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Job #RVA25283-050



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Owner Alexandria Renew Enterprises

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VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/26/2025 Ambient Temperature 80 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker A-1
ASSET Breaker A-1 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738825
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	4.5 T	6.219 T	4.08 T	5.639 T	1.110 T	1.534 T
POLE TO GRN (CLSD)	1.000	1.382	1.353 T	1.870 T	1.916 T	2.648 T	1.321 T	1.826 T
LINE TO LOAD (OPEN)	1.000	1.382	3.351 T	4.631 T	4.90 T	6.772 T	3.629 G	5.015 G

COUNTER READING: BEG. 00116 END 00120

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.9	3.9	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	15	13	18
	20°C	14.5985	12.6520	17.5182

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	31.8	31.9	31.7
CLOSING SPEED (sec)	40.4	40.9	39.3

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh

VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
 ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
 OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314
 DATE 6/26/2025 Ambient Temperature 80 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
 SUBSTATION SS-1 EQUIPMENT ID Breaker A-2
 ASSET Breaker A-2 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738824
 TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
 MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
 INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
 EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
 HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	10 T	13.820 T	2.75 T	3.801 T	2.525 T	3.490 T
POLE TO GRN (CLSD)	1.000	1.382	1.571 T	2.171 T	998 G	1,379.236 G	795 G	1,098.690 G
LINE TO LOAD (OPEN)	1.000	1.382	10 T	13.820 T	10 T	13.820 T	10 T	13.820 T

COUNTER READING: BEG. 00119 END 00122

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.9	3.9	3.9

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	19	18	18
	20°C	18.4914	17.5182	17.5182

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	33.2	33.5	33.5
CLOSING SPEED (sec)	43.3	41.5	41.5

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
 DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/25/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker A-3
ASSET Breaker A-3 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738821
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.827 T	2.525 T	1.65 T	2.280 T	1.713 T	2.367 T
POLE TO GRN (CLSD)	1.000	1.382	1.15 T	1.589 T	1.42 T	1.962 T	1.35 T	1.866 T
LINE TO LOAD (OPEN)	1.000	1.382	1.3 T	1.797 T	1.70 T	2.349 T	1.65 T	2.280 T

COUNTER READING: BEG. 00179 END 00181

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.7	3.9	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	20	21	20
	20°C	19.4646	20.4379	19.4646

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.2	31.9	32.3
CLOSING SPEED (sec)	40.3	43.2	40.7

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh

VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
 ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
 OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314
 DATE 6/24/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
 SUBSTATION SS-1 EQUIPMENT ID Breaker A-4
 ASSET Breaker A-4 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738820
 TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
 MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
 INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
 EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
 HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	2.372 T	3.278 T	1.907 T	2.635 T	1.834 T	2.535 T
POLE TO GRN (CLSD)	1.000	1.382	499 G	689.618 G	3.100 T	4.284 T	535 G	739.370 G
LINE TO LOAD (OPEN)	1.000	1.382	2.983 T	4.123 T	1.40 T	1.935 T	3.422 T	4.729 T

COUNTER READING: BEG. 00137 END 00140

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.9	3.9	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	20	22	21
	20°C	19.4646	21.4111	20.4379

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.4	32.1	31.9
CLOSING SPEED (sec)	43.5	43.3	41.2

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
 DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/23/2025 Ambient Temperature 70 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker B-1
ASSET Breaker B-1 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738835
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	C
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	C
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 21 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.05
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.050	1.073 T	1.127 T	804 G	844.200 G	1.714 T	1.800 T
POLE TO GRN (CLSD)	1.000	1.050	637 G	668.850 G	121.2 G	127.260 G	201.3 G	211.365 G
LINE TO LOAD (OPEN)	1.000	1.050	586 G	615.300 G	361 G	379.050 G	1.786 T	1.875 T

COUNTER READING: BEG. 00123 END 00126

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	2.8	2.9	2.9

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	22	23	20
	20°C	21.9139	22.9100	19.9217

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.3	32.3	31.8
CLOSING SPEED (sec)	39.8	40.4	40.1

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: wdc0026, wdc0011, wdc0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/23/2025 Ambient Temperature 70 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker B-2
ASSET Breaker B-2 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738834
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	C
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 21 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.05
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.050	332.2 G	348.810 G	102.2 G	107.310 G	322.7 G	338.835 G
POLE TO GRN (CLSD)	1.000	1.050	225.9 G	237.195 G	30.90 G	32.445 G	51.3 G	53.865 G
LINE TO LOAD (OPEN)	1.000	1.050	385.7 G	404.985 G	698 G	732.900 G	553 G	580.650 G

COUNTER READING: BEG. 0088 END 0097

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	2.9	2.9	2.9

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	24	23	23
	20°C	23.9061	22.9100	22.9100

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	39.0	39.3	39.7
CLOSING SPEED (sec)	32.1	31.6	31.6

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: wdc0026, wdc0011, wdc0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/24/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker B-3
ASSET Breaker B-3 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1781599
TYPE VR MODEL NO. N/A DATE MANUFACTURED 8/14
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	C
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	9.45 T	13.060 T	8.02 T	11.084 T	5.78 T	7.988 T
POLE TO GRN (CLSD)	1.000	1.382	1.158 T	1.600 T	4.58 T	6.330 T	2.669 T	3.689 T
LINE TO LOAD (OPEN)	1.000	1.382	2.69 T	3.718 T	4.09 T	5.652 T	3.30 T	4.561 T

COUNTER READING: BEG. 000060 END 000062

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.6	3.8	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	24	24	25
	20°C	23.3575	23.3575	24.3308

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	33.8	33.1	33.7
CLOSING SPEED (sec)	39.3	40.1	39.3

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh

VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
 ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
 OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314
 DATE 6/24/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
 SUBSTATION SS-1 EQUIPMENT ID Breaker B-4
 ASSET Breaker B-4 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738831
 TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
 MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
 INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	C
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
 EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
 HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.418 T	1.960 T	2.359 T	3.260 T	1.545 T	2.135 T
POLE TO GRN (CLSD)	1.000	1.382	868 G	1,199.576 G	1.305 T	1.804 T	295.8 G	408.796 G
LINE TO LOAD (OPEN)	1.000	1.382	1.925 T	2.660 T	3.925 T	5.424 T	1.023 T	1.414 T

COUNTER READING: BEG. 00114 END 00116

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.9	3.8	3.9

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	22	21	22
	20°C	21.4111	20.4379	21.4111

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.6	31.7	31.8
CLOSING SPEED (sec)	41.3	42.7	41.8

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
 DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/23/2025 Ambient Temperature 70 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-1 EQUIPMENT ID Breaker TIE
ASSET Breaker TIE ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738826
TYPE VR MODEL NO. _____ DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.160 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	C
INSULATING MEMBERS	☒	Acceptable	C
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	C
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 21 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.05
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.050	80.5 G	84.525 G	69.0 G	72.450 G	159.1 G	167.055 G
POLE TO GRN (CLSD)	1.000	1.050	44.4 G	46.620 G	33.2 G	34.860 G	64.9 G	68.145 G
LINE TO LOAD (OPEN)	1.000	1.050	4.78 G	5.019 G	2.14 G	2.247 G	5.11 G	5.366 G

COUNTER READING: BEG. 00139 END 00144

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.6	3.6	3.6

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	20	20	21
	20°C	19.9217	19.9217	20.9178

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	30.0	29.6	30.0
CLOSING SPEED (sec)	41.9	41.0	41.1

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: wdc0026, wdc0011, wdc0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/26/2025 Ambient Temperature 80 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-2 EQUIPMENT ID Breaker A-1
ASSET Breaker A-1 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738832
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.93 T	2.667 T	2.59 T	3.579 T	1.850 T	2.557 T
POLE TO GRN (CLSD)	1.000	1.382	911 G	1,259.002 G	1.392 T	1.924 T	2.967 G	4.100 G
LINE TO LOAD (OPEN)	1.000	1.382	3.21 T	4.436 T	3.33 T	4.602 T	3.37 T	4.657 T

COUNTER READING: BEG. 00137 END 00142

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.9	3.9	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	18	17	19
	20°C	17.5182	16.5449	18.4914

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	31.6	31.0	30.4
CLOSING SPEED (sec)	40.6	41.0	41.3

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh

VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
 ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
 OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314
 DATE 6/25/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
 SUBSTATION SS-2 EQUIPMENT ID Breaker A-4
 ASSET Breaker A-4 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738827
 TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
 MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
 INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
 EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
 HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.96 T	2.709 T	1.87 T	2.584 T	1.36 T	1.880 T
POLE TO GRN (CLSD)	1.000	1.382	1.22 T	1.686 T	1.69 T	2.336 T	1.16 T	1.603 T
LINE TO LOAD (OPEN)	1.000	1.382	1.739 T	2.403 T	1.835 T	2.536 T	1.704 T	2.355 T

COUNTER READING: BEG. 00130 END 00134

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.8	3.8	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	20	22	20
	20°C	19.4646	21.4111	19.4646

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	42.1	41.8	41.5
CLOSING SPEED (sec)	38.5	38.6	38.8

