ 1,735.69
FIY	SUBSTATION	FIY SUBSTATION	Infrared Inspection (annual)	Electrician	\$ 197.25	1			\$ 197.25
FIY	SUBSTATION	FIY SUBSTATION	Annual Substation Herbicide	Electrician	\$ 197.25	1	3,090.24	Contracted Application	\$ 3,287.48
FIY	SUBSTATION	ENGINEERING	Engineering Support	Engineer	\$ 216.56	5			\$ 1,082.78
FIY	AUTOMATION \ ANNUNC	FIY ANN-C5F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C4F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ ANNUNC	FIY ANN-C3F - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ COMMPROC	FIY 2020 COMMUNICATIONS PROCESSOR	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ BOUNDARY_METERING	FIY CONTROL AREA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	AUTOMATION \ RTU \ SCADA_DATA	FIY SCADA RTU - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	BREAKER \ GAS	FIY 1582 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 197.25		NEXT DUE 2027		
FIY	BREAKER \ GAS	FIY 1182 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 197.25		NEXT DUE 2027		
FIY	BREAKER \ GAS	FIY 1482 BREAKER - TRUST	5 year / 10 year Maintenance	Electrician	\$ 197.25		NEXT DUE 2027		
FIY	BUILDING	FIY BALM-CTL - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	COMM \ FIBER \ PANEL	FIY SONET JUNGLE MUX TO/FROM ELV & R SC - TRUST	1 year JMUX Maintenance	P&C Craftsman	\$ 216.96	3			\$ 650.88
FIY	METER \ MICROPRO	FIY 185-05 REVENUE METER - TRUST	1 Year Meter Maintenance	P&C Craftsman	\$ 216.96	4			\$ 867.84
FIY	METER \ PANEL	FIY INS-A3F - ROSEVILLE LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	METER \ PANEL	FIY INS-A4F - ELVERTA LINE - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	PANEL	FIY CNT-BRDS - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	REALPROP	FIY SWITCHYARD AREA	No Scheduled Maintenance				Included with Substation Inspection (above)		
FIY	RECORDER \ DFR	FIY DFR 1A - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	RELAY \ ELECMECH	FIY 86BF1 AUX RELAY (CHA3R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2027		
FIY	RELAY \ ELECMECH	FIY 86BF4 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2025		
FIY	RELAY \ ELECMECH	FIY 86BF5 AUX RELAY (CHA5R)	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2025		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF B PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2027		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF A PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2027		
FIY	RELAY \ ELECTRON	FIY 230KV 87BT3 BUS DIFF C PHASE RELAY	6 year / 12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2027		
FIY	RELAY \ MICROPRO	FIY 87LR1 ROSEVILLE LINE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96		NEXT DUE 2031		



**Exhibit B  
Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2023</b>									
FIY	RELAY \ MICROPRO	FIY 79/25- E1 ELVERTA LINE RE CL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 79/25- R1 ROSEVILLE LINE R ECL & SYNC CK RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 87LE1 ELVERTA LI NE SET A RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF- 5 1582 BREAKER FAIL URE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G- E1 ELVERTA LINE SE T B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 21/21G- R1 ROSEVILLE LINE S ET B RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF- 4 1482 BREAKER FAIL URE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	RELAY \ MICROPRO	FIY 50BF- 1 1182 BREAKER FAIL URE RELAY	12 year Relay Maintenance	P&C Craftsman	\$ 216.96			NEXT DUE 2031	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1181 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1581 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1481 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1483 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1087 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1287 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1281 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1081 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ AIRBREAK \ MOTOR	FIY 1183 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ GROUND \ M ANUAL	FIY 1080 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	SWITCH \ GROUND \ M ANUAL	FIY 1280 - TRUST	6 year Switch Maintenance	Electrician	\$ 197.25			NEXT DUE 2027	
FIY	TIMING	FIY TIME - STD SATELLITE CLO CK	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2B-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-C - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY2A-B - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CCVT	FIY VY1A-A - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT2 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	
FIY	TRANSFMR \ CT	FIY 185-05-CT1 - TRUST	No Scheduled Maintenance					NO SCHEDULED MAINTENANCE	

**Exhibit B**  
**Annual Maintenance Cost Estimate**

<b>Customer:</b>	City of Roseville
<b>Contract Number:</b>	04-SNR-00850

Location	Classification	Designation	Activity	Performed By	Rate <sup>1</sup>	Hours	Expense	Expense Comment	Total <sup>2</sup>
<b>FORECAST FOR CALENDAR YEAR 2023</b>									
FIY	TRANSFMR \ CT	FIY 185-05-CT3 - TRUST	No Scheduled Maintenance				NO SCHEDULED MAINTENANCE		
FIY	TRNSDUCR	FIY TD-CAT - TRUST	1 year Transducer Maintenance	P&C Craftsman	\$ 216.96	3			\$ 650.88
							<b>TOTAL FORECAST:</b>		<b>\$ 13,206.70</b>

**NOTE:**

<sup>1</sup>Rate increases are estimated at 3.1% per year.

<sup>2</sup>Costs do not include emergency or non-planned work activities.