



LOAD RECORDINGS



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
 ADDRESS _____ JOB # FORMS-ALL
 USER SAMPLE FORMS COMPANY
 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

PANEL DESIGNATION: _____

MAXIMUM kVA

DATE	5/7/2008							
DAY OF WEEK								
TIME								
VOLTAGE								
A								
B								
C								
AMPERES								
A								
B								
C								
MAXIMUM kVA								
A								
B								
C								
T								
kW								
A								
B								
C								
T								
KVAR								
A								
B								
C								
T								
POWER FACTOR								
A								
B								
C								
T								

COMMENTS:

DEFICIENCIES:

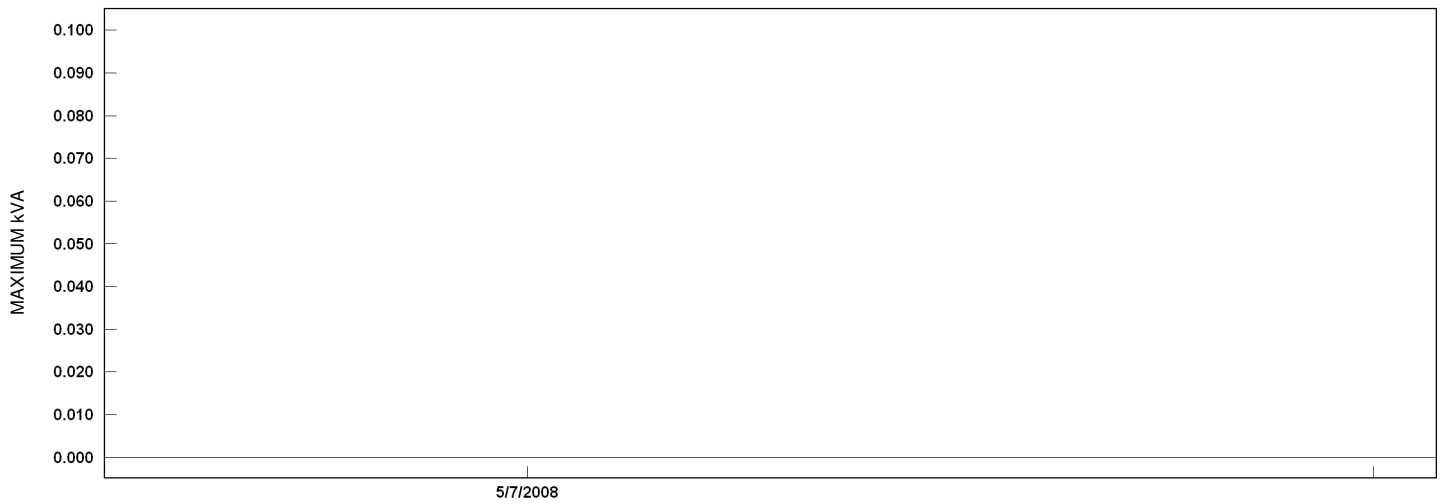
EQPT. INVENTORY NO. _____ TESTED BY: _____