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
 DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/25/2025 Ambient Temperature 80 °F HUMIDITY 60 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-2 EQUIPMENT ID Breaker B-1
ASSET Breaker B-1 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738836
TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.92 T	2.653 T	1.542 T	2.131 T	2.096 T	2.897 T
POLE TO GRN (CLSD)	1.000	1.382	1.827 T	2.525 T	1.37 T	1.893 T	1.55 T	2.142 T
LINE TO LOAD (OPEN)	1.000	1.382	1.872 T	2.587 T	2.135 T	2.951 T	2.387 T	3.299 T

COUNTER READING: BEG. 00124 END 00126

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.5	3.8	3.8

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	22	22	21
	20°C	21.4111	21.4111	20.4379

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.8	31.8	31.8
CLOSING SPEED (sec)	42.4	42.0	41.5

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh

VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
 ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
 OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314
 DATE 6/26/2025 Ambient Temperature 80 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
 SUBSTATION SS-2 EQUIPMENT ID Breaker B-3
 ASSET Breaker B-3 ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738752
 TYPE VR MODEL NO. N/A DATE MANUFACTURED 9/00
 MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
 INTERRUPTING CAPACITY 29 kA @ 4.76 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
 EQUIPMENT TEMPERATURE 27 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.38200001716614
 HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.382	1.75 T	2.419 T	2.655 T	3.669 T	2.934 T	4.055 T
POLE TO GRN (CLSD)	1.000	1.382	1.273 T	1.759 T	1.763 T	2.436 T	1.081 T	1.494 T
LINE TO LOAD (OPEN)	1.000	1.382	2.248 T	3.107 T	3.335 T	4.609 T	3.450 T	4.768 T

COUNTER READING: BEG. 00115 END 00119

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.8	3.9	3.9

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	20	18	18
	20°C	19.4646	17.5182	17.5182

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.2	31.1	31.8
CLOSING SPEED (sec)	42.5	42.6	42.2

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
 DEFICIENCIES: _____

TEST EQUIPMENT USED: WDC0026, WDC0011, WDC0003

TESTED BY: B. Baugh



VACUUM CIRCUIT BREAKER TEST



CUSTOMER Alexandria Renew Enterprises PAGE _____
ADDRESS 1500 EISENHOWER AVE; ALEXANDRIA VA US 22314 JOB # RVA25283-050
OWNER Alexandria Renew Enterprises; 1500 EISENHOWER AVE; ALEXANDRIA VA USA 22314

DATE 6/23/2025 Ambient Temperature 70 °F HUMIDITY 50 % SITE LOCATION 1800 LIMERICK ST, ALEXANDRIA, VA
SUBSTATION SS-2 EQUIPMENT ID Breaker TIE
ASSET Breaker TIE ASSESSMENT OF EQUIPMENT PASSED ALL NETA MTS SPECIFICATIONS

MANUFACTURER Square D SERIAL NUMBER 1738838
TYPE VR MODEL NO. _____ DATE MANUFACTURED 9/00
MAXIMUM VOLTAGE 4.76 kV AMPACITY 1200 AMPS OPERATING VOLTAGE 4.3 kV
INTERRUPTING CAPACITY 29 kA @ 4.160 kV

Description	INSPECTED	CONDITION	CLEAN/LUBE
OVERALL CLEANLINESS	☒	Acceptable	N/A
INSULATING MEMBERS	☒	Acceptable	N/A
MECHANICAL CONNECTIONS	☒	Acceptable	N/A
STRUCTURAL MEMBERS	☒	Acceptable	N/A
CUBICLE	☒	Acceptable	N/A
RACKING DEVICES	☒	Acceptable	N/A
SHUTTER	☒	Acceptable	N/A

Description	INSPECTED	CONDITION	CLEAN/LUBE
CONTACT FINGERS	☒	Acceptable	C/L
VACUUM BOTTLE	☒	Acceptable	C
CONTACT EROSION INDICATOR	☒	Acceptable	N/A
OPERATING MECHANISM	☒	Acceptable	N/A
CONTACT SEQUENCE	☒	Acceptable	N/A
GROUND CONNECTION	☒	Acceptable	C
AUXILIARY DEVICES	☒	Acceptable	C

INSULATION TEST VOLTAGE 2.5 KVDC TEST VOLTAGE MULTIPLIER, K1 = 1 K2 = (K1) (TCF)
EQUIPMENT TEMPERATURE 21 °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF 1.05
HIGH POTENTIAL TEST VOLTAGE 11.4 kVAC

INSULATION RESISTANCE	RANGE MULTIPLIER	K2	POLE 1 OHMS (P1-P2)		POLE 2 OHMS (P2-P3)		POLE 3 OHMS (P1-P3)	
			READING	20°C	READING	20°C	READING	20°C
POLE TO POLE (CLSD)	1.000	1.050	428 G	449.400 G	906 G	951.300 G	847 G	889.350 G
POLE TO GRN (CLSD)	1.000	1.050	233 G	244.650 G	240 G	252.000 G	866 G	909.300 G
LINE TO LOAD (OPEN)	1.000	1.050	48.6 G	51.030 G	132 G	138.600 G	94.9 G	99.645 G

COUNTER READING: BEG. 00157 END 00159

	POLE 1	POLE 2	POLE 3
VAC BOTTLE INT. mA	3.6	3.9	3.7

CONTACT MEASUREMENTS		POLE 1	POLE 2	POLE 3
CONTACT RESISTANCE MICRO-OHMS	RDG.	24	23	23
	20°C	23.9061	22.9100	22.9100

	POLE 1	POLE 2	POLE 3
OPENING SPEED (sec)	32.2	32.0	31.3
CLOSING SPEED (sec)	41.0	41.6	41.8

ASSESSMENT OF EQUIPMENT: PASSED ALL NETA MTS SPECIFICATIONS

COMMENTS: _____
DEFICIENCIES: _____

TEST EQUIPMENT USED: wdc0026, wdc0011, wdc0003

TESTED BY: B. Baugh

FEEDER BREAKER A1 A SWGR-SS-1



Device	FEEDER BREAKER A1 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A1 A			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 09:55			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 09:55			Comment	
Last tested	2025-Jun-26 09:55			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 09:53			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 09:53	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 09:54			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 09:54	2.2877 s	5.00 %	5.00 %	2.3043 s	0.72 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3710 s	-0.14 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9836 s	-0.07 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 09:54		Comment				
Last tested	2025-Jun-26 09:54		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 09:54	60.000 A	5.00 %	5.00 %	59.840 A	-0.27 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-26 09:55		Comment			
Last tested	2025-Jun-26 09:55		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 09:55	0.0000 s	0.1000 s	0.0000 s	0.0663 s	0.0663 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 B SWGR-SS-1



Device	FEEDER BREAKER A1 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A1 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 09:59	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 09:59			Comment	
Last tested	2025-Jun-26 09:59			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 09:57			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 09:57	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 09:57			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 09:57	2.2877 s	5.00 %	5.00 %	2.2941 s	0.28 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3732 s	0.02 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9823 s	-0.20 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 09:54			Comment			
Last tested	2025-Jun-26 09:58			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 09:58	60.000 A	5.00 %	5.00 %	60.440 A	0.73 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 09:59		Comment		
Last tested	2025-Jun-26 09:59		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 09:59	0.0000 s	0.1000 s	0.0000 s	0.0876 s	0.0876 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 C SWGR-SS-1



Device	FEEDER BREAKER A1 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A1 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 10:04			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 10:03			Comment	
Last tested	2025-Jun-26 10:04			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 10:01			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:01	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 10:01			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 10:01	2.2877 s	5.00 %	5.00 %	2.3289 s	1.80 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3897 s	1.23 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9934 s	0.93 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03			Comment			
Last tested	2025-Jun-26 10:03			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:03	60.000 A	5.00 %	5.00 %	59.960 A	-0.07 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 10:01		Comment		
Last tested	2025-Jun-26 10:04		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 10:04	0.0000 s	0.1000 s	0.0000 s	0.0669 s	0.0669 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 N SWGR-SS-1



Device	FEEDER BREAKER A1 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A1 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 10:12	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 10:12			Comment	
Last tested	2025-Jun-26 10:12			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 10:07			Comment	
Last tested	2025-Jun-26 10:07			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:07	5.000 A	5.00 %	5.00 %	5.100 A	2.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 10:07			Comment			
Last tested	2025-Jun-26 10:07			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-26 10:07	1.8818 s	5.00 %	5.00 %	1.9123 s	1.62 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1441 s	1.62 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7933 s	1.54 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03		Comment				
Last tested	2025-Jun-26 10:08		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:08	60.000 A	5.00 %	5.00 %	60.070 A	0.12 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 10:06		Comment		
Last tested	2025-Jun-26 10:09		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 10:09	0.0000 s	0.1000 s	0.0000 s	0.0675 s	0.0675 s	Pass

Test	COMMENT			Status	Pass
Description	Document Step				
Last modified	2025-Jun-26 10:12	Comment			
Last tested	2025-Jun-26 10:12	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device	Firmware	Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-26 10:12						Pass

