OSP equipment faces a major enemy…
CORROSION

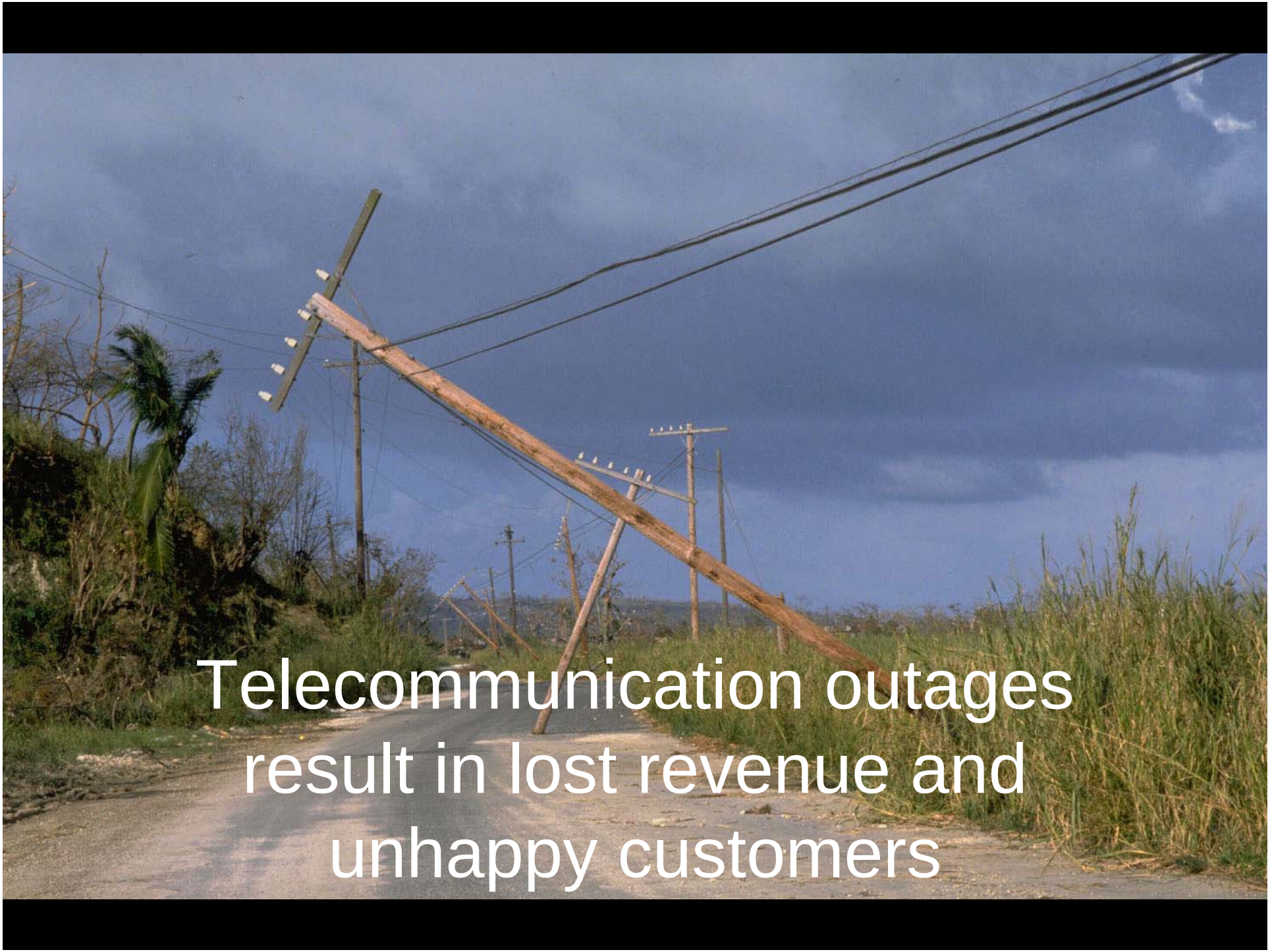
…which Mother Nature delivers through…
Storms and Floods