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PAGE _____

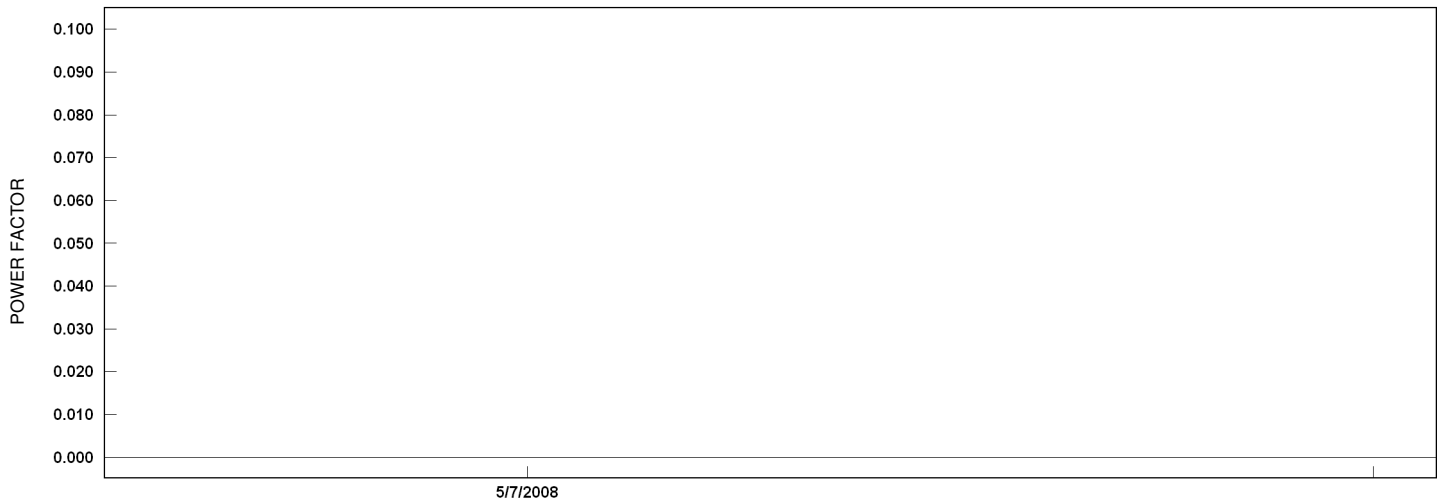




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PAGE _____





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SUBSTATION MISCELLANEOUS POSITION GENERAL

PANEL DESIGNATION: _____

MINIMUM kVA

DATE								
DAY OF WEEK								
TIME								
VOLTAGE								
A								
B								
C								
AMPERES								
A								
B								
C								
MINIMUM kVA								
A								
B								
C								
T								
kW								
A								
B								
C								
T								
KVAR								
A								
B								
C								
T								
POWER FACTOR								
A								
B								
C								
T								

COMMENTS:

DEFICIENCIES:

EQPT. INVENTORY NO. _____ TESTED BY: _____

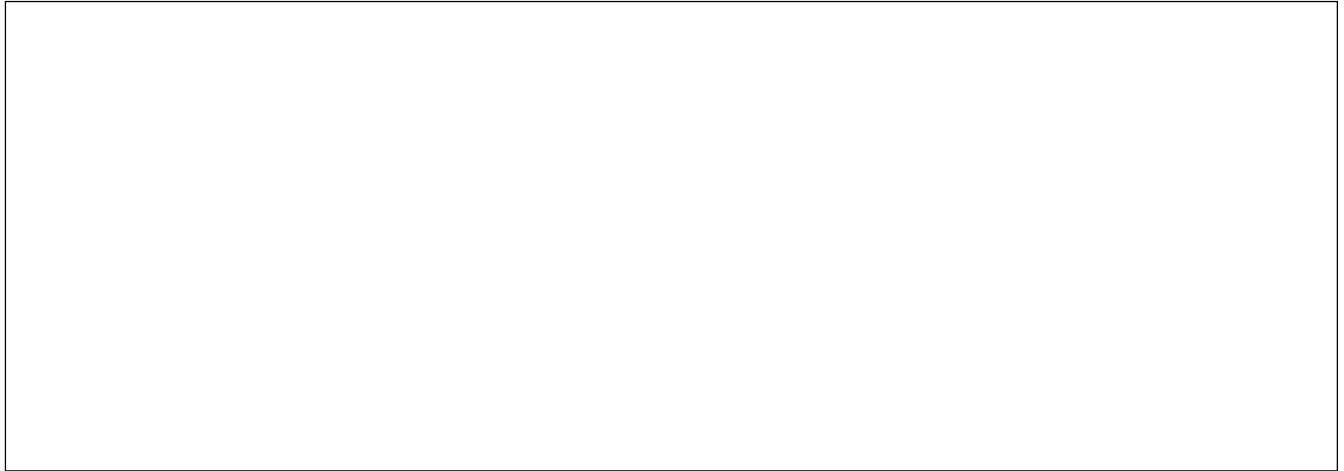


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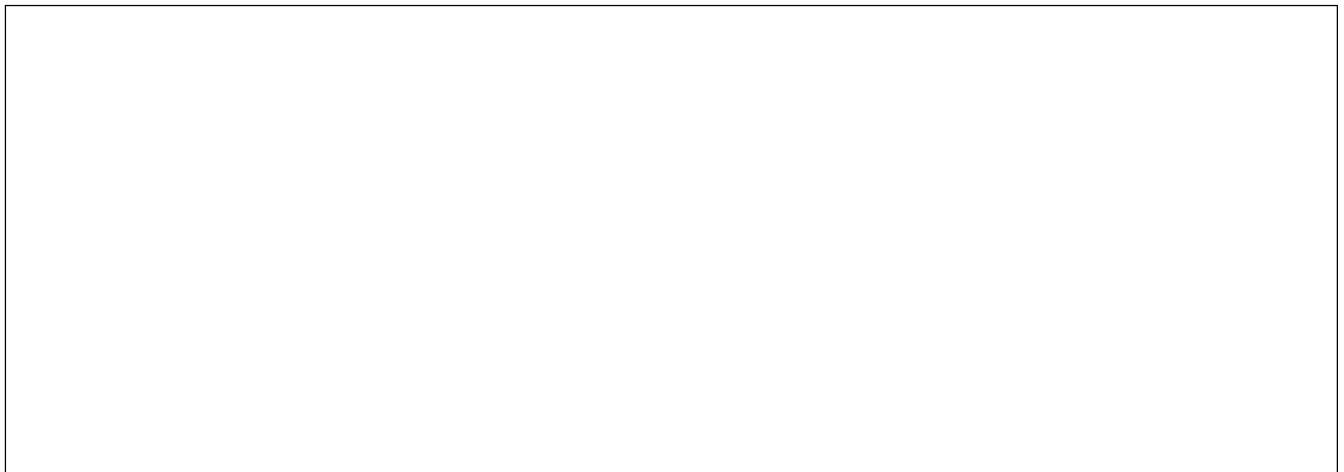


