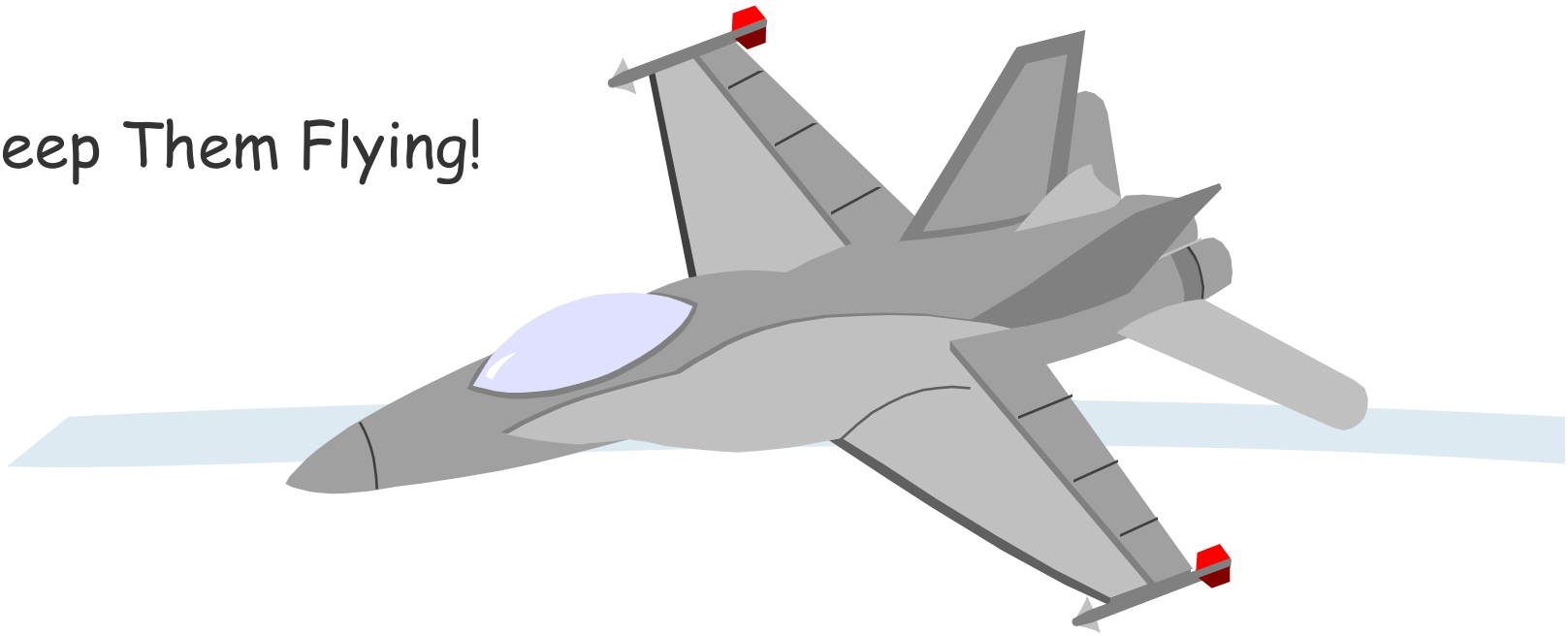


Aviation Fuel Quality Control

Keep Them Flying!



An Overview of the Filter Membrane Test to ASTM D2276

By Gammon Technical Products, Inc.

LOOKING FOR CHANGES

The Key to Quality Control is to take note of *anything* out of the ordinary. Even if the results are still within “acceptable” limits, a sudden change to any characteristic or the performance of any piece of equipment may indicate a serious problem

Testing and Sampling is Meant to Find Little Problems Before They Become Big Ones!

Dirt In Aviation Fuel

What is A Micron?