…which Mother Nature delivers through…
Hurricanes

…which Mother Nature delivers through…
Snow-Drift, Ice, and Condensation

Salt from seawater and ice-melt products really speed up the corrosion process…

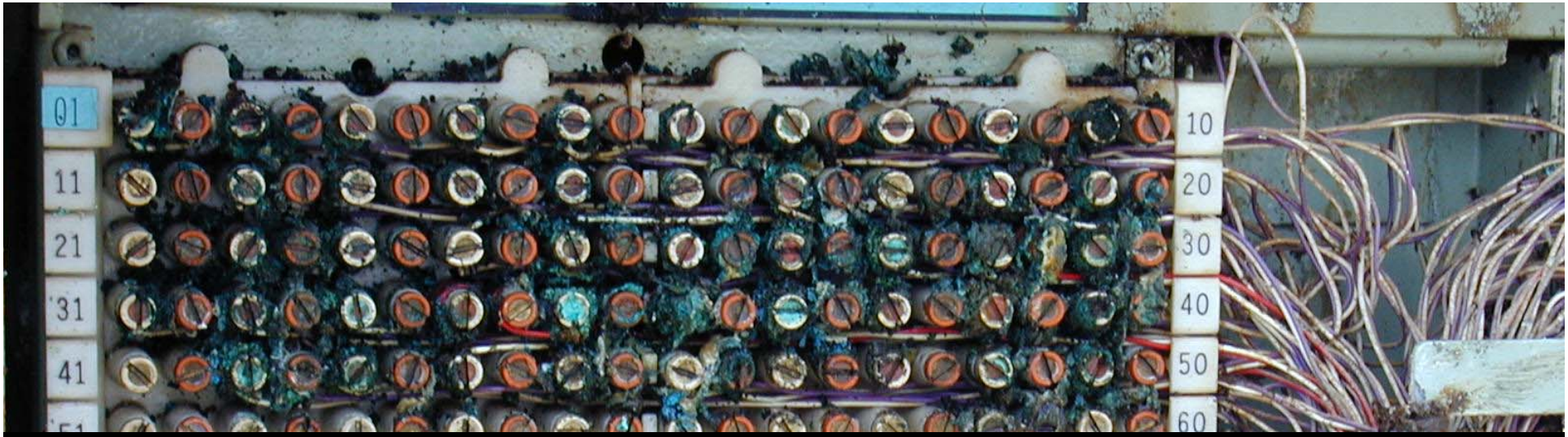
which destroys the communication pathway literally OVERNIGHT


Telecommunication outages
result in lost revenue and
unhappy customers

The solution to restoring service quickly and economically begins with a well-trained crew and the right products for the job.