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 A SWGR-SS-2



Device	FEEDER BREAKER A1 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A1 A		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-26 12:07		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:49			Comment	
Last tested	2025-Jun-26 12:07			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 12:05			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:05	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 12:05			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 12:05	2.2877 s	5.00 %	5.00 %	2.3041 s	0.72 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3743 s	0.10 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9866 s	0.23 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 12:06		Comment				
Last tested	2025-Jun-26 12:06		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:06	60.000 A	5.00 %	5.00 %	59.600 A	-0.67 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:49		Comment		
Last tested	2025-Jun-26 12:07		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 12:07	0.0000 s	0.1000 s	0.0000 s	0.0630 s	0.0630 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 B SWGR-SS-2



Device	FEEDER BREAKER A1 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A1 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 12:11	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:48			Comment	
Last tested	2025-Jun-26 12:11			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 12:10			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:10	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 12:10			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 12:10	2.2877 s	5.00 %	5.00 %	2.3103 s	0.99 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3759 s	0.22 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9877 s	0.35 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 12:06		Comment				
Last tested	2025-Jun-26 12:11		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:11	60.000 A	5.00 %	5.00 %	59.630 A	-0.62 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:48		Comment		
Last tested	2025-Jun-26 12:11		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 12:11	0.0000 s	0.1000 s	0.0000 s	0.0630 s	0.0630 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 C SWGR-SS-2



Device	FEEDER BREAKER A1 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A1 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 12:15			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:48			Comment	
Last tested	2025-Jun-26 12:15			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 09:54			Comment	
Last tested	2025-Jun-26 12:13			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:13	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 12:14			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 12:14	2.2877 s	5.00 %	5.00 %	2.3303 s	1.86 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3820 s	0.67 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9937 s	0.96 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 12:06		Comment				
Last tested	2025-Jun-26 12:14		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:14	60.000 A	5.00 %	5.00 %	59.970 A	-0.05 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-30 08:48		Comment			
Last tested	2025-Jun-26 12:15		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 12:15	0.0000 s	0.1000 s	0.0000 s	0.0680 s	0.0680 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A1 N SWGR-SS-2



Device	FEEDER BREAKER A1 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A1 N			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 12:21			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:46			Comment	
Last tested	2025-Jun-26 12:21			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 12:17			Comment	
Last tested	2025-Jun-26 12:17			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:17	5.000 A	5.00 %	5.00 %	5.100 A	2.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 12:18			Comment			
Last tested	2025-Jun-26 12:18			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-26 12:18	1.8818 s	5.00 %	5.00 %	1.9370 s	2.93 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1494 s	2.09 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7956 s	1.84 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 12:06		Comment				
Last tested	2025-Jun-26 12:19		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 12:19	60.000 A	5.00 %	5.00 %	59.720 A	-0.47 %	Pass

Test	50 TIMING		Status		Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 12:17		Comment		
Last tested	2025-Jun-26 12:19		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 12:19	0.0000 s	0.1000 s	0.0000 s	0.0667 s	0.0667 s	Pass

Test	COMMENT			Status	Pass
Description	Document Step				
Last modified	2025-Jun-30 08:46	Comment			
Last tested	2025-Jun-26 12:21	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-26 12:21						Pass

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

List of Instruments Used	
Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A2 A SWGR-SS-1



Device	FEEDER BREAKER A2 A		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A2 A	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 08:35	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 08:34			Comment	
Last tested	2025-Jun-26 08:35			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 08:32			Comment	
Last tested	2025-Jun-26 08:32			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:32	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 08:32			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 08:32	1.7605 s	5.00 %	5.00 %	1.7824 s	1.25 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0641 s	0.48 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7635 s	0.31 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 08:34		Comment				
Last tested	2025-Jun-26 08:34		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:34	40.000 A	5.00 %	5.00 %	39.020 A	-2.45 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 08:31		Comment		
Last tested	2025-Jun-26 08:35		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 08:35	0.0000 s	0.1000 s	0.0000 s	0.0539 s	0.0539 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A2 B SWGR-SS-1



Device	FEEDER BREAKER A2 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A2 B		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-26 08:40		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 08:38		Comment		
Last tested	2025-Jun-26 08:40		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 08:32		Comment		
Last tested	2025-Jun-26 08:38		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:38	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 08:38			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 08:38	1.7605 s	5.00 %	5.00 %	1.7917 s	1.77 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0626 s	0.33 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7626 s	0.19 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 08:34		Comment				
Last tested	2025-Jun-26 08:39		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:39	40.000 A	5.00 %	5.00 %	40.260 A	0.65 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 08:38		Comment		
Last tested	2025-Jun-26 08:40		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 08:40	0.0000 s	0.1000 s	0.0000 s	0.0621 s	0.0621 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A2 C SWGR-SS-1



Device	FEEDER BREAKER A2 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A2 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 08:44			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 08:43			Comment	
Last tested	2025-Jun-26 08:44			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 08:32			Comment	
Last tested	2025-Jun-26 08:42			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:42	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 08:43			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 08:43	1.7605 s	5.00 %	5.00 %	1.7717 s	0.64 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0551 s	-0.37 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7593 s	-0.24 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 08:43		Comment				
Last tested	2025-Jun-26 08:43		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:43	40.000 A	5.00 %	5.00 %	40.230 A	0.57 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 08:41		Comment		
Last tested	2025-Jun-26 08:44		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 08:44	0.0000 s	0.1000 s	0.0000 s	0.0670 s	0.0670 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A2 N SWGR-SS-1



Device	FEEDER BREAKER A2 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A2 N		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-26 08:48		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-26 08:47			Comment	
Last tested	2025-Jun-26 08:48			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 08:32			Comment	
Last tested	2025-Jun-26 08:47			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:47	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-26 08:47			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 08:47	1.7605 s	5.00 %	5.00 %	1.7828 s	1.27 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0647 s	0.53 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7641 s	0.39 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 08:43		Comment				
Last tested	2025-Jun-26 08:48		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 08:48	40.000 A	5.00 %	5.00 %	40.140 A	0.35 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-26 08:47		Comment			
Last tested	2025-Jun-26 08:48		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 08:48	0.0000 s	0.1000 s	0.0000 s	0.0624 s	0.0624 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A3 A SWGR-SS-1



Device	FEEDER BREAKER A3 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A3 A			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 07:43			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-25 07:43			Comment	
Last tested	2025-Jun-25 07:43			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 07:41			Comment	
Last tested	2025-Jun-25 07:40			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:40	2.500 A	5.00 %	5.00 %	2.600 A	4.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-25 07:41			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 07:41	8.0586 s	5.00 %	5.00 %	8.2699 s	2.62 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.4098 s	1.78 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.8116 s	1.70 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 07:42		Comment				
Last tested	2025-Jun-25 07:42		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:42	60.000 A	5.00 %	5.00 %	60.290 A	0.48 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-25 07:43		Comment		
Last tested	2025-Jun-25 07:43		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 07:43	0.0000 s	0.1000 s	0.0000 s	0.1000 s	0.1000 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A3 B SWGR-SS-1



Device	FEEDER BREAKER A3 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A3 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-25 07:52	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-25 07:50			Comment	
Last tested	2025-Jun-25 07:52			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 07:41			Comment	
Last tested	2025-Jun-25 07:51			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:51	2.500 A	5.00 %	5.00 %	2.600 A	4.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-25 07:51			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 07:51	8.0586 s	5.00 %	5.00 %	8.1855 s	1.57 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.3888 s	1.29 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.8092 s	1.61 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 07:42		Comment				
Last tested	2025-Jun-25 07:52		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:52	60.000 A	5.00 %	5.00 %	60.080 A	0.13 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-25 07:48		Comment		
Last tested	2025-Jun-25 07:52		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 07:52	0.0000 s	0.1000 s	0.0000 s	0.0679 s	0.0679 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A3 C SWGR-SS-1



Device	FEEDER BREAKER A3 C		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus			Serial Number	N/A
Manufacturer	BASLER		Special ID	
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION
Function	PROTECTION		Company	
Circuit	FEEDER BREAKER A3 C		Division	
Firmware Version / Date			Asset Tag	RVA25283
Tested by	w.gardner		Reg. Category	Calibration
Last tested	2025-Jun-25 07:56		Next test due	
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-25 07:56			Comment	
Last tested	2025-Jun-25 07:56			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 07:41			Comment	
Last tested	2025-Jun-25 07:55			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:55	2.500 A	5.00 %	5.00 %	2.600 A	4.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-25 07:55			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 07:55	8.0586 s	5.00 %	5.00 %	8.2170 s	1.97 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.3734 s	0.94 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.8002 s	1.28 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 07:56		Comment				
Last tested	2025-Jun-25 07:56		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:56	60.000 A	5.00 %	5.00 %	59.690 A	-0.52 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-25 07:54		Comment		
Last tested	2025-Jun-25 07:56		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 07:56	0.0000 s	0.1000 s	0.0000 s	0.0671 s	0.0671 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A3 N SWGR-SS-1