PAGE _____

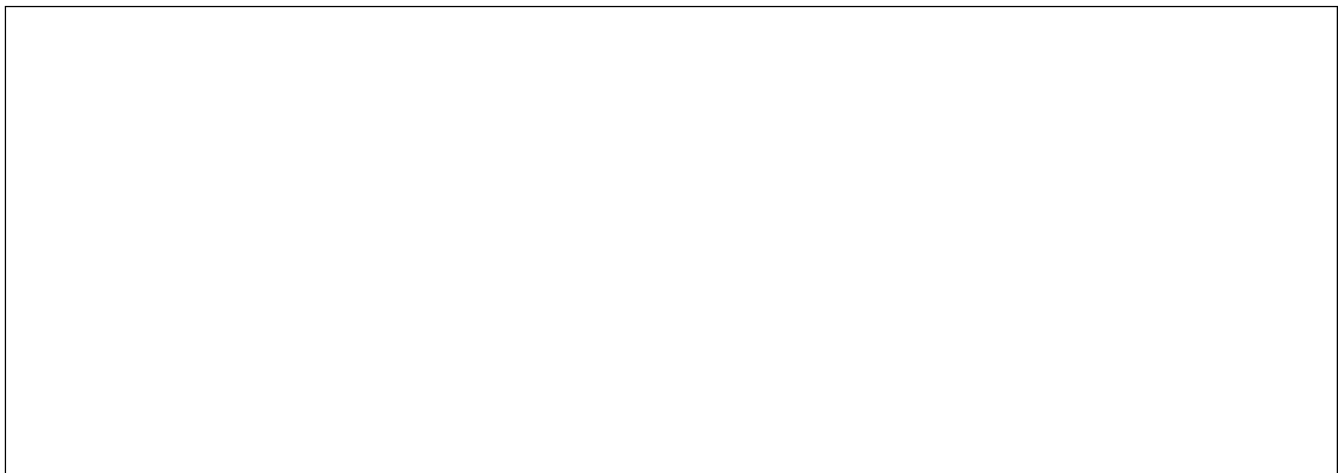
VOLTAGE



AMPERES



MAXIMUM KVA



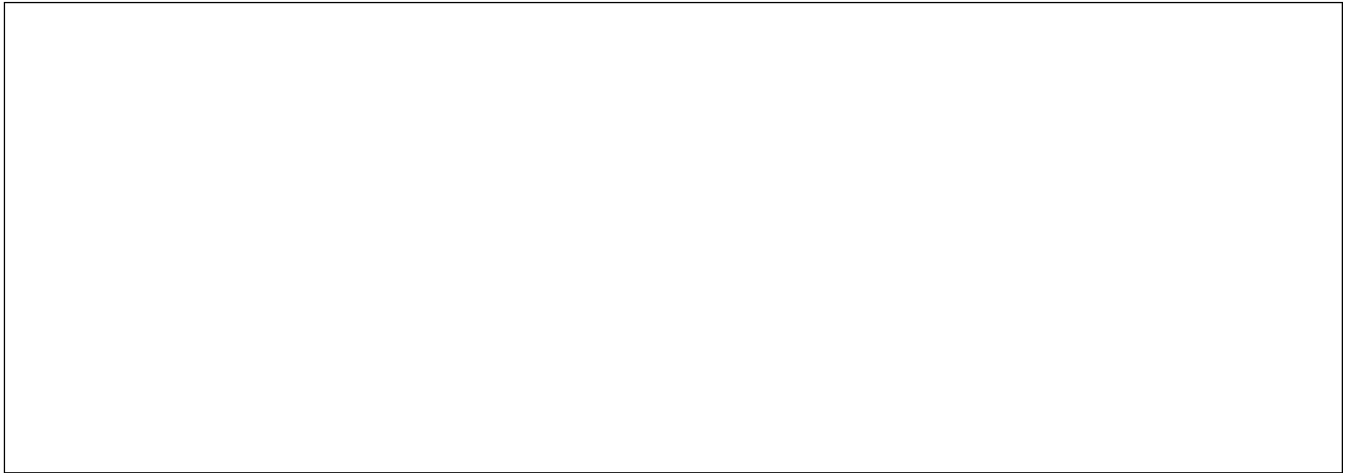


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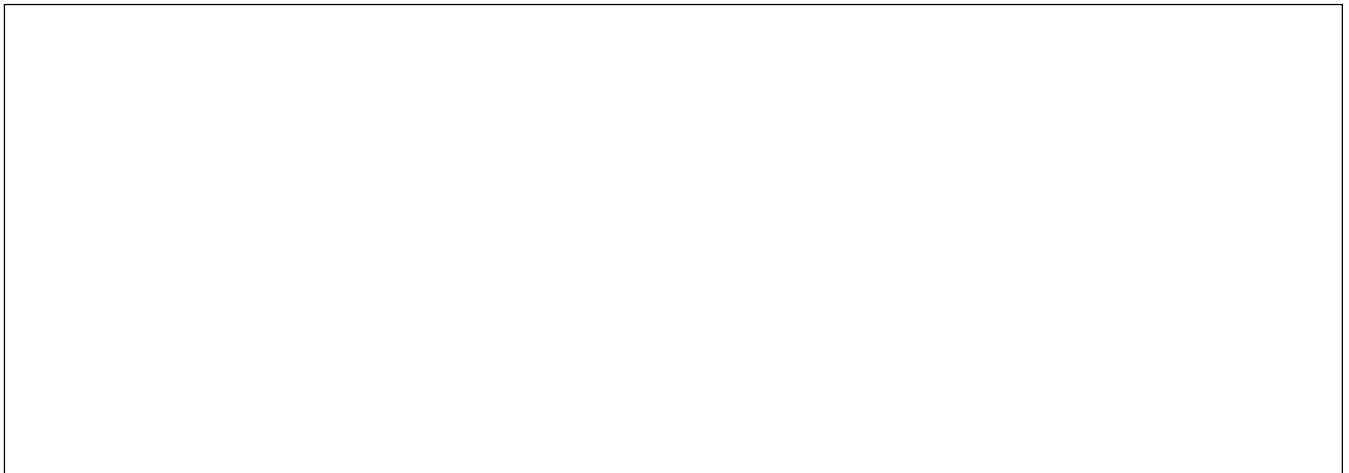