Rainbow's products for Corrosion Prevention and Equipment Restoration

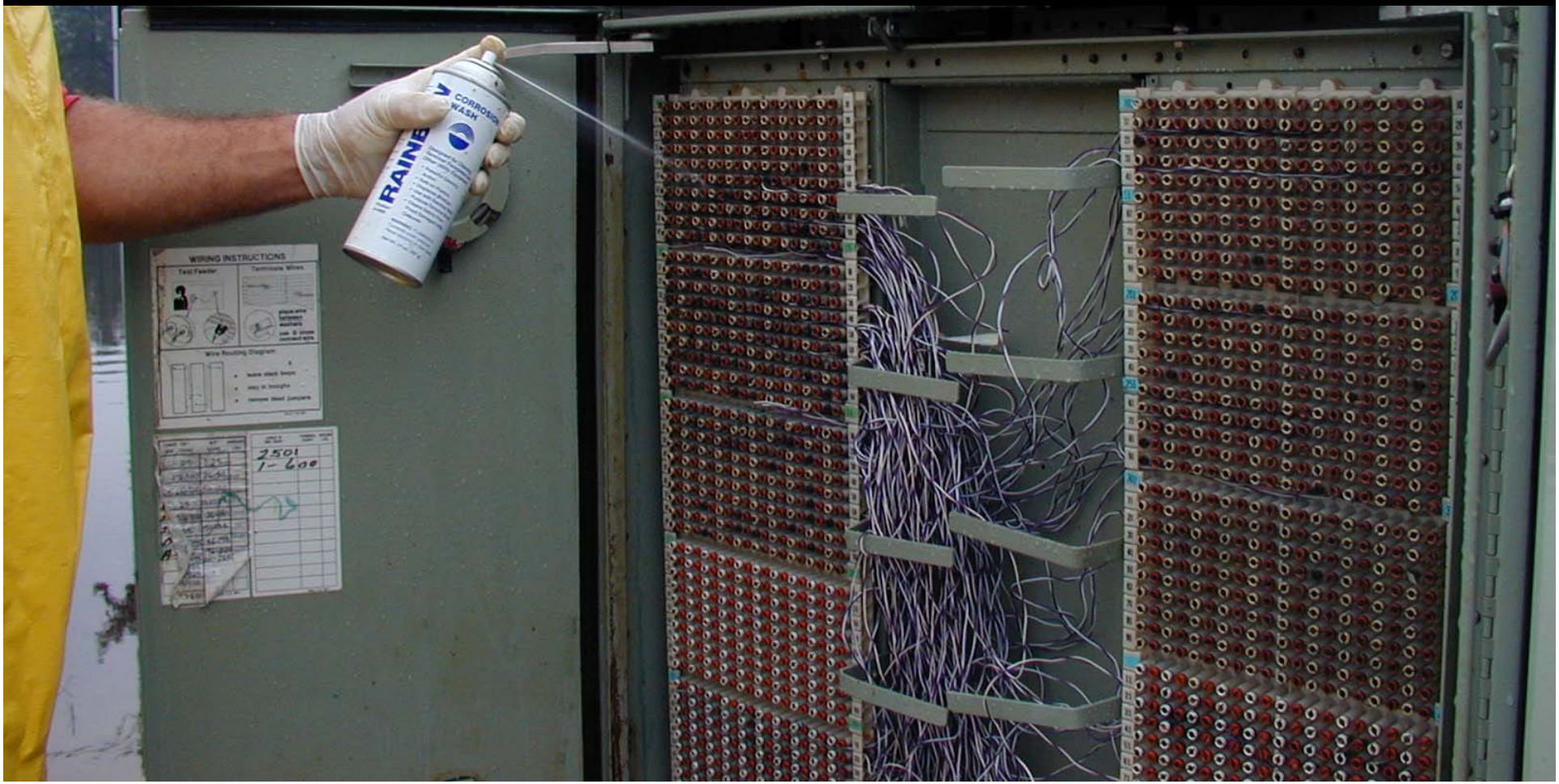
Storm-surge and flooding can pack mud and debris inside OSP equipment beginning the process of corrosion.



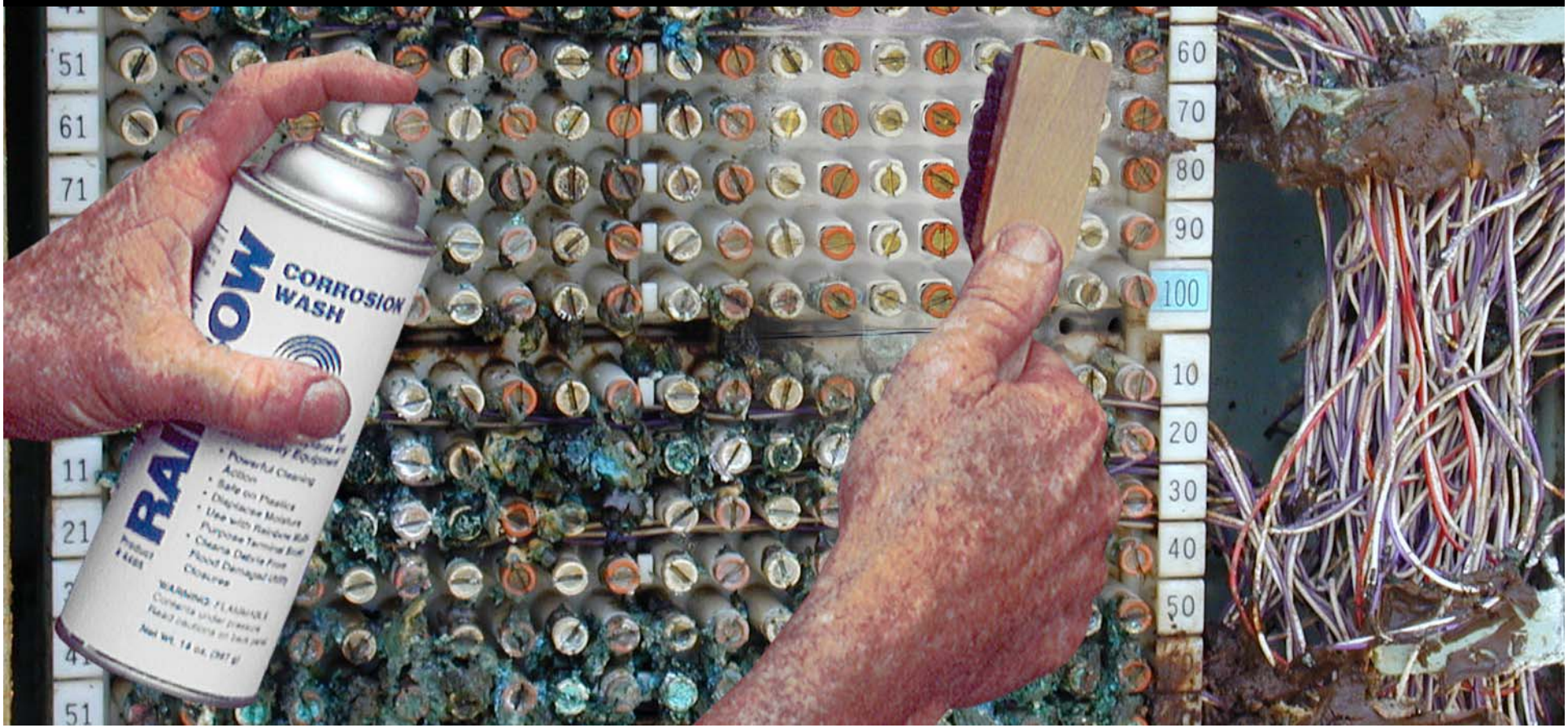
To begin restoring equipment such as this cross-connect box, use a commercial power washer to blow out the heavy contamination such as mud, silt, and other debris.