Device	FEEDER BREAKER A3 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A3 N		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-25 08:01		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-25 08:03			Comment	
Last tested	2025-Jun-25 08:01			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 08:00			Comment	
Last tested	2025-Jun-25 07:59			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 07:59	5.000 A	5.00 %	5.00 %	5.100 A	2.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 08:00			Comment			
Last tested	2025-Jun-25 08:00			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-25 08:00	0.5428 s	5.00 %	5.00 %	0.5508 s	1.48 %	Pass
2.500 * Tap		0.4170 s	5.00 %	5.00 %	0.4166 s	-0.11 %	Pass
3.000 * Tap		0.3527 s	5.00 %	5.00 %	0.3499 s	-0.80 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 08:01		Comment				
Last tested	2025-Jun-25 08:01		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 08:01	60.000 A	5.00 %	5.00 %	60.240 A	0.40 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-25 07:59		Comment		
Last tested	2025-Jun-25 08:01		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 08:01	0.0000 s	0.1000 s	0.0000 s	0.0751 s	0.0751 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 A SWGR-SS-1



Device	FEEDER BREAKER A4 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A4 A		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 12:04		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 12:04			Comment	
Last tested	2025-Jun-24 12:04			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 12:03			Comment	
Last tested	2025-Jun-24 12:02			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:02	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 12:03			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 12:03	5.6773 s	5.00 %	5.00 %	5.7538 s	1.35 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4021 s	0.35 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4385 s	0.82 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 12:04		Comment				
Last tested	2025-Jun-24 12:04		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:04	30.000 A	5.00 %	5.00 %	30.160 A	0.53 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-24 12:04		Comment			
Last tested	2025-Jun-24 12:04		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 12:04	0.0000 s	0.1000 s	0.0000 s	0.0625 s	0.0625 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 B SWGR-SS-1



Device	FEEDER BREAKER A4 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A4 B		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 12:09		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 12:08		Comment		
Last tested	2025-Jun-24 12:09		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 12:03		Comment		
Last tested	2025-Jun-24 12:08		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:08	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 12:08			Tested by w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 12:08	5.6773 s	5.00 %	5.00 %	5.7608 s	1.47 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4261 s	1.06 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4423 s	0.97 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 12:04		Comment				
Last tested	2025-Jun-24 12:09		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:09	30.000 A	5.00 %	5.00 %	30.220 A	0.73 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-24 12:08		Comment			
Last tested	2025-Jun-24 12:09		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 12:09	0.0000 s	0.1000 s	0.0000 s	0.0594 s	0.0594 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 C SWGR-SS-1



Device	FEEDER BREAKER A4 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER A4 C		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 12:13		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 12:11		Comment		
Last tested	2025-Jun-24 12:13		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 12:03		Comment		
Last tested	2025-Jun-24 12:12		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:12	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 12:12			Tested by w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 12:12	5.6773 s	5.00 %	5.00 %	5.7572 s	1.41 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4098 s	0.58 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4376 s	0.78 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 12:04		Comment				
Last tested	2025-Jun-24 12:13		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:13	30.000 A	5.00 %	5.00 %	30.050 A	0.17 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 12:11		Comment		
Last tested	2025-Jun-24 12:13		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 12:13	0.0000 s	0.1000 s	0.0000 s	0.0626 s	0.0626 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 N SWGR-SS-1



Device	FEEDER BREAKER A4 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A4 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-24 12:17	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 12:15			Comment	
Last tested	2025-Jun-24 12:17			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 12:03			Comment	
Last tested	2025-Jun-24 12:16			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:16	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 12:16			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 12:16	5.6773 s	5.00 %	5.00 %	5.7761 s	1.74 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4137 s	0.69 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4327 s	0.58 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 12:04		Comment				
Last tested	2025-Jun-24 12:17		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 12:17	30.000 A	5.00 %	5.00 %	29.980 A	-0.07 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 12:15		Comment		
Last tested	2025-Jun-24 12:17		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 12:17	0.0000 s	0.1000 s	0.0000 s	0.0628 s	0.0628 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 A SWGR-SS-2



Device	FEEDER BREAKER A4 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A4 A			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 11:23			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:34			Comment	
Last tested	2025-Jun-25 11:23			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 11:21			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:21	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-25 11:22			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 11:22	2.2877 s	5.00 %	5.00 %	2.3169 s	1.28 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3786 s	0.42 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9903 s	0.61 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 11:22		Comment				
Last tested	2025-Jun-25 11:22		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:22	40.000 A	5.00 %	5.00 %	40.140 A	0.35 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:34		Comment		
Last tested	2025-Jun-25 11:23		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 11:23	0.0000 s	0.1000 s	0.0000 s	0.0632 s	0.0632 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 B SWGR-SS-2



Device	FEEDER BREAKER A4 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A4 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-25 11:27	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:33			Comment	
Last tested	2025-Jun-25 11:27			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 11:25			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:25	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-25 11:26			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 11:26	2.2877 s	5.00 %	5.00 %	2.3087 s	0.92 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3780 s	0.37 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9895 s	0.53 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 11:22		Comment				
Last tested	2025-Jun-25 11:26		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:26	40.000 A	5.00 %	5.00 %	40.180 A	0.45 %	Pass

Test	50 TIMING		Status	Pass
Description	Operating Time, Current (TA)			
Last modified	2025-Jun-30 08:33	Comment		
Last tested	2025-Jun-25 11:27	Tested by	w.gardner	
Instrument SN	071908940			
Calibrated on	2025-MAR-5	Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 11:27	0.0000 s	0.1000 s	0.0000 s	0.0709 s	0.0709 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 C SWGR-SS-2



Device	FEEDER BREAKER A4 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER A4 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 11:32			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:33			Comment	
Last tested	2025-Jun-25 11:32			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 11:31			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:31	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:22			Comment			
Last tested	2025-Jun-25 11:31			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 11:31	2.2877 s	5.00 %	5.00 %	2.3095 s	0.95 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3814 s	0.62 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9890 s	0.48 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 11:22		Comment				
Last tested	2025-Jun-25 11:32		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:32	40.000 A	5.00 %	5.00 %	39.860 A	-0.35 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:33		Comment		
Last tested	2025-Jun-25 11:32		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 11:32	0.0000 s	0.1000 s	0.0000 s	0.0713 s	0.0713 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER A4 N SWGR-SS-2



Device	FEEDER BREAKER A4 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER A4 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-25 11:37	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:32			Comment	
Last tested	2025-Jun-25 11:37			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 11:35			Comment	
Last tested	2025-Jun-25 11:35			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:35	5.000 A	5.00 %	5.00 %	5.100 A	2.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 11:35			Comment			
Last tested	2025-Jun-25 11:35			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-25 11:35	1.8818 s	5.00 %	5.00 %	1.8812 s	-0.03 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1280 s	0.19 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7823 s	0.14 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 11:22		Comment				
Last tested	2025-Jun-25 11:36		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 11:36	40.000 A	5.00 %	5.00 %	39.970 A	-0.08 %	Pass

Test	50 TIMING		Status		Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:32		Comment		
Last tested	2025-Jun-25 11:37		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 11:37	0.0000 s	0.1000 s	0.0000 s	0.0621 s	0.0621 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 A SWGR-SS-1



Device	FEEDER BREAKER B1 A		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B1 A	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 09:22	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:21			Comment	
Last tested	2025-Jun-23 09:22			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:19			Comment	
Last tested	2025-Jun-23 09:19			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:19	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:21			Comment			
Last tested	2025-Jun-23 09:20			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 09:20	2.2877 s	5.00 %	5.00 %	2.3208 s	1.45 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3814 s	0.62 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9933 s	0.92 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:33		Comment				
Last tested	2025-Jun-23 09:22		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:22	60.000 A	5.00 %	5.00 %	60.040 A	0.07 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 08:36		Comment		
Last tested	2025-Jun-23 09:22		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:22	0.0000 s	0.1000 s	0.0000 s	0.0756 s	0.0756 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 B SWGR-SS-1



Device	FEEDER BREAKER B1 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B1 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 09:28	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:26			Comment	
Last tested	2025-Jun-23 09:28			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:19			Comment	
Last tested	2025-Jun-23 09:27			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:27	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:21			Comment			
Last tested	2025-Jun-23 09:27			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 09:27	2.2877 s	5.00 %	5.00 %	2.3196 s	1.39 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3791 s	0.45 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9864 s	0.21 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:33		Comment				
Last tested	2025-Jun-23 09:28		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:28	60.000 A	5.00 %	5.00 %	60.340 A	0.57 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 09:26		Comment		
Last tested	2025-Jun-23 09:28		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:28	0.0000 s	0.1000 s	0.0000 s	0.0746 s	0.0746 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 C SWGR-SS-1



Device	FEEDER BREAKER B1 C		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B1 C	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 09:33	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:29			Comment	
Last tested	2025-Jun-23 09:33			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:19			Comment	
Last tested	2025-Jun-23 09:32			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:32	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:21			Comment			
Last tested	2025-Jun-23 09:32			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 09:32	2.2877 s	5.00 %	5.00 %	2.3084 s	0.90 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3792 s	0.46 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9875 s	0.33 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:33		Comment				
Last tested	2025-Jun-23 09:33		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:33	60.000 A	5.00 %	5.00 %	59.710 A	-0.48 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 09:29		Comment		
Last tested	2025-Jun-23 09:33		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:33	0.0000 s	0.1000 s	0.0000 s	0.0627 s	0.0627 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 N SWGR-SS-1