PAGE _____

KW



KVAR



POWER FACTOR





INFRARED IMAGE CAPTURE



CUSTOMER SAMPLE FORMS COMPANY PAGE _____

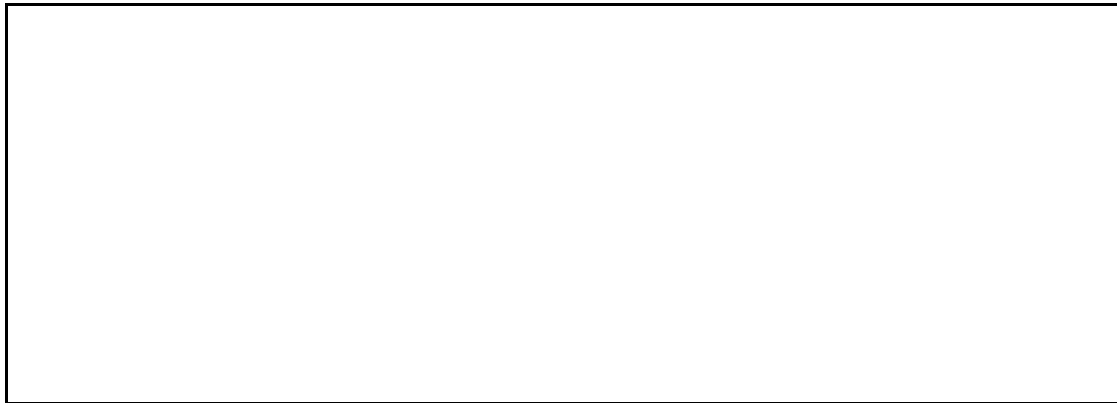
ADDRESS _____ JOB # FORMS-ALL

USER SAMPLE FORMS COMPANY

OWNER REPRESENTATIVE _____ TELEPHONE _____

DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____

SUBSTATION MISCELLANEOUS POSITION GENERAL



ASSET DESCRIPTION: _____

TEST POINT: _____

NOTES: _____

COMMENTS: _____

DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____



TRENDING



CUSTOMER SAMPLE FORMS COMPANY PAGE _____

ADDRESS _____ JOB # FORMS-ALL

USER SAMPLE FORMS COMPANY

OWNER REPRESENTATIVE _____ TELEPHONE _____

DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____

SUBSTATION MISCELLANEOUS POSITION GENERAL

- Asset Tested
- Similar Assets

ASSET DESCRIPTION: _____

TEST POINT: _____

NOTES: _____

COMMENTS:

DEFICIENCIES:

EQPT. INVENTORY NO. _____ TESTED BY: _____



POLARIZATION INDEX (PI) TEST



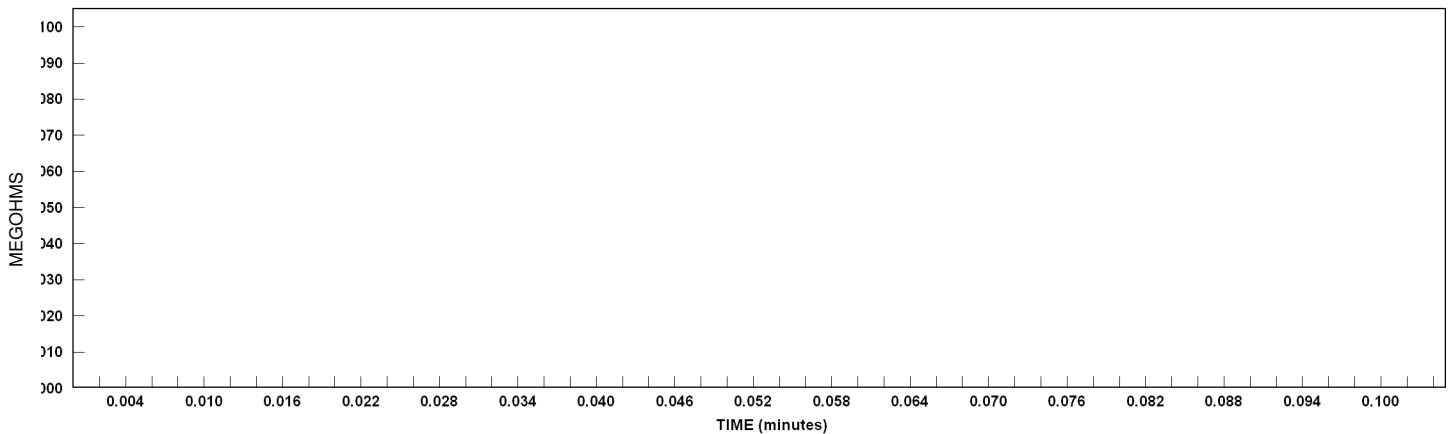
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 ADDRESS _____ JOB # FORMS-ALL
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 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

