

Mitigating Electrical Hazards

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Safety Background

- Independent
- Not-for-profit
- Focused on safety evaluations
- Global

Crunching Numbers

- Evaluates 19,000 different products
- More than 100,000 investigations
- 6000 employees
- More than 1/2 million factory inspections
- 21 billion UL marks
- Safety testing for over 110 years

Electrical Hazards

- Electrocution
- Shock
- Fire
- Radiation

Steps to Mitigate

- Good safety standards
- Submit product !!!!!
- Test product
- Correct deficiencies
- Follow Up



Promoting Public Safety

- Dynamic standards
- Partnerships
- Public notices
- Recalls

Evaluation Overview

- Construction
- Testing
- Production line tests
- Markings
- Instruction manual



Tests Used

- Temperature measurement
- Shock (or leakage current) test
- Fault simulation
- Exposure to moisture
- Dielectric
- Flexing
- Flammability
- Stability

Testing Involves -

- Heat
- Cold
- Pressure
- Fire
- Water
- Salt
- Ultraviolet light
- Humidity



Auto Cook Numbers and Recipes (Lunch)
-See Instruction Manual for Auto Cook Recipes (Dinner)
A. Chicken Pieces

Panasonic

11/2
1/2

Popcorn Inverter Turbo Defrost (10/10) Auto Reheat (3 servings)

- 1. Oatmeal
- 2. Beverages
- 3. Bacon (slice)
- 4. Fresh Vegetables
- 5. Frozen Vegetables
- 6. Potatoes
- 7. Soup
- 8. Frozen Entrées
- 9. Rice

Auto Cook

Select recipe by number pads

Serving/Weight

1	2	3
4	5	6
7	8	9
Timer	0	Clock

Power Level (10 Levels)

Quick Min

Start

Stop/Reset

INVERTER
POWER SOURCE

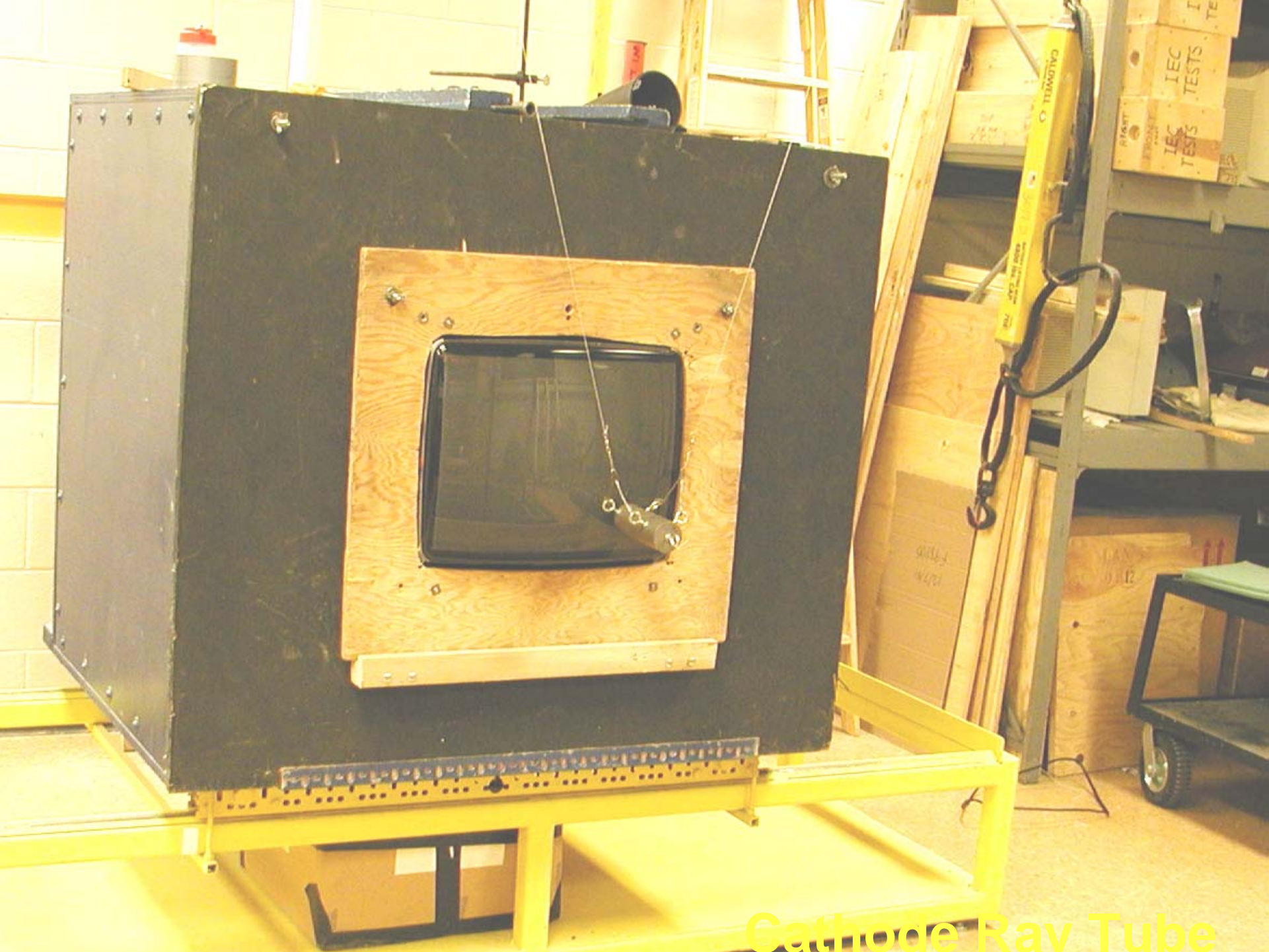
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Microwave Oven Fire Containment Test