Device	FEEDER BREAKER B1 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B1 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 12:02	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 12:02			Comment	
Last tested	2025-Jun-23 12:02			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:36			Comment	
Last tested	2025-Jun-23 09:36			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:36	5.000 A	5.00 %	5.00 %	5.100 A	2.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:37			Comment			
Last tested	2025-Jun-23 09:37			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-23 09:37	1.8818 s	5.00 %	5.00 %	1.9398 s	3.08 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1559 s	2.67 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7975 s	2.08 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:33		Comment				
Last tested	2025-Jun-23 09:41		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:41	60.000 A	5.00 %	5.00 %	59.770 A	-0.38 %	Pass

Test	50 TIMING		Status		Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 09:34		Comment		
Last tested	2025-Jun-23 09:42		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:42	0.0000 s	0.1000 s	0.0000 s	0.0715 s	0.0715 s	Pass

Test	COMMENT			Status	Pass
Description	Document Step				
Last modified	2025-Jun-23 12:02	Comment			
Last tested	2025-Jun-23 12:02	Tested by	w.gardner		
Instrument SN	n/a				
Calibrated on	n/a	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 12:02						Pass

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

FEEDER BREAKER B1 A SWGR-SS-2



Device	FEEDER BREAKER B1 A		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B1 A	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-25 09:05	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:31			Comment	
Last tested	2025-Jun-25 09:05			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 09:01			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:01	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 09:03			Comment			
Last tested	2025-Jun-25 09:03			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 09:03	2.2877 s	5.00 %	5.00 %	2.3304 s	1.87 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3841 s	0.82 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9919 s	0.77 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 09:04			Comment			
Last tested	2025-Jun-25 09:04			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:04	40.000 A	5.00 %	5.00 %	40.320 A	0.80 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:31		Comment		
Last tested	2025-Jun-25 09:05		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 09:05	0.0000 s	0.1000 s	0.0000 s	0.0836 s	0.0836 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 B SWGR-SS-2



Device	FEEDER BREAKER B1 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B1 B			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 09:15			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:28			Comment	
Last tested	2025-Jun-25 09:15			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 09:11			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:11	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 09:03			Comment			
Last tested	2025-Jun-25 09:11			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 09:11	2.2877 s	5.00 %	5.00 %	2.3183 s	1.34 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3763 s	0.25 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9884 s	0.42 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 09:15		Comment				
Last tested	2025-Jun-25 09:15		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:15	40.000 A	5.00 %	5.00 %	39.700 A	-0.75 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:28	Comment			
Last tested	2025-Jun-25 09:15	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 09:15	0.0000 s	0.1000 s	0.0000 s	0.0708 s	0.0708 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 C SWGR-SS-2



Device	FEEDER BREAKER B1 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B1 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 09:24			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:28			Comment	
Last tested	2025-Jun-25 09:24			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 09:23			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:23	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 09:03			Comment			
Last tested	2025-Jun-25 09:23			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-25 09:23	2.2877 s	5.00 %	5.00 %	2.3124 s	1.08 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3720 s	-0.06 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9849 s	0.06 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 09:24		Comment				
Last tested	2025-Jun-25 09:24		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:24	40.000 A	5.00 %	5.00 %	40.000 A	0.00 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:28		Comment		
Last tested	2025-Jun-25 09:24		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 09:24	0.0000 s	0.1000 s	0.0000 s	0.0851 s	0.0851 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B1 N SWGR-SS-2



Device	FEEDER BREAKER B1 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B1 N			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-25 09:30			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:27			Comment	
Last tested	2025-Jun-25 09:30			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-25 09:02			Comment	
Last tested	2025-Jun-25 09:28			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:28	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-25 09:28			Comment			
Last tested	2025-Jun-25 09:28			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-25 09:28	3.7357 s	5.00 %	5.00 %	3.8117 s	2.04 %	Pass
2.500 * Tap		2.2238 s	5.00 %	5.00 %	2.2620 s	1.72 %	Pass
3.000 * Tap		1.5345 s	5.00 %	5.00 %	1.5622 s	1.81 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-25 09:29		Comment				
Last tested	2025-Jun-25 09:29		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-25 09:29	50.000 A	5.00 %	5.00 %	49.950 A	-0.10 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:27		Comment		
Last tested	2025-Jun-25 09:30		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-25 09:30	0.0000 s	0.1000 s	0.0000 s	0.0624 s	0.0624 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B2 A SWGR-SS-1



Device	FEEDER BREAKER B2 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B2 A			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-23 08:37			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 08:39			Comment	
Last tested	2025-Jun-23 08:37			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 08:30			Comment	
Last tested	2025-Jun-23 08:26			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:26	2.500 A	5.00 %	5.00 %	2.500 A	0.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 08:39			Comment			
Last tested	2025-Jun-23 08:29			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 08:29	8.0586 s	5.00 %	5.00 %	8.1186 s	0.74 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.3208 s	-0.28 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.7735 s	0.32 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:33		Comment				
Last tested	2025-Jun-23 08:34		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:34	60.000 A	5.00 %	5.00 %	60.010 A	0.02 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 08:36		Comment		
Last tested	2025-Jun-23 08:37		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 08:37	0.0000 s	0.1000 s	0.0000 s	0.0716 s	0.0716 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B2 B SWGR-SS-1



Device	FEEDER BREAKER B2 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B2 B		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 07:48		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 07:48		Comment		
Last tested	2025-Jun-24 07:48		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 08:30		Comment		
Last tested	2025-Jun-23 08:43		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:43	2.500 A	5.00 %	5.00 %	2.600 A	4.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 08:40			Comment			
Last tested	2025-Jun-23 08:43			Tested by w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 08:43	8.0586 s	5.00 %	5.00 %	8.1551 s	1.20 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.3387 s	0.14 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.7811 s	0.59 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:48		Comment				
Last tested	2025-Jun-23 08:49		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:49	60.000 A	5.00 %	5.00 %	60.340 A	0.57 %	Pass

Test	50 TIMING		Status		Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 08:36	Comment			
Last tested	2025-Jun-23 08:49	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 08:49	0.0000 s	0.1000 s	0.0000 s	0.0799 s	0.0799 s	Pass

Test	COMMENT		Status		Warning
Description	Document Step				
Last modified	2025-Jun-24 07:48	Comment			
Last tested	2025-Jun-24 07:48	Tested by	w.gardner		
Instrument SN	n/a				
Calibrated on	n/a	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-24 07:48						Warning

Originator Notes

INST PICKUP DIAL IS BROKEN.
INST FUNCTION STILL WORKS AS INTENDED.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

FEEDER BREAKER B2 C SWGR-SS-1



Device	FEEDER BREAKER B2 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B2 C		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-23 09:00		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:00		Comment		
Last tested	2025-Jun-23 09:00		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 08:30		Comment		
Last tested	2025-Jun-23 08:54		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:54	2.500 A	5.00 %	5.00 %	2.600 A	4.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 08:40			Comment			
Last tested	2025-Jun-23 08:55			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 08:55	8.0586 s	5.00 %	5.00 %	8.1974 s	1.72 %	Pass
4.000 * Tap		4.3328 s	5.00 %	5.00 %	4.3612 s	0.66 %	Pass
5.000 * Tap		2.7647 s	5.00 %	5.00 %	2.7955 s	1.11 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:48		Comment				
Last tested	2025-Jun-23 08:59		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 08:59	60.000 A	5.00 %	5.00 %	60.080 A	0.13 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-23 09:00		Comment			
Last tested	2025-Jun-23 09:00		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:00	0.0000 s	0.1000 s	0.0000 s	0.0753 s	0.0753 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B2 N SWGR-SS-1



Device	FEEDER BREAKER B2 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B2 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 09:07	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:06			Comment	
Last tested	2025-Jun-23 09:07			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:05			Comment	
Last tested	2025-Jun-23 09:04			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:04	5.000 A	5.00 %	5.00 %	5.000 A	0.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:06			Comment			
Last tested	2025-Jun-23 09:06			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-23 09:06	0.5428 s	5.00 %	5.00 %	0.5500 s	1.33 %	Pass
2.500 * Tap		0.4170 s	5.00 %	5.00 %	0.4162 s	-0.20 %	Pass
3.000 * Tap		0.3527 s	5.00 %	5.00 %	0.3493 s	-0.97 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-23 08:48		Comment				
Last tested	2025-Jun-23 09:07		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:07	60.000 A	5.00 %	5.00 %	60.030 A	0.05 %	Pass

Test	50 TIMING		Status	Pass
Description	Operating Time, Current (TA)			
Last modified	2025-Jun-23 09:03	Comment		
Last tested	2025-Jun-23 09:07	Tested by	w.gardner	
Instrument SN	071908940			
Calibrated on	2025-MAR-5	Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 09:07	0.0000 s	0.1000 s	0.0000 s	0.0748 s	0.0748 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 A SWGR-SS-1



