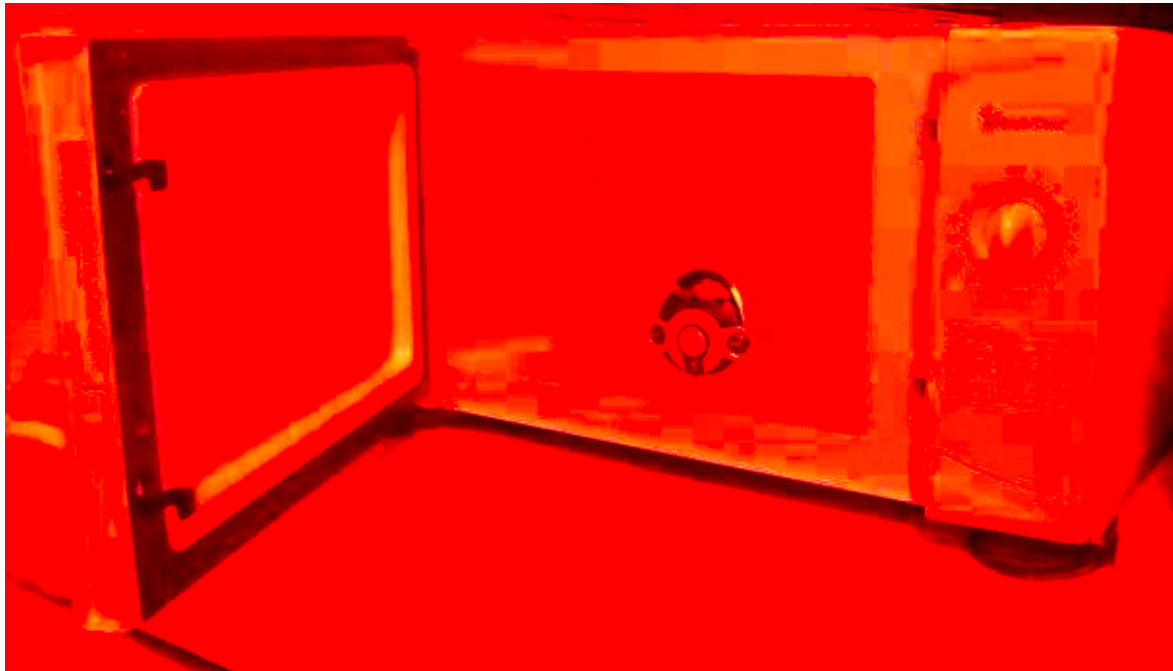


## **Electronics Protected from EMP by Microwave Oven!**



One disaster scenario has a nuclear weapon detonated in orbit. It produces a spike of high-energy electromotive force, called an Electro-Motive Pulse (EMP). The EMP fries all unprotected electronics, such as computers, flat screen TVs, radios, etc. A "Faraday cage" protects from EMP whatever is placed inside it.

I was told that a closed microwave oven would work as a Faraday cage. To test it, turn on a transistor radio and put it in the oven. Close the door. The radio stops playing. Why? A microwave oven is designed to keep microwaves INSIDE for cooking. That means it will also keep out microwaves (radio waves) from outside.

A second test was turning on a cell phone, putting it in the microwave oven, and calling it with another cell phone. With the microwave oven door closed, the cell phone inside did not ring. Then I dialed a cell phone number and put the cell phone inside the microwave oven, with the door shut. The cell phone I dialed did not ring. Conclusion: Radio waves outside a microwave oven stay out. Would this work for EMP? It should. (I have no EMP source to test it.)

Wrapping the radio in a Space Blanket and shielding the radio antenna also stopped the radio from playing. However, the Space Blanket failed the cell phone test. Conclusion: A Space Blanket won't stop EMP.

This is a great use for a dead microwave oven. Be sure to cut off the cord so no one turns it on by accident and fries your electronics!