Due to the remote locations of most OSP equipment, it will be necessary to have a flat-bed trailer equipped with a fresh-water tank (200 gallon minimum) and a power washer.

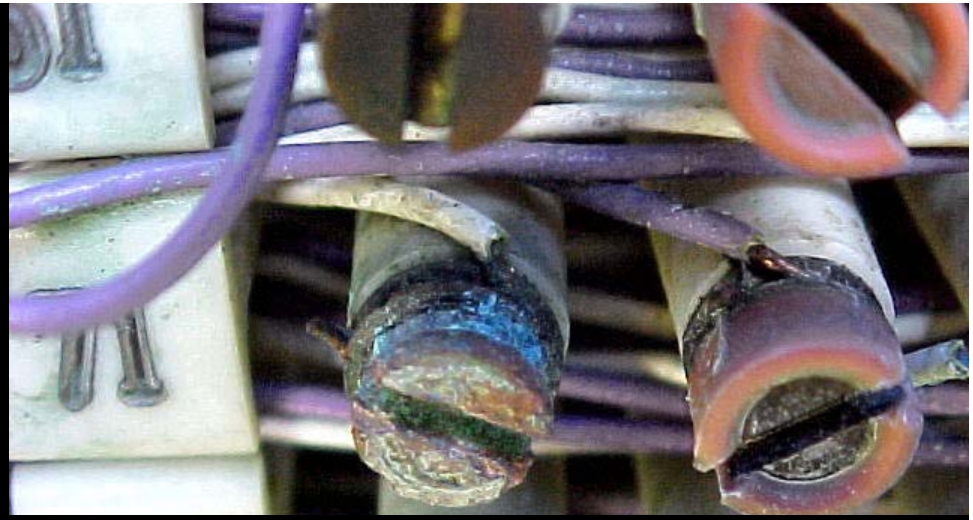
Once the heavy contamination has been cleaned with the power washer, begin using CORROSION WASH (#4495) or (#FR4495) for Canada. Clean corrosion and remaining contaminants from the equipment using CORROSION WASH, spraying the terminal/connector fields from top to bottom rinsing away loose contamination and moisture.



To assist in removing heavily encrusted corrosion and contamination, use the MULTI-PURPOSE TERMINAL BRUSH (#4494). The non-conductive bristles in the MULTI-PURPOSE TERMINAL BRUSH are abrasive but won't scratch and are designed to clean terminal fields and faceplates encrusted with contamination and corrosion in combination with the CORROSION WASH (#4495).