Device	FEEDER BREAKER B3 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B3 A		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 09:20		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:26			Comment	
Last tested	2025-Jun-24 09:20			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:26			Comment	
Last tested	2025-Jun-24 09:18			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:18	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:50			Comment			
Last tested	2025-Jun-24 09:18			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 09:18	5.6773 s	5.00 %	5.00 %	5.7840 s	1.88 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4107 s	0.61 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4386 s	0.82 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:20		Comment				
Last tested	2025-Jun-24 09:20		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:20	30.000 A	5.00 %	5.00 %	30.030 A	0.10 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 09:20		Comment		
Last tested	2025-Jun-24 09:20		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:20	0.0000 s	0.1000 s	0.0000 s	0.0633 s	0.0633 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 B SWGR-SS-1



Device	FEEDER BREAKER B3 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B3 B			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-24 09:30			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:27			Comment	
Last tested	2025-Jun-24 09:30			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:27			Comment	
Last tested	2025-Jun-24 09:28			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:28	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:50			Comment			
Last tested	2025-Jun-24 09:28			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 09:28	5.6773 s	5.00 %	5.00 %	5.7548 s	1.36 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.3927 s	0.08 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4217 s	0.12 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:20		Comment				
Last tested	2025-Jun-24 09:29		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:29	30.000 A	5.00 %	5.00 %	30.130 A	0.43 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 09:20		Comment		
Last tested	2025-Jun-24 09:30		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:30	0.0000 s	0.1000 s	0.0000 s	0.0668 s	0.0668 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 C SWGR-SS-1



Device	FEEDER BREAKER B3 C		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B3 C	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-24 09:34	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:31			Comment	
Last tested	2025-Jun-24 09:34			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:27			Comment	
Last tested	2025-Jun-24 09:32			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:32	2.700 A	5.00 %	5.00 %	2.800 A	3.70 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-23 09:50			Comment			
Last tested	2025-Jun-24 09:33			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 09:33	5.6773 s	5.00 %	5.00 %	5.7590 s	1.44 %	Pass
4.000 * Tap		3.3901 s	5.00 %	5.00 %	3.4124 s	0.66 %	Pass
5.000 * Tap		2.4187 s	5.00 %	5.00 %	2.4345 s	0.65 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:20		Comment				
Last tested	2025-Jun-24 09:33		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:33	30.000 A	5.00 %	5.00 %	30.170 A	0.57 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 09:31		Comment		
Last tested	2025-Jun-24 09:34		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:34	0.0000 s	0.1000 s	0.0000 s	0.0669 s	0.0669 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 N SWGR-SS-1



Device	FEEDER BREAKER B3 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B3 N			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-24 09:41			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:41			Comment	
Last tested	2025-Jun-24 09:41			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:38			Comment	
Last tested	2025-Jun-24 09:38			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:38	1.000 A	1.200 A	0.800 A	1.100 A	0.100 A	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:38			Comment			
Last tested	2025-Jun-24 09:39			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-24 09:39	1.8818 s	5.00 %	5.00 %	1.9490 s	3.57 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1438 s	1.59 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.8007 s	2.49 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:41		Comment				
Last tested	2025-Jun-24 09:41		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:41	20.000 A	5.00 %	5.00 %	20.110 A	0.55 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 09:41		Comment		
Last tested	2025-Jun-24 09:41		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:41	0.0000 s	0.1000 s	0.0000 s	0.0642 s	0.0642 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 A SWGR-SS-2



Device	FEEDER BREAKER B3 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B3 A			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 10:59			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:45			Comment	
Last tested	2025-Jun-26 10:59			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 10:58			Comment	
Last tested	2025-Jun-26 10:57			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:57	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 10:58			Comment			
Last tested	2025-Jun-26 10:58			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 10:58	2.2877 s	5.00 %	5.00 %	2.3272 s	1.73 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3828 s	0.72 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9894 s	0.52 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03		Comment				
Last tested	2025-Jun-26 10:59		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 10:59	60.000 A	5.00 %	5.00 %	59.600 A	-0.67 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-30 08:45		Comment			
Last tested	2025-Jun-26 10:59		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 10:59	0.0000 s	0.1000 s	0.0000 s	0.0620 s	0.0620 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 B SWGR-SS-2



Device	FEEDER BREAKER B3 B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B3 B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 11:07	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:44			Comment	
Last tested	2025-Jun-26 11:07			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-30 08:44			Comment	
Last tested	2025-Jun-26 11:06			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:06	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 10:58			Comment			
Last tested	2025-Jun-26 11:06			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 11:06	2.2877 s	5.00 %	5.00 %	2.3258 s	1.66 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3818 s	0.65 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9934 s	0.93 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03			Comment			
Last tested	2025-Jun-26 11:07			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:07	60.000 A	5.00 %	5.00 %	60.290 A	0.48 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-26 11:02		Comment		
Last tested	2025-Jun-26 11:07		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 11:07	0.0000 s	0.1000 s	0.0000 s	0.0719 s	0.0719 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 C SWGR-SS-2



Device	FEEDER BREAKER B3 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-2				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B3 C			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-26 11:11			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:44			Comment	
Last tested	2025-Jun-26 11:11			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 11:09			Comment	
Last tested	2025-Jun-26 11:09			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:09	6.000 A	5.00 %	5.00 %	6.000 A	0.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 10:58			Comment			
Last tested	2025-Jun-26 11:10			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-26 11:10	2.2877 s	5.00 %	5.00 %	2.3050 s	0.76 %	Pass
4.000 * Tap		1.3729 s	5.00 %	5.00 %	1.3762 s	0.24 %	Pass
5.000 * Tap		0.9843 s	5.00 %	5.00 %	0.9872 s	0.30 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03			Comment			
Last tested	2025-Jun-26 11:10			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:10	60.000 A	5.00 %	5.00 %	59.660 A	-0.57 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-30 08:44		Comment			
Last tested	2025-Jun-26 11:11		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 11:11	0.0000 s	0.1000 s	0.0000 s	0.0632 s	0.0632 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B3 N SWGR-SS-2



Device	FEEDER BREAKER B3 N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	FEEDER BREAKER B3 N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-26 11:14	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:43			Comment	
Last tested	2025-Jun-26 11:14			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-26 11:13			Comment	
Last tested	2025-Jun-26 11:13			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:13	5.000 A	5.00 %	5.00 %	5.000 A	0.00 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-26 11:13			Comment			
Last tested	2025-Jun-26 11:13			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-26 11:13	1.8818 s	5.00 %	5.00 %	1.8949 s	0.69 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1344 s	0.76 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7882 s	0.89 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-26 10:03		Comment				
Last tested	2025-Jun-26 11:14		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-26 11:14	60.000 A	5.00 %	5.00 %	59.530 A	-0.78 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-30 08:43		Comment		
Last tested	2025-Jun-26 11:14		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-26 11:14	0.0000 s	0.1000 s	0.0000 s	0.0629 s	0.0629 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B4 A SWGR-SS-1



Device	FEEDER BREAKER B4 A			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B4 A		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 09:51		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:51			Comment	
Last tested	2025-Jun-24 09:51			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:49			Comment	
Last tested	2025-Jun-24 09:49			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:49	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 09:50			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 09:50	1.7605 s	5.00 %	5.00 %	1.7756 s	0.86 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0583 s	-0.07 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7625 s	0.18 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:51		Comment				
Last tested	2025-Jun-24 09:51		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:51	40.000 A	5.00 %	5.00 %	39.770 A	-0.57 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-24 09:51		Comment		
Last tested	2025-Jun-24 09:51		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:51	0.0000 s	0.1000 s	0.0000 s	0.0630 s	0.0630 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B4 B SWGR-SS-1



Device	FEEDER BREAKER B4 B			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus				Serial Number	N/A
Manufacturer	BASLER			Special ID	
Model	BE1-50/51B-105			Location	ALEXANDRIA SANITATION
Function	PROTECTION			Company	
Circuit	FEEDER BREAKER B4 B			Division	
Firmware Version / Date				Asset Tag	RVA25283
Tested by	w.gardner			Reg. Category	Calibration
Last tested	2025-Jun-24 09:56			Next test due	
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:52			Comment	
Last tested	2025-Jun-24 09:56			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:49			Comment	
Last tested	2025-Jun-24 09:54			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:54	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 09:55			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 09:55	1.7605 s	5.00 %	5.00 %	1.7974 s	2.10 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0676 s	0.81 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7675 s	0.83 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:51		Comment				
Last tested	2025-Jun-24 09:56		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 09:56	40.000 A	5.00 %	5.00 %	40.330 A	0.82 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-24 09:52		Comment			
Last tested	2025-Jun-24 09:56		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 09:56	0.0000 s	0.1000 s	0.0000 s	0.0721 s	0.0721 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B4 C SWGR-SS-1