1/Millionth of a Meter

Less than 1/70th the Thickness of a Hair

MUCH smaller than the human eye can see

A Modern Coalescer Element Will Remove About
99% of Particles over 1/3 Micron

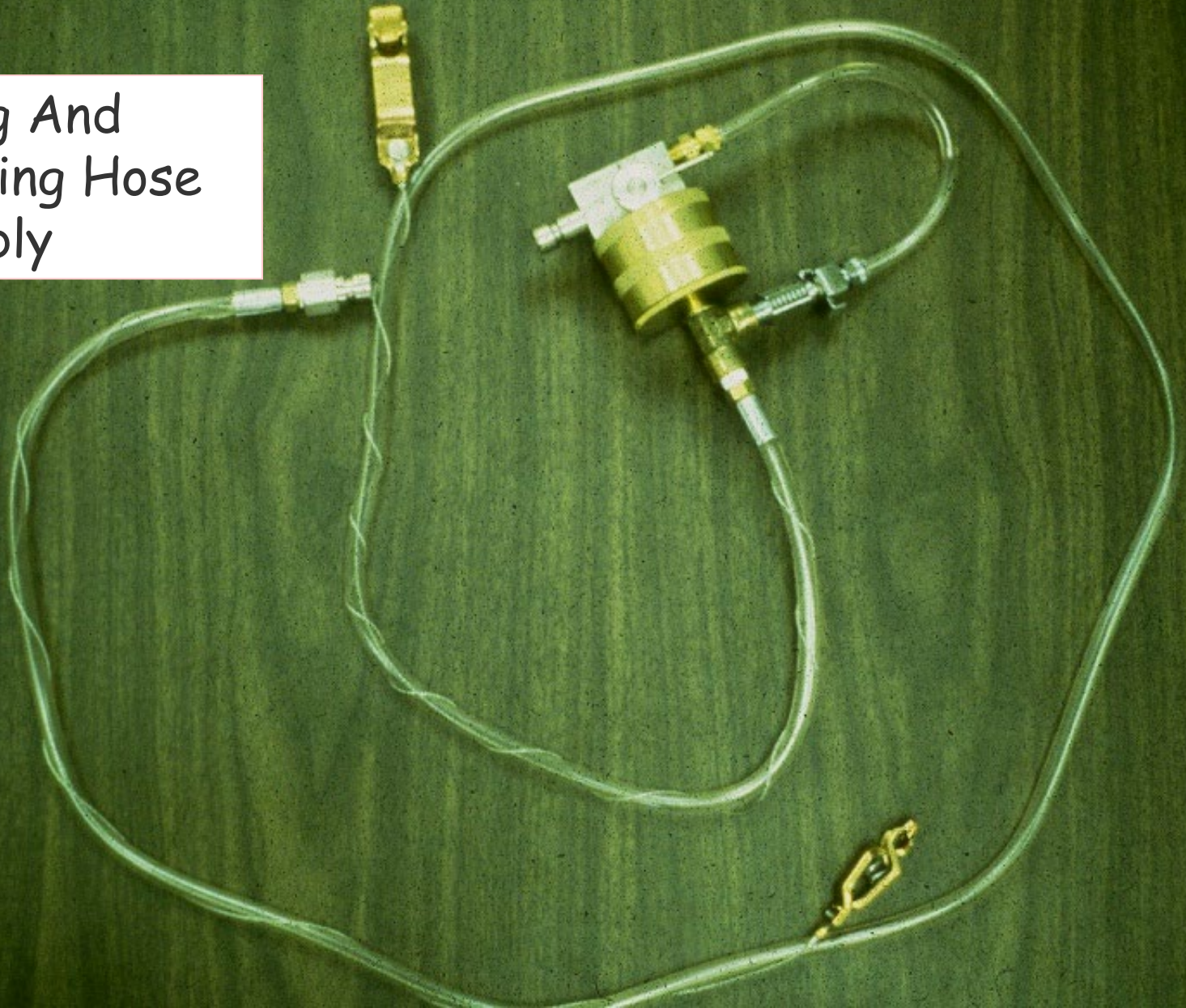
MiniMonitor
Particulate
Detector to
ASTM D2276