NAMEPLATE DATA

MANUFACTURER _____ SERIAL NO. _____ TYPE _____
 OTHER INFORMATION _____
 CONNECTED EQUIPMENT _____ WEATHER _____ VOLTAGE RATING _____
 TEST VOLTAGE _____ KVDC TEMPERATURE _____ °C TEMPERATURE CORRECTION FACTOR TO 20 °C, TCF 1.00

MINUTES	...SELECT DEVICE					
	A		B		C	
	READING (megohms)	CORR. VALUE (megohms)	READING (megohms)	CORR. VALUE (megohms)	READING (megohms)	CORR. VALUE (megohms)
0.25						
0.50						
0.75						
1.00						
1.25						
1.50						
1.75						
2.00						
3.00						
4.00						
5.00						
6.00						
7.00						
8.00						
9.00						
10.00						
P. I.						
D. A. R.						

POLARIZATION CURVE



A : Red Square

B : Blue Circle

C : Green Triangle

COMMENTS: _____
 DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____



INSULATION RESISTANCE



CUSTOMER SAMPLE FORMS COMPANY PAGE _____

ADDRESS _____ JOB # FORMS-ALL

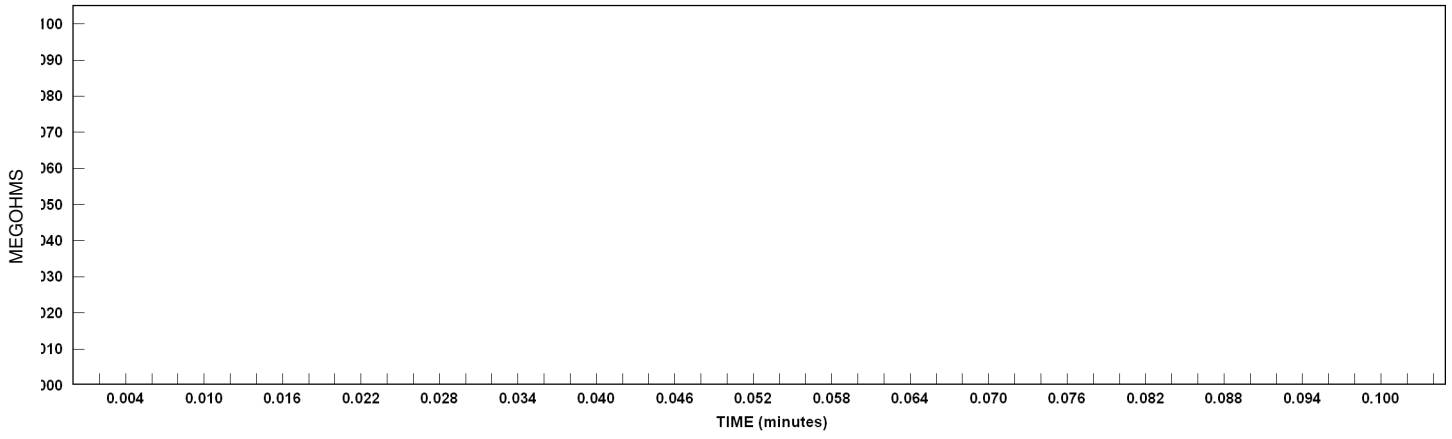
USER SAMPLE FORMS COMPANY

OWNER REPRESENTATIVE _____ TELEPHONE _____

DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____

SUBSTATION MISCELLANEOUS POSITION GENERAL

INSULATION RESISTANCE CURVE



A : Red Square

B : Blue Circle

C : Green Triangle

COMMENTS: _____

DEFICIENCIES: _____

...SELECT DEVICE											
A				B				C			
TIME (minutes)	READING (megohms)	TEMP CORR. (megohms)	CURRENT uA	TIME (minutes)	READING (megohms)	TEMP CORR. (megohms)	CURRENT uA	TIME (minutes)	READING (megohms)	TEMP CORR. (megohms)	CURRENT uA

EQPT. INVENTORY NO. _____

TESTED BY: _____



DISSIPATION FACTOR TEST Miscellaneous Equipment



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
 ADDRESS _____ JOB # FORMS-ALL
 USER SAMPLE FORMS COMPANY
 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

TEST	EQUIPMENT TESTED	EQPT. TEMP.	EQUIPMENT LOCATION	DESCRIPTION OF TEST

TEST	TYPE OF TEST	TEST KV	SW.	CAPACITANCE				% DISSIPATION FACTOR					CALC. % P.F.		
				DIAL READING		CALC. AVG.	MULTIPLIER	CAP. P.F.	DIAL READING		CALC. AVG.	MULTIPLIER		MEAS. %	20° %