Device	FEEDER BREAKER B4 C			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B4 C		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 10:02		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 09:57		Comment		
Last tested	2025-Jun-24 10:02		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:49		Comment		
Last tested	2025-Jun-24 10:01		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 10:01	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 10:01			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 10:01	1.7605 s	5.00 %	5.00 %	1.7747 s	0.81 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0578 s	-0.12 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7622 s	0.14 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:51		Comment				
Last tested	2025-Jun-24 10:02		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 10:02	40.000 A	5.00 %	5.00 %	39.720 A	-0.70 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-24 09:57		Comment			
Last tested	2025-Jun-24 10:02		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 10:02	0.0000 s	0.1000 s	0.0000 s	0.0631 s	0.0631 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

FEEDER BREAKER B4 N SWGR-SS-1



Device	FEEDER BREAKER B4 N			Status	No status
Description	OVERCURRENT RELAY				
Station Name	SWGR-SS-1				
Apparatus			Serial Number	N/A	
Manufacturer	BASLER		Special ID		
Model	BE1-50/51B-105		Location	ALEXANDRIA SANITATION	
Function	PROTECTION		Company		
Circuit	FEEDER BREAKER B4 N		Division		
Firmware Version / Date			Asset Tag	RVA25283	
Tested by	w.gardner		Reg. Category	Calibration	
Last tested	2025-Jun-24 10:07		Next test due		
Prior test					

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-24 10:03		Comment		
Last tested	2025-Jun-24 10:07		Tested by	w.gardner	

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-24 09:49		Comment		
Last tested	2025-Jun-24 10:06		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 10:06	4.000 A	5.00 %	5.00 %	4.100 A	2.50 %	Pass

Test	51 TIMING				Status	Pass	
Description	Time Overcurrent Characteristic Plot (IA)						
Last modified	2025-Jun-24 09:50			Comment			
Last tested	2025-Jun-24 10:06			Tested by	w.gardner		
Instrument SN	071908940						
Calibrated on	2025-MAR-5			Device Firmware Version			
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-24 10:06	1.7605 s	5.00 %	5.00 %	1.7908 s	1.72 %	Pass
4.000 * Tap		1.0591 s	5.00 %	5.00 %	1.0687 s	0.91 %	Pass
5.000 * Tap		0.7612 s	5.00 %	5.00 %	0.7679 s	0.89 %	Pass

Test	50 PICKUP				Status	Pass	
Description	Pulsed Linear Ramp, Current (TA)						
Last modified	2025-Jun-24 09:51		Comment				
Last tested	2025-Jun-24 10:07		Tested by	w.gardner			
Instrument SN	071908940						
Calibrated on	2025-MAR-5		Device Firmware Version				
Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-24 10:07	40.000 A	5.00 %	5.00 %	40.140 A	0.35 %	Pass

Test	50 TIMING				Status	Pass
Description	Operating Time, Current (TA)					
Last modified	2025-Jun-24 10:03		Comment			
Last tested	2025-Jun-24 10:07		Tested by	w.gardner		
Instrument SN	071908940					
Calibrated on	2025-MAR-5		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-24 10:07	0.0000 s	0.1000 s	0.0000 s	0.0676 s	0.0676 s	Pass

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

TIE BREAKER MT A SWGR-SS-1



Device	TIE BREAKER MT A		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT A	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 12:09	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:51			Comment	
Last tested	2025-Jun-23 12:09			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:49			Comment	
Last tested	2025-Jun-23 09:49			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:49	6.000 A	5.00 %	5.00 %	6.200 A	3.33 %	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 09:50			Comment	
Last tested	2025-Jun-23 09:50			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 09:50	3.7942 s	5.00 %	5.00 %	3.8875 s	2.46 %	Pass
4.000 * Tap		2.2694 s	5.00 %	5.00 %	2.3030 s	1.48 %	Pass
5.000 * Tap		1.6218 s	5.00 %	5.00 %	1.6392 s	1.07 %	Pass

Test	COMMENT				Status	Pass
Description	Document Step					
Last modified	2025-Jun-23 09:51		Comment			
Last tested	2025-Jun-23 12:09		Tested by	w.gardner		
Instrument SN	n/a					
Calibrated on	n/a		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 12:09						Pass

Originator Notes

INST FUNCTION IS DISABLED.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

TIE BREAKER MT B SWGR-SS-1



Device	TIE BREAKER MT B		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT B	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 12:08	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:57			Comment	
Last tested	2025-Jun-23 12:08			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:49			Comment	
Last tested	2025-Jun-23 09:55			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 09:55	6.000 A	5.00 %	5.00 %	6.200 A	3.33 %	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 09:50			Comment	
Last tested	2025-Jun-23 09:56			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 09:56	3.7942 s	5.00 %	5.00 %	3.8864 s	2.43 %	Pass
4.000 * Tap		2.2694 s	5.00 %	5.00 %	2.3055 s	1.59 %	Pass
5.000 * Tap		1.6218 s	5.00 %	5.00 %	1.6384 s	1.02 %	Pass

Test	COMMENT				Status	Pass
Description	Document Step					
Last modified	2025-Jun-23 09:52		Comment			
Last tested	2025-Jun-23 12:08		Tested by	w.gardner		
Instrument SN	n/a					
Calibrated on	n/a		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 12:08						Pass

Originator Notes

INST FUNCTION IS DISABLED.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

TIE BREAKER MT C SWGR-SS-1



Device	TIE BREAKER MT C		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT C	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 12:07	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 09:59			Comment	
Last tested	2025-Jun-23 12:07			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 09:49			Comment	
Last tested	2025-Jun-23 10:01			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:01	6.000 A	5.00 %	5.00 %	6.200 A	3.33 %	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 09:50			Comment	
Last tested	2025-Jun-23 10:01			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 10:01	3.7942 s	5.00 %	5.00 %	3.8855 s	2.41 %	Pass
4.000 * Tap		2.2694 s	5.00 %	5.00 %	2.2967 s	1.20 %	Pass
5.000 * Tap		1.6218 s	5.00 %	5.00 %	1.6381 s	1.00 %	Pass

Test	COMMENT				Status	Pass
Description	Document Step					
Last modified	2025-Jun-23 09:59		Comment			
Last tested	2025-Jun-23 12:07		Tested by	w.gardner		
Instrument SN	n/a					
Calibrated on	n/a		Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 12:07						Pass

Originator Notes

INST FUNCTION IS DISABLED.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

TIE BREAKER MT N SWGR-SS-1



Device	TIE BREAKER MT N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-1			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 12:04	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-23 11:57			Comment	
Last tested	2025-Jun-23 12:04			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 10:06			Comment	
Last tested	2025-Jun-23 10:06			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:06	1.000 A	1.200 A	0.900 A	1.100 A	0.100 A	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 10:07			Comment	
Last tested	2025-Jun-23 10:07			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-23 10:07	1.8818 s	5.00 %	5.00 %	1.9358 s	2.87 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1498 s	2.12 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7938 s	1.61 %	Pass

Test	50 PICKUP			Status	Pass
Description	Pulsed Linear Ramp, Current (TA)				
Last modified	2025-Jun-23 10:26			Comment	
Last tested	2025-Jun-23 10:21			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:21	60.000 A	5.00 %	5.00 %	61.000 A	1.67 %	Pass

Test	50 TIMING	Status	Pass
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Description Operating Time, Current (TA)

Last modified 2025-Jun-23 11:51

Comment

Last tested 2025-Jun-23 10:23

Tested by w.gardner

Instrument SN 071908940

Calibrated on 2025-MAR-5

Device Firmware Version

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 10:23	0.0000 s	0.1000 s	0.0000 s	0.0839 s	0.0839 s	Pass

Test	COMMENT	Status	Pass
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Description Document Step

Last modified 2025-Jun-23 11:57

Comment

Last tested 2025-Jun-23 12:04

Tested by w.gardner

Instrument SN n/a

Calibrated on n/a

Device Firmware Version

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 12:04						Pass

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a

TIE BREAKER MT A SWGR-SS-2



Device	TIE BREAKER MT A		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT A	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-23 11:30	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:25			Comment	
Last tested	2025-Jun-23 11:30			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 10:38			Comment	
Last tested	2025-Jun-23 10:38			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:38	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 10:39			Comment	
Last tested	2025-Jun-23 10:39			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 10:39	5.2254 s	5.00 %	5.00 %	5.2546 s	0.56 %	Pass
4.000 * Tap		3.1212 s	5.00 %	5.00 %	3.1299 s	0.28 %	Pass
5.000 * Tap		2.2275 s	5.00 %	5.00 %	2.2324 s	0.22 %	Pass

Test	50 PICKUP			Status	Pass
Description	Pulsed Linear Ramp, Current (TA)				
Last modified	2025-Jun-23 10:26			Comment	
Last tested	2025-Jun-23 10:40			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:40	60.000 A	5.00 %	5.00 %	59.720 A	-0.47 %	Pass

Test	50 TIMING			Status	Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 10:36		Comment		
Last tested	2025-Jun-23 10:40		Tested by	w.gardner	
Instrument SN	071908940				
Calibrated on	2025-MAR-5		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 10:40	0.0000 s	0.1000 s	0.0000 s	0.0674 s	0.0674 s	Pass

Test	COMMENT		Status	Warning
Description	Document Step			
Last modified	2025-Jun-30 08:25	Comment		
Last tested	2025-Jun-23 11:30	Tested by	w.gardner	
Instrument SN	071908940			
Calibrated on	2025-MAR-5	Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 11:30						Warning