Includes ASTM Color
Rating Book

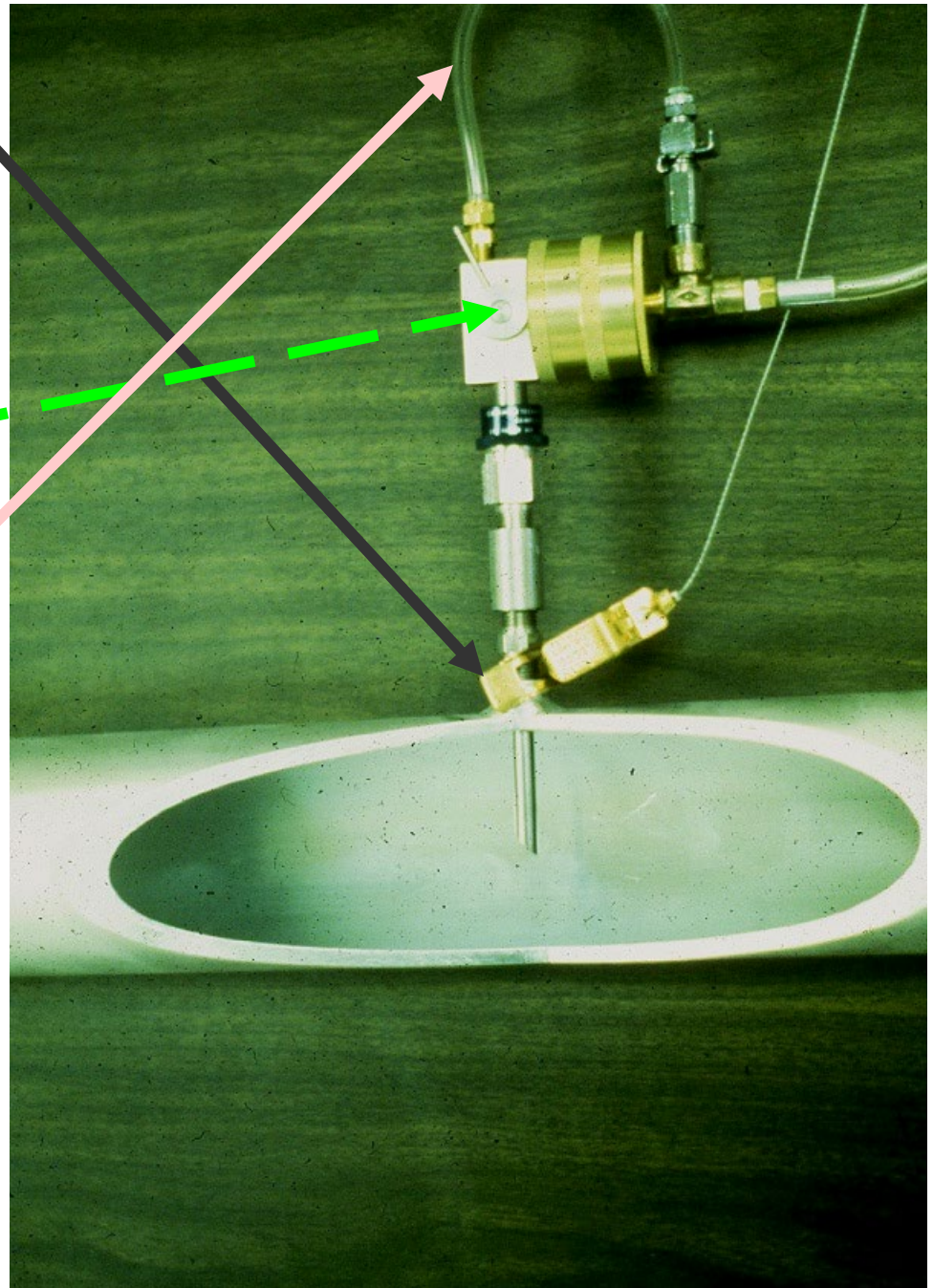
Our New,
Improved Case



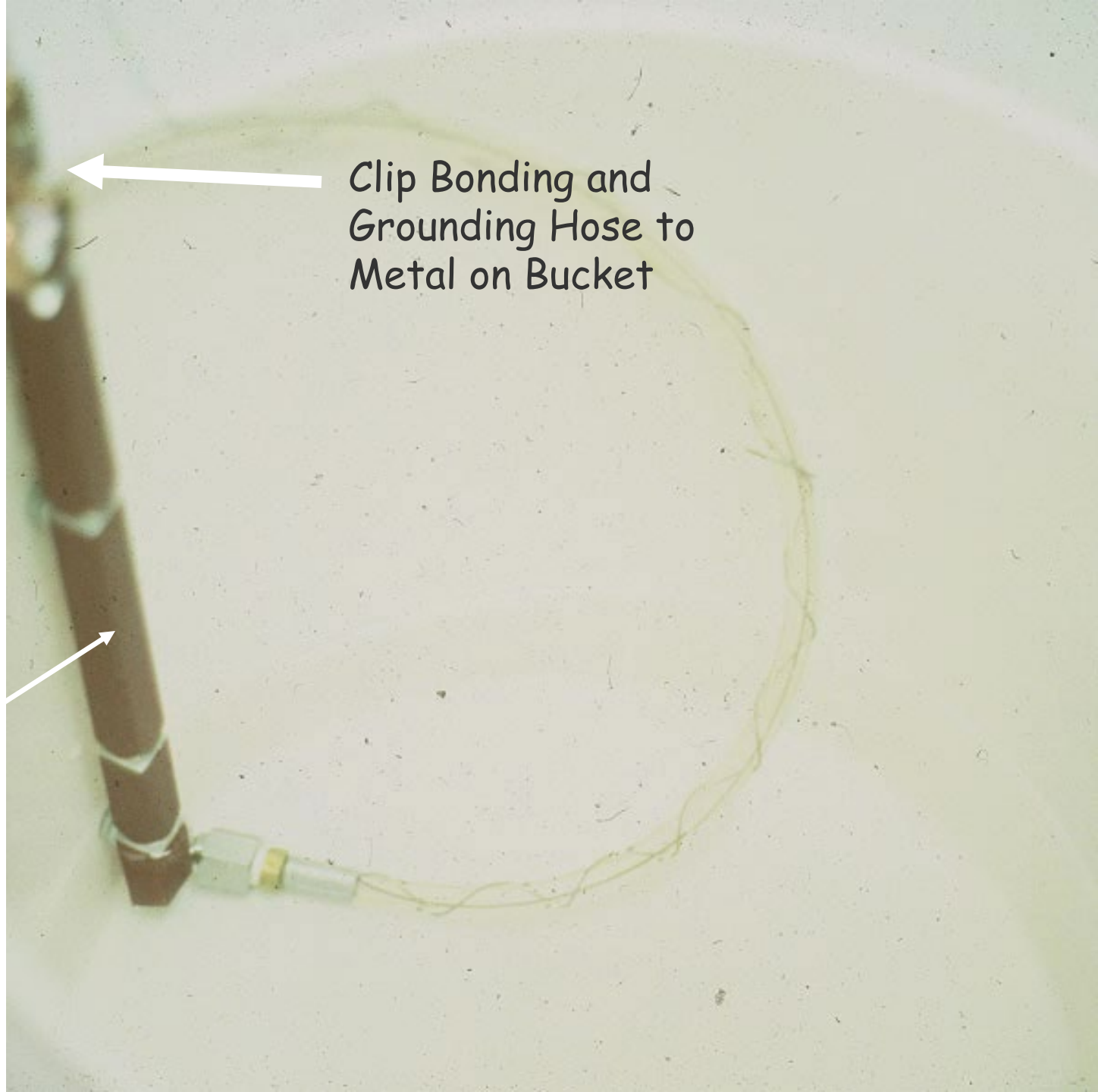
Bonding And
Grounding Hose
Assembly



- A. Bond the Tester To the Pipe itself
- B. Establish System Flow, Not Just Pressure
- C. Turn The Valve Lever to the Flush Position
- D. Flow $\frac{1}{2}$ to 1 Gallon Through the Bypass Hose to the Bucket