				NORM.	REV.				NORM.	REV.					

TRANSFORMER TEMPERATURE _____ °C TEMPERATURE CORRECTION FACTOR TO 20 °C, TCF _____

EQUIPMENT TYPE TESTED:

- OIL-FILLED BUSHINGS
- LIGHTNING ARRESTORS
- LOW VOLTAGE CABLE: INS. TYPE RH, RHW
- COMPOUND-FILLED BUSHINGS
- LOW VOLTAGE CABLE: INS. TYPE TW, THW, THHW, XHHW, THHN
- MEDIUM VOLTAGE CABLE

$$PF = \frac{DF}{\sqrt{1 + DF^2}}$$

COMMENTS: _____

DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____



LIGHTNING ARRESTER TEST



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
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 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

NAMEPLATE DATA

MANUFACTURER _____ TYPE _____ MODEL _____
 CATALOG NO. _____ SERIAL NO. _____ RELIEF _____
 RATED RMS VOLTAGE _____ kV RATED MCOV _____ kA RMS CURRENT RATING _____ kA RATED CREST _____ kA
 SYSTEM VOLTAGE _____ kV ARRESTER TYPE STATION DISTRIBUTION MATERIAL TYPE PORCELIN POLYMER

INSULATION TEST VOLTAGE _____ kV DC TEST VOLTAGE MULTIPLIER _____
 RANGE MULTIPLIER _____ EQUIPMENT TEMPERATURE _____ °C TEMPERATURE CORRECTION FACTOR TO 20°C, TCF _____

INSULATION TEST

POSITION	TOTAL CORRECTION MULTIPLIER	X PHASE TO GROUND		Y PHASE TO GROUND		Z PHASE TO GROUND	
		ACTUAL MEGOHMS	CORRECTED MEGOHMS	ACTUAL MEGOHMS	CORRECTED MEGOHMS	ACTUAL MEGOHMS	CORRECTED MEGOHMS

WATT LOSS TEST

TEST kV SWITCH SETTING _____
 OUTPUT TEST VOLTAGE _____
 READING CORRECTION FACTOR _____

- GROUNDED SPECIMEN TEST
- UNGROUNDED SPECIMEN TEST

MILLI-WATT LOSS

POSITION	X PHASE	Y PHASE	Z PHASE

COMMENTS: _____
 DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____



METER SETTINGS TEST



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
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 USER SAMPLE FORMS COMPANY
 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

CIRCUIT & RELAY INFORMATION

CIRCUIT NAME CIRCUIT NAME
 VOLTAGE _____ AMP _____ CT RATIO _____
 PT RATIO _____ CALIBRATION _____
 EXTERNAL DEVICES _____

