

THIS IS TO OUTLINE THE OPERATING PROCEDURES FOR THE SUPERCONDUCTING CABLE SINE WAVE SPARK TESTER MACHINE THAT IS INCLUDED IN THE OPERATIONS OF THE CABLE INSULATING MACHINE.

REV.	DESCRIPTION	ISSUE	DATE
		APP.	DATE

- A. NORMAL START-UP PROCEDURES
1. TURN VOLTAGE CONTROL KNOB TO 1.5KV.
 2. TURN POWER SWITCH ON.
 3. ADJUST VOLTAGE TO 1.5KV.
- B. NORMAL SHUTDOWN PROCEDURES:
1. TURN POWER SWITCH TO OFF POSITION.
- C. EMERGENCY SHUTDOWN PROCEDURES:
- ANY OF THE FOLLOWING THREE STEPS ARE ACCEPTABLE.
1. TURN POWER SWITCH TO OFF POSITION.
 2. UNPLUG POWER.
 3. DISCONNECT POWER AT ELECTRICAL DISTRIBUTION CABINET P.P.-1B-VII-1A, CIRCUIT #40. THE DISTRIBUTION PANEL IS LOCATED IN 1B#3, IN THE CENTER OF THE BUILDING ON THE WEST WALL.
- D. LOCK-OUT AND TAG PROCEDURES
1. ELECTRICAL DISTRIBUTION PANEL IS LOCATED ON INDUSTRIAL BUILDING #3 WEST WALL, BUILDING CENTER, PANEL P.P.-1B-VII-1A, CIRCUIT #40. USE FERMILAB ES&H APPROVED LOCK-OUT AND TAG PROCEDURES AS SPECIFIED IN CHAPTER #5120 OF THE FERMILAB ES&H MANUAL.
- E. SAFETY
1. THE HAND HELD TESTING BRUSH WILL BE USED ONLY BY TRAINED TECHNICIANS FOR PINPOINTING SUSPECTED PIN HOLE SHORT AREAS.
 2. CABLE TESTING ARE PROTECTIVE COVER SHALL NOT BE LIFTED WITHOUT FIRST TURNING OFF THE MAIN POWER WHICH PREFORMING REPAIRS TO THE CABLE INSULATION. (TESTING ARE PROTECTIVE COVER IS INTERLOCKED.)
- F. SPECIAL PRECAUTIONS
1. ONLY HAVE POWER ACTIVATED WHEN CABLE IS MOVING. POWER ON CONDITION WITH THE CABLE STOPPED COULD CAUSE AN ELECTRICAL BREAKDOWN OF THE INSULATION APPLIED TO THE CABLE.
- G. TRAINING
1. ALL PERSONNEL WILL RECEIVE DOCUMENTED TRAINING FROM EITHER THE CABLE SUPERVISOR, CREW CHIEF OR THE LEAD CABLE MACHINE OPERATOR. THIS TRAINING WILL INCLUDE PROPER START-UP AND SHUT-DOWN PROCEDURES, REVIEW OF MATERIAL SAFETY DATA SHEETS OF MATERIAL USED IN CABLE INSULATING AND OTHER PERTINENT SAFETY CONCERNS.

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	R. JENSEN	
.XX	.XXX	ANGLES	DRAWN	NWDARTLETT	4/24/92
±	±	±	CHECKED	<i>[Signature]</i>	4/29/92
1. BREAK ALL SHARP EDGES .02 MAX.			APPROVED	<i>[Signature]</i>	4/30/92
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ANSI Y14.2M-1982			MATERIAL		
4. MAX. ALL MACH. SURFACES					

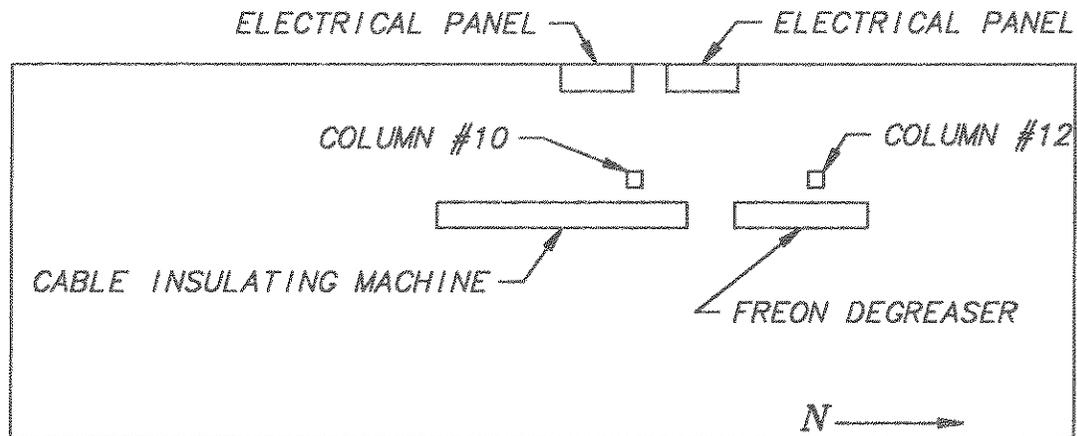


FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

**CABLE INSULATING MACHINE
SINE WAVE SPARK TESTER
OPERATING PROCEDURE**

SCALE	DRAWING NUMBER	SHEET	REV.
<i>N</i>	0102-ES-301865	1 of 2	
CREATED WITH I-DEAS 5.0		USER NAME: NancyB	

REV.	DESCRIPTION	DRAWN	DATE
		APP.	DATE



INDUSTRIAL BUILDING #3

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	<i>E. JENSEN</i>	
.XX	.XXX	ANGLES	DRAWN	<i>NWBARTLETT</i>	<i>4/23/92</i>
\pm <i>rw</i>	\pm <i>rw</i>	\pm <i>rw</i>	CHECKED	<i>NWBARTLETT</i>	<i>4/23/92</i>
1. BREAK ALL SHARP EDGES .02 MAX.			APPROVED	<i>RJA Johnson</i>	<i>4/29/92</i>
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ANSI Y14.6M-1982			MATERIAL		
4. MAX. ALL MACH. SURFACES			✓		

Fermi National Accelerator Laboratory
United States Department of Energy

**CABLE INSULATING MACHINE
 FREON DEGREASER
 OPERATING PROCEDURE**

SCALE	DRAWING NUMBER	SHEET	REV.
<i>N</i>	0102-ES-301865	2 of 2	
CREATED WITH I-DEAS 5.0		USER NAME: <i>KnapfB</i>	