BEFORE TREATMENT



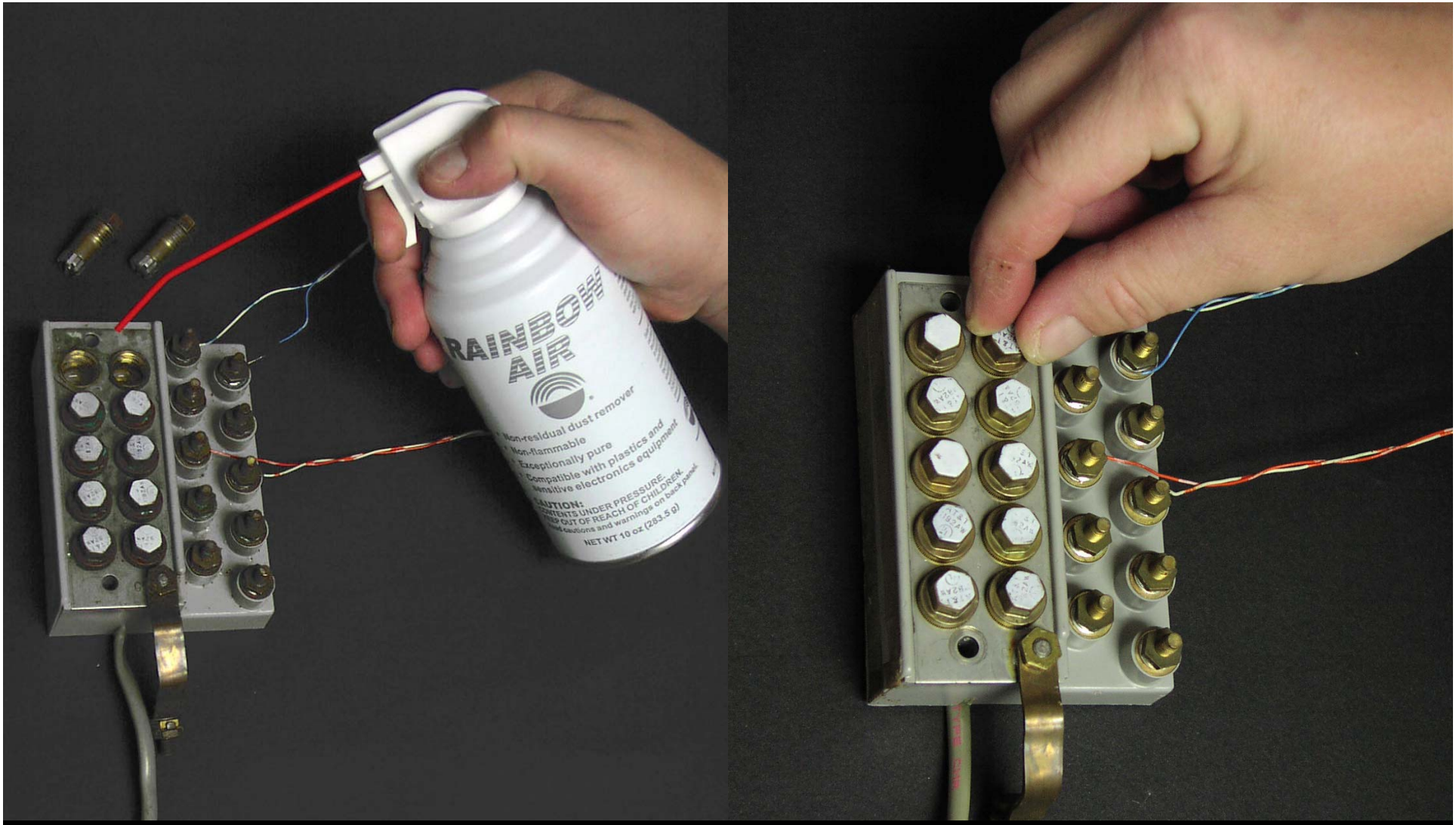
TWO POSSIBLE SCENARIOS:

IF corrosion is severe and cannot be cleaned, the wires must be re-terminated after the screws, washers and nuts have been replaced. Once the termination field, lugs, wires, etc., have been cleaned or replaced, spray STORMY® thoroughly over entire surface area. IF corrosion is not visible after the cleaning process using CORROSION WASH and MULTI-PURPOSE TERMINAL BRUSH, the entire area may then be sprayed liberally with STORMY® ALL WEATHER CORROSION PROTECTOR.