METER DESCRIPTION

TYPE _____ RANGE _____
 SERIAL NUMBER _____ FUNCTION _____

SETTINGS

% OF FULL SCALE	TEST VOLTS	TEST AMPS	CALIB.	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%						
75%						
50%						
25%						
0%						

COMMENTS:
 DEFICIENCIES:

EQPT. INVENTORY NO. _____ TESTED BY: _____



MULTI-METER SETTINGS TEST



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
 ADDRESS _____ JOB # FORMS-ALL
 USER SAMPLE FORMS COMPANY
 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

CIRCUIT & RELAY INFORMATION

CIRCUIT NAME _____ EXTERNAL DEVICES _____
 VOLTAGE _____ AMP _____ CT RATIO _____ PT RATIO _____ CALIBRATION _____

METER DESCRIPTION

TYPE _____ SERIAL NUMBER _____ RANGE _____ FUNCTION _____

SETTINGS

A PHASE VOLTS <input type="checkbox"/>		A-N PHASE VOLTS <input type="checkbox"/>		
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

A PHASE AMPS				
% OF FULL SCALE	TEST AMPS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

B PHASE VOLTS <input type="checkbox"/>		B-N PHASE VOLTS <input type="checkbox"/>		
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

B PHASE AMPS				
% OF FULL SCALE	TEST AMPS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

C PHASE VOLTS <input type="checkbox"/>		C-N PHASE VOLTS <input type="checkbox"/>		
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

C PHASE AMPS				
% OF FULL SCALE	TEST AMPS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

A-B PHASE VOLTS				
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

% OF FULL SCALE		ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

B-C PHASE VOLTS				
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

% OF FULL SCALE		ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

A-C PHASE VOLTS				
% OF FULL SCALE	TEST VOLTS	ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

% OF FULL SCALE		ACTUAL METER READING	CAL. METER READING	% OF ERROR
100%				
75%				
50%				
25%				
0%				

COMMENTS: _____
 DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____



CALIBRATION DATA LOG



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
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 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

NAMEPLATE

ITEM TESTED _____
 MANUFACTURER _____ MODEL NUMBER _____
 SERIAL NUMBER _____ TAG NUMBER _____
 OPERATING RANGE _____ INPUT _____ OUTPUT _____

FUNCTION			OUTPUT IN _____	
TEST	RANGE %	INPUT IN _____	AS FOUND	AS LEFT
1				
2				
3				
4				
5				

COMMENTS:
 DEFICIENCIES:

EQPT. INVENTORY NO. _____ TESTED BY: _____



MISCELLANEOUS EQUIPMENT CAPACITANCE AND POWER FACTOR TESTS



CUSTOMER SAMPLE FORMS COMPANY PAGE _____
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 USER SAMPLE FORMS COMPANY
 OWNER REPRESENTATIVE _____ TELEPHONE _____
 DATE 5/7/2008 TEMPERATURE _____ °F HUMIDITY _____ % EQPT. LOCATION _____
 SUBSTATION MISCELLANEOUS POSITION GENERAL

OIL TEMPERATURE _____

TEST NO	PHASE TESTED	TEST MODE	TEST CONNECTIONS				TEST kV	CAPACITANCE C (PF)	% POWER FACTOR			EQUIV.		IR
			ENG	GND	GAR	UST			MEAS.	20° C	CORR.	mA	WATTS	
1											1.000			
2											1.000			
3											1.000			
4											1.000			
5											1.000			
6											1.000			
7											1.000			
8											1.000			
9											1.000			
10											1.000			
11											1.000			
12											1.000			
13											1.000			
14											1.000			
15											1.000			
16											1.000			
17											1.000			
18											1.000			
19											1.000			
20											1.000			

INSULATION RATING KEY
 G = GOOD
 D = DETERIORATED
 I = INVESTIGATE
 B = BAD (REMOVE OR RECONDITION)

COMMENTS: _____
 DEFICIENCIES: _____

EQPT. INVENTORY NO. _____ TESTED BY: _____