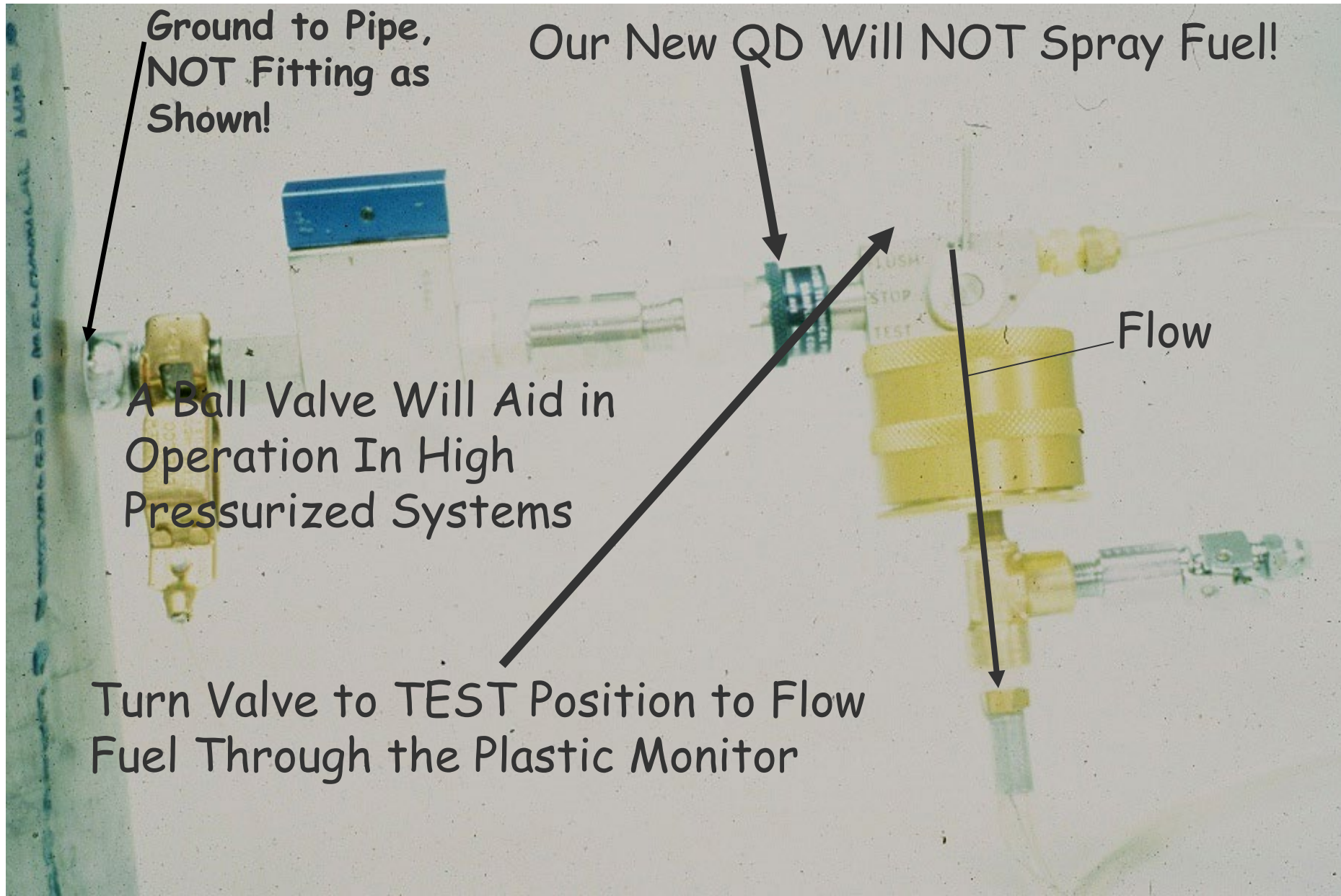


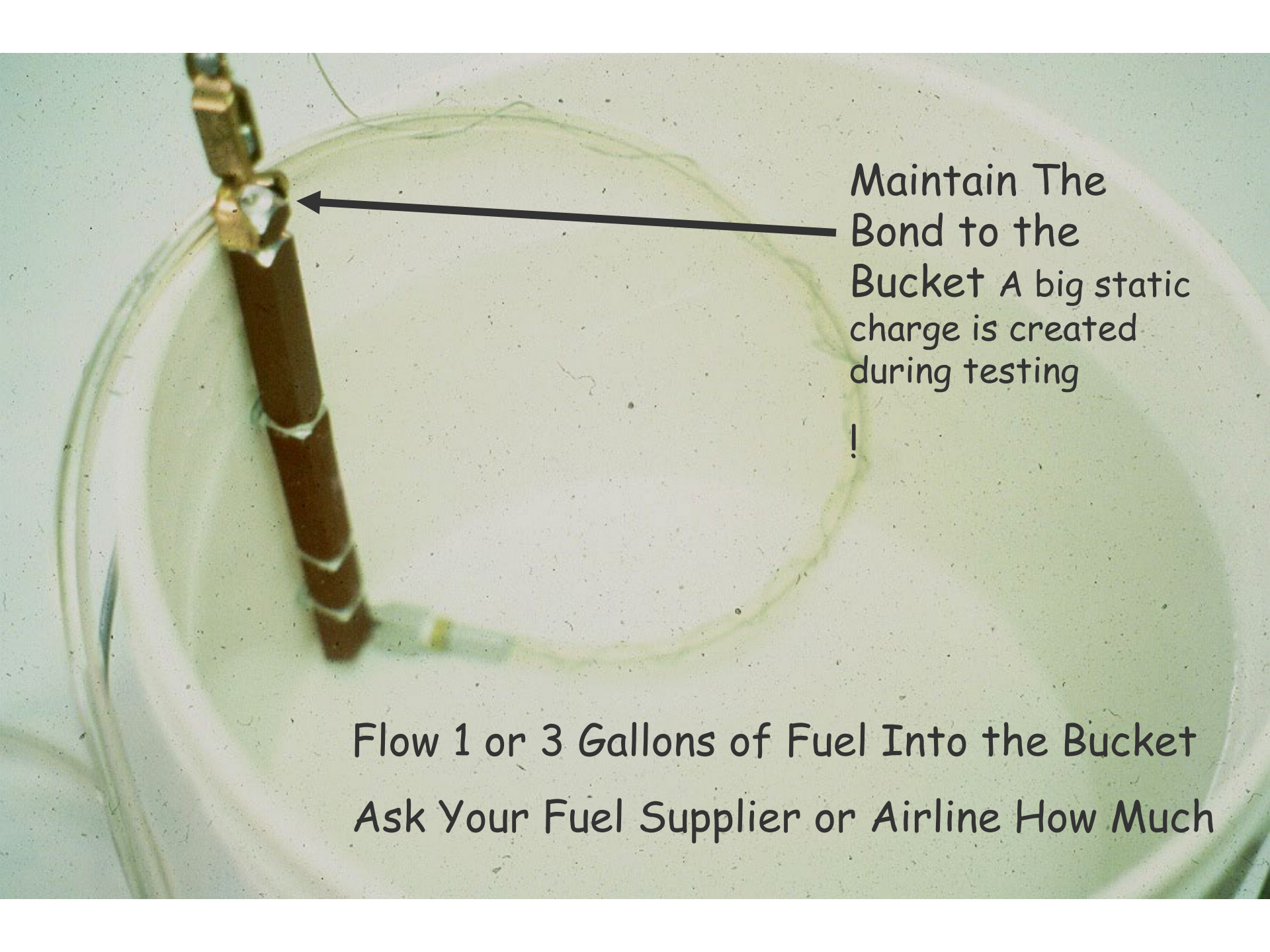
If You Use a
Plastic Bucket
for Testing,
It **MUST**
Have a
Bonding and
Grounding Bar



Clip Bonding and
Grounding Hose to
Metal on Bucket

Running the Filter Membrane Test