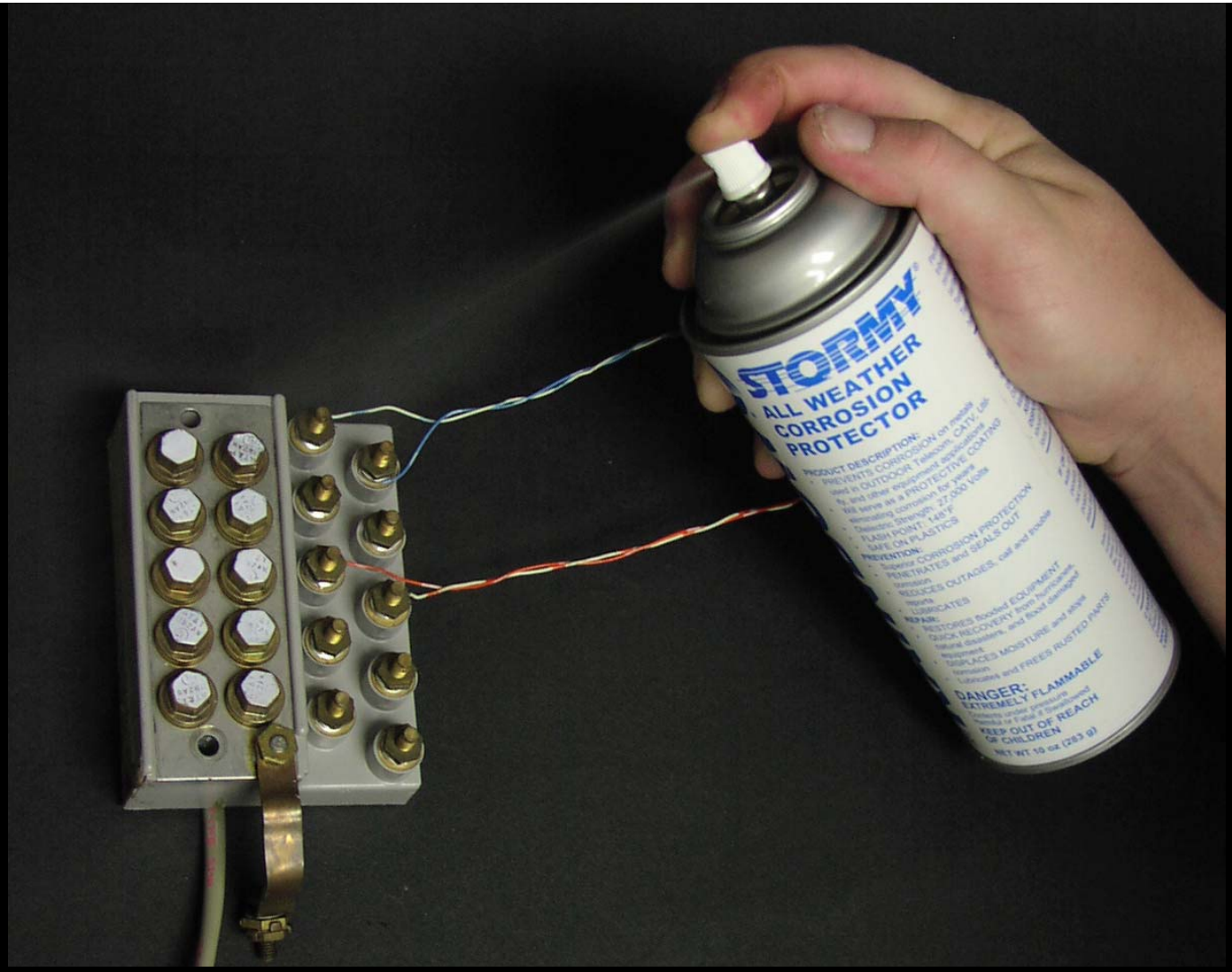
AFTER TREATMENT

STORMY® ALL WEATHER CORROSION PROTECTOR is a thin film spray which is “self healing” in that the film will restore its protective coating if disturbed by test sets, etc.

For fault protected OSP equipment, remove the protector unit and inspect the protector well for contamination. For light contamination, moisture, etc., use PRECISION CLEANER (#41030) to clean the protector well.

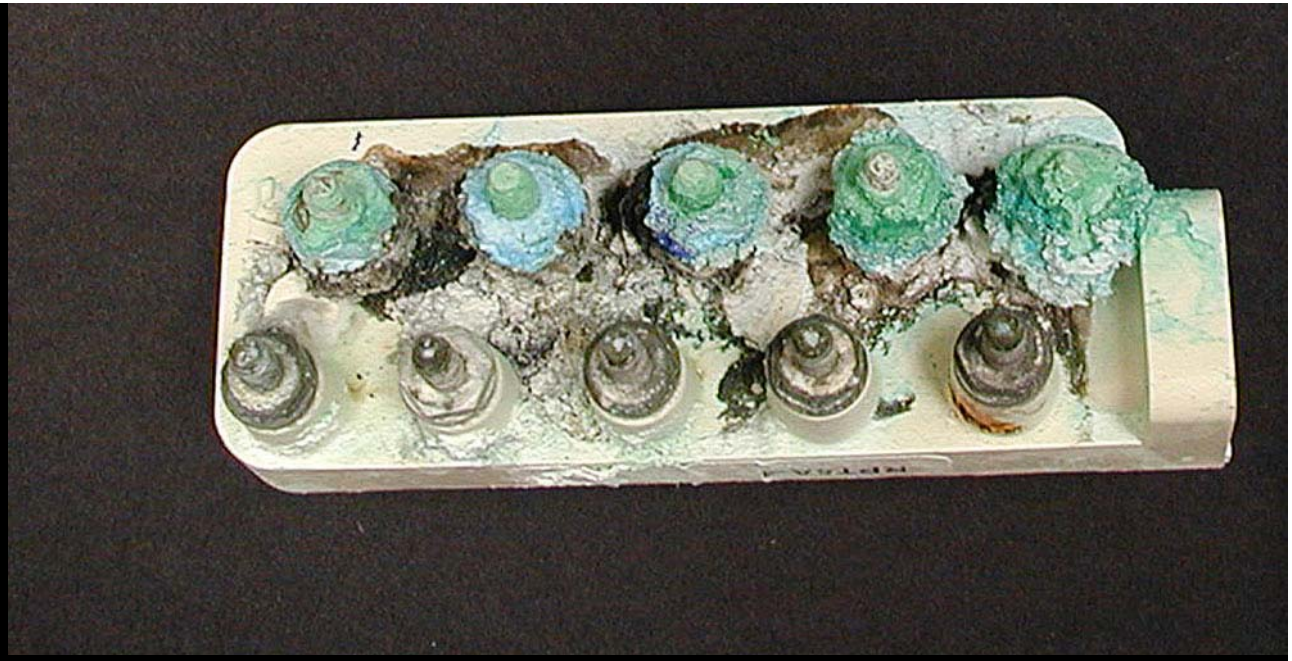


Blow-dry using RAINBOW AIR (#4028). For best results when using RAINBOW AIR, attach the plastic extension tube. Use short “bursts or puffs” of AIR to blow out moisture, etc. Do NOT shake the can or spray inverted or upside-down. Also, if the protector unit/screw is contaminated, it may be necessary to replace the protector unit.



Once the OSP equipment has been cleaned, spray the entire equipment surface with STORMY® ALL WEATHER CORROSION PROTECTOR (#4401) OR (#FR4401) for Canada. Make sure all metallic surfaces and connections have been saturated with STORMY® to prevent any further corrosion. STORMY® will displace all moisture/water present in the equipment and leave a protective film that will last for years.

UNTREATED BLOCK



Both of these terminal blocks were subjected to the same salt water conditions. One was treated with STORMY® and one was not treated.

TREATED BLOCK WITH STORMY® ALL WEATHER CORROSION PROTECTOR

Summary for Rainbow's Corrosion Prevention and Equipment Restoration Process

To begin restoring equipment that has been flooded or contaminated by salt water, follow these procedures:

1) For OSP equipment that has been flooded, use a commercial power washer to blow out heavy contamination such as mud, silt, and other debris.

2) After pressure washing or for light contamination, use CORROSION WASH (#4495) to clean corrosion, moisture, and remaining contaminants from the equipment.

3) Use the MULTI-PURPOSE TERMINAL BRUSH (#4494) with CORROSION WASH (#4495) to assist in removing heavily encrusted corrosion and contamination.

4) Use PRECISION CLEANER (#41030)to clean the protector wells on fault protected equipment.

5) Use RAINBOW AIR (#4028) to blow-dry the protector wells and other areas.

6) Use STORMY® ALL WEATHER CORROSION PROTECTOR (#4401) to spray the entire equipment surface.

By using Rainbow’s Corrosion Prevention and Equipment Restoration Process, the telecommunication pathway is restored and protected from corrosion resulting in satisfied customers.

RAINBOW TECHNOLOGY

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