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

TIME OVERCURRENT FUNCTION IS SET TO DIFFERENT VALUES COMPARED TO B AND C PHASE

A
PU: 6
TIME DIAL: 6.9
CURVE: V

B
PU: 6
TIME DIAL: 5
CURVE: M

C
PU: 6
TIME DIAL: 5
CURVE: V

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

TIE BREAKER MT B SWGR-SS-2



Device	TIE BREAKER MT B	Status	No status
Description	OVERCURRENT RELAY		
Station Name	SWGR-SS-2		
Apparatus		Serial Number	N/A
Manufacturer	BASLER	Special ID	
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION
Function	PROTECTION	Company	
Circuit	TIE BREAKER MT B	Division	
Firmware Version / Date		Asset Tag	RVA25283
Tested by	w.gardner	Reg. Category	Calibration
Last tested	2025-Jun-23 11:31	Next test due	
Prior test			

Plan	NewTestPlan1	Status	No status
Last modified	2025-Jun-30 08:24	Comment	
Last tested	2025-Jun-23 11:31	Tested by	w.gardner

Test	51 PICKUP	Status	Pass
Description	Manual Current Ramp (IA)		
Last modified	2025-Jun-23 10:38	Comment	
Last tested	2025-Jun-23 10:49	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 10:49	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING	Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)		
Last modified	2025-Jun-23 10:51	Comment	
Last tested	2025-Jun-23 10:51	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 10:51	2.7341 s	5.00 %	5.00 %	2.7432 s	0.33 %	Pass
4.000 * Tap		2.1810 s	5.00 %	5.00 %	2.1722 s	-0.40 %	Pass
5.000 * Tap		1.8924 s	5.00 %	5.00 %	1.8850 s	-0.39 %	Pass

Test	50 PICKUP	Status	Pass
Description	Pulsed Linear Ramp, Current (TA)		
Last modified	2025-Jun-23 11:01	Comment	
Last tested	2025-Jun-23 11:01	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 11:01	60.000 A	5.00 %	5.00 %	60.060 A	0.10 %	Pass

Test	50 TIMING		Status		Warning
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 11:03	Comment			
Last tested	2025-Jun-23 11:02	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 11:02	0.0000 s	0.1000 s	0.0000 s	0.2641 s	0.2641 s	Warning

Test	COMMENT		Status		Warning
Description	Document Step				
Last modified	2025-Jun-30 08:24	Comment			
Last tested	2025-Jun-23 11:31	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 11:31						Warning

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

INST FUNCTION HAS LONGER THAN NORMAL DELAY.

TIME OVERCURRENT FUNCTION IS SET TO DIFFERENT VALUES COMPARED TO A AND C PHASE

A
PU: 6
TIME DIAL: 6.9
CURVE: V

B
PU: 6
TIME DIAL: 5
CURVE: M

C
PU: 6
TIME DIAL: 5
CURVE: V

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

TIE BREAKER MT C SWGR-SS-2



Device	TIE BREAKER MT C	Status	No status
Description	OVERCURRENT RELAY		
Station Name	SWGR-SS-2		
Apparatus		Serial Number	N/A
Manufacturer	BASLER	Special ID	
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION
Function	PROTECTION	Company	
Circuit	TIE BREAKER MT C	Division	
Firmware Version / Date		Asset Tag	RVA25283
Tested by	w.gardner	Reg. Category	Calibration
Last tested	2025-Jun-23 11:35	Next test due	
Prior test			

Plan	NewTestPlan1	Status	No status
Last modified	2025-Jun-30 08:23	Comment	
Last tested	2025-Jun-23 11:35	Tested by	w.gardner

Test	51 PICKUP	Status	Pass
Description	Manual Current Ramp (IA)		
Last modified	2025-Jun-23 11:33	Comment	
Last tested	2025-Jun-23 11:32	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 11:32	6.000 A	5.00 %	5.00 %	6.100 A	1.67 %	Pass

Test	51 TIMING	Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)		
Last modified	2025-Jun-23 10:51	Comment	
Last tested	2025-Jun-23 11:33	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
3.000 * Tap	2025-Jun-23 11:33	3.7942 s	5.00 %	5.00 %	3.8803 s	2.27 %	Pass
4.000 * Tap		2.2694 s	5.00 %	5.00 %	2.2913 s	0.96 %	Pass
5.000 * Tap		1.6218 s	5.00 %	5.00 %	1.6366 s	0.91 %	Pass

Test	50 PICKUP	Status	Pass
Description	Pulsed Linear Ramp, Current (TA)		
Last modified	2025-Jun-23 11:01	Comment	
Last tested	2025-Jun-23 11:34	Tested by	w.gardner
Instrument SN	071908940		
Calibrated on	2025-MAR-5	Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 11:34	60.000 A	5.00 %	5.00 %	60.260 A	0.43 %	Pass

Test	50 TIMING		Status	Pass
Description	Operating Time, Current (TA)			
Last modified	2025-Jun-23 11:07	Comment		
Last tested	2025-Jun-23 11:34	Tested by	w.gardner	
Instrument SN	071908940			
Calibrated on	2025-MAR-5	Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 11:34	0.0000 s	0.1000 s	0.0000 s	0.0665 s	0.0665 s	Pass

Test	COMMENT			Status	Warning
Description	Document Step				
Last modified	2025-Jun-30 08:23	Comment			
Last tested	2025-Jun-23 11:35	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-23 11:35						Warning

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

TIME OVERCURRENT FUNCTION IS SET TO DIFFERENT VALUES COMPARED TO A AND B PHASE

A
PU: 6
TIME DIAL: 6.9
CURVE: V

B
PU: 6
TIME DIAL: 5
CURVE: M

C
PU: 6
TIME DIAL: 5
CURVE: V

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5

TIE BREAKER MT N SWGR-SS-2



Device	TIE BREAKER MT N		Status	No status
Description	OVERCURRENT RELAY			
Station Name	SWGR-SS-2			
Apparatus		Serial Number	N/A	
Manufacturer	BASLER	Special ID		
Model	BE1-50/51B-105	Location	ALEXANDRIA SANITATION	
Function	PROTECTION	Company		
Circuit	TIE BREAKER MT N	Division		
Firmware Version / Date		Asset Tag	RVA25283	
Tested by	w.gardner	Reg. Category	Calibration	
Last tested	2025-Jun-24 07:39	Next test due		
Prior test				

Plan	NewTestPlan1			Status	No status
Last modified	2025-Jun-30 08:22			Comment	
Last tested	2025-Jun-24 07:39			Tested by	w.gardner

Test	51 PICKUP			Status	Pass
Description	Manual Current Ramp (IA)				
Last modified	2025-Jun-23 11:40			Comment	
Last tested	2025-Jun-23 11:40			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 11:40	1.000 A	1.200 A	0.900 A	1.100 A	0.100 A	Pass

Test	51 TIMING			Status	Pass
Description	Time Overcurrent Characteristic Plot (IA)				
Last modified	2025-Jun-23 11:40			Comment	
Last tested	2025-Jun-23 11:41			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
2.000 * Tap	2025-Jun-23 11:41	1.8818 s	5.00 %	5.00 %	1.9304 s	2.58 %	Pass
2.500 * Tap		1.1259 s	5.00 %	5.00 %	1.1459 s	1.78 %	Pass
3.000 * Tap		0.7812 s	5.00 %	5.00 %	0.7932 s	1.53 %	Pass

Test	50 PICKUP			Status	Pass
Description	Pulsed Linear Ramp, Current (TA)				
Last modified	2025-Jun-23 11:45			Comment	
Last tested	2025-Jun-23 11:44			Tested by	w.gardner
Instrument SN	071908940				
Calibrated on	2025-MAR-5			Device Firmware Version	

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Ramp	2025-Jun-23 11:44	60.000 A	5.00 %	5.00 %	60.000 A	0.00 %	Pass

Test	50 TIMING		Status		Pass
Description	Operating Time, Current (TA)				
Last modified	2025-Jun-23 11:07	Comment			
Last tested	2025-Jun-23 11:45	Tested by	w.gardner		
Instrument SN	071908940				
Calibrated on	2025-MAR-5	Device Firmware Version			

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
Single Point Test	2025-Jun-23 11:45	0.0000 s	0.1000 s	0.0000 s	0.0583 s	0.0583 s	Pass

Test	COMMENT			Status	Pass
Description	Document Step				
Last modified	2025-Jun-30 08:22		Comment		
Last tested	2025-Jun-24 07:39		Tested by	w.gardner	
Instrument SN	n/a				
Calibrated on	n/a		Device Firmware Version		

Label / Value	Tested	Expected	+	-	Actual	% Error	Result
*	2025-Jun-24 07:39						Pass

Originator Notes

INST FUNCTION WAS DIALED DOWN FROM 99A TO 60A FOR TESTING.

99A EXCEEDS TEST EQUIPMENT CURRENT RANGE.

List of Instruments Used

Serial Number	Calibration Date
071908940	2025-MAR-5
n/a	n/a