

**NY NIAGARA
MOHAWK**

NINE MILE POINT NUCLEAR STATION
SITE LICENSING DEPT.
AREA COMPLEX UNIT 2
P.O. BOX 32
LYCOMING, NY 13093

15:00 HRS 9/7/91

FAX COVER LETTER

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: F. ASHE.

FAX PHONE NO.: 9-1-301-492-

COMPANY/AGENCY: UT/NRC

Cal data for FLUKE used on
UPS April incident

FROM:

NAME: SEP - 7 P.M. A. PINTER Telephone No. 315-349-4621

NUMBER OF PAGES: 3 (INCLUDING COVER SHEET)

DATE: SEP 7 91 TIME: 3:00 P.M.

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9305070012 911031
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9305070012

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INSTRUMENT CALIBRATION DATA SHEET

SYMBOL NO. 55-

INSTRUMENT Digital Multimeter		MANUFACTURER Fluke		MODEL NO. 8060A	SERIAL NO. 4910404
I.D. NUMBER 9244	PROPERTY OF NINE MILE 2		CALIBRATION DATE 7/9/91		NEXT DUE DATE 1/29/92
CALIBRATION PROCEDURE NO. MP-0077-94	REVISION NO. 4	CONTROL NO. 14925	AMBIENT TEMP. 72°F	% RELATIVE HUMID 54	

ORIGINAL

STANDARDS USED	DUE DATE	STANDARDS USED	DUE DATE
FLUKE 510 1B CAL. P.R.# 11722	7/24/92	J.R.L. PRECISION DECADE RES. P.R.# 11788	11/30/91
H-P 745A AC CAL P.R.# 7024	4/17/92	BILLY MEGALEK P.R.# 7100	12/6/91

Section 5-13: Microcomputer & Display Test: O.K.

Section 5-14: Voltage Test

Section 5-15: Resistance Test

Func.	Range	Input	Display	Limits	Range	Input	Display	Limits
		Level	Freq		200 Ω	Short	0.00	0.00 - 0.04
DCV	200 mv	190 mv	DC	190.00	200 Ω	100 Ω	99.99	99.89 - 100.11
	200 mv	190 mv	DC	-190.01	2 KΩ	1 KΩ	9999	.9991 - 1.0009
	2 V	1.9 V	DC	1.9002	20 KΩ	10 KΩ	9.999	9.991 - 10.009
	20 V	19 V	DC	19.001	200 KΩ	100 KΩ	99.98	99.91 - 100.09
	200 V	190 V	DC	190.02	MΩ	1 MΩ	1.0000	.9983 - 1.0017
	1000 V	1000 V	DC	1000.0	MΩ	10 MΩ	10.01	9.95 - 10.05
AC	200 mv	100 mv	50HZ	100.01	MΩ	40 MΩ	40.0	39.3 - 40.7
"	200 mv	100 mv	10KHZ	100.11	MΩ	290 MΩ	288	282 - 298
AC (dB)	200 mv	2.45mv	1KHZ	-50.1	Section 5-16: Continuity Test			
AC (dB)	200 mv	2.45mv	30KHZ	-51.3	Func: Res 2KΩ Input: 100Ω			
AC (dB)	2 V	1.9 V	50HZ	7.79	Display: 100 Limits: .0997 to .1003			
ACV	2 V	1 V	50HZ	9999	Press Audible OK. Sym. OK			
	1 V	1 KHZ	1.0002	0.9940 - 1.0060	Remove Input, No Audible OK. O.C. OK			
	1 V	10KHZ	9992	0.9930 - 1.0070	Section 5-17: Conductance Test			
	1 V	30KHZ	9983	0.9860 - 1.0140	Input: 1 MΩ Range: 2000NS			
	1 V	100KHZ	9914	0.9500 - 1.0500	Display: 1000.1 Limits: 993.0 to 1,007.0			

COMMENTS:

For Information Only

Input: Open Range: 2000NS

Display: 0.1 Limits: 0.0 to 0.2

PERFORMANCE:	LEFT AS FOUND	<input checked="" type="checkbox"/> AS LEFT	<input type="checkbox"/> AS FOUND	APPROVED BY A. Mory	CALIBRATED BY Ray Model	PAGE 1 OF 2
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INSTRUMENT CALIBRATION DATA SHEET

SYMBOL NO. 55-

INSTRUMENT Digital Multimeter		MANUFACTURER Fluke		ORIGINAL		MODEL NO. 850A	SERIAL NO. 4910404
I.D. NUMBER 9244		PROPERTY OF NINE MILE 2		CALIBRATION DATE 7/29/91		NEXT DUE DATE 1/29/92	
CALIBRATION PROCEDURE NO. MP-0077-94		REVISION NO. 4		CONTROL NO. 14925		AMBIENT TEMP. 72°F	
						% RELATIVE HUMIDITY 54	

STANDARDS USED	DUE DATE	STANDARDS USED	DUE DATE
H-P 100E FREQ. STD. P.R.# 3248	9/26/91		
FLUKE 8060A D.M.M. P.R.# 99942	5/10/92		

Section 5-14: Voltage Test (CON.)					Section 5-18: Current Test				
Func.	Range	Input	Input/Display	Limits	Range	Input	Display	Limits	
		Level	Freq.		200µa	190µa	189.97	189.60 to 190.4	
ACV	2V	1V	20 HZ	.9983	0.9890 to 1.0110	"	-190µa	-189.96	-189.60 to -190.4
		100mv	50 HZ	.0998	0.0985 to 0.1015	2ma	1.9ma	1.9003	1.8960 to 1.904
		100mv	30KHZ	.0972	0.0950 to 0.1050	20ma	19ma	19.005	18.941 to 19.05
		100mv	100KHZ	.0851	0.0770 to 0.1230	200ma	190ma	190.06	189.41 to 190.5
ACV	20V	10V	50HZ	10.001	9.940 to 10.060	2000ma	1900ma	1900.2	1894.1 to 1905.
		10V	10KHZ	10.017	9.930 to 10.070	2000ma	-1900ma	-1900.0	-1894.1 to -1900.
		10V	30KHZ	10.005	9.860 to 10.140				
						(AC) 20ma	19ma 1KHZ	19.024	18.848 to 19.15

Section 5-20: Frequency Test					
Func.	Range	Input	Input/Display	Limits	
ACV	200V	100V	50HZ	100.02	99.40 to 100.60
		100V	10KHZ	100.33	99.30 to 100.70
		100V	30KHZ	100.25	98.60 to 101.40
		100V	100KHZ	101.24	95.00 to 105.00
ACV	750V	750V	100HZ	749.8	741.5 to 758.5
"	"	750V	1KHZ	753.2	741.5 to 758.5

Section 5-19: Diode Test

Range: Input: 1 KΩ

For Information Only

COMMENTS: Display .9997 Limits 0.9000 to 1.100, Outcurrent: .9988 Limits 0.9 to 1.1 ma

PERFORMANCE: LEFT AS FOUND AS LEFT AS FOUND

APPROVED BY: [Signature] CALIBRATED BY: [Signature] PAGE 2