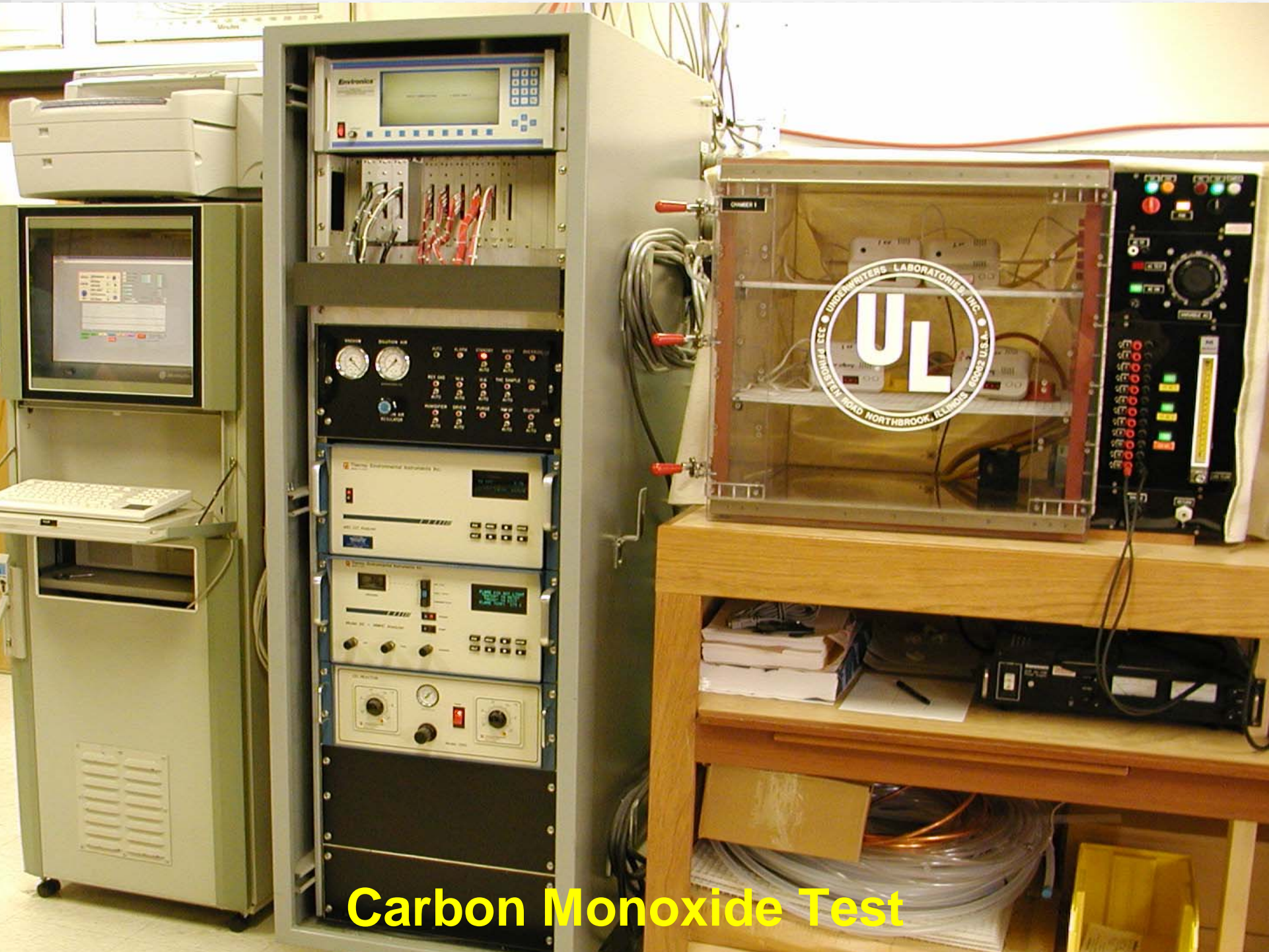
Television X-ray Test



Cathode Ray Tube



Air Heater Abnormal



Carbon Monoxide Test

HOLE IN
BACK PANEL

DEPT 415

5/30/6

5/25/64

11000
200
25





Electro Magnetic Compatibility Laboratory

10 Meter Operational Test



Thank You – Stay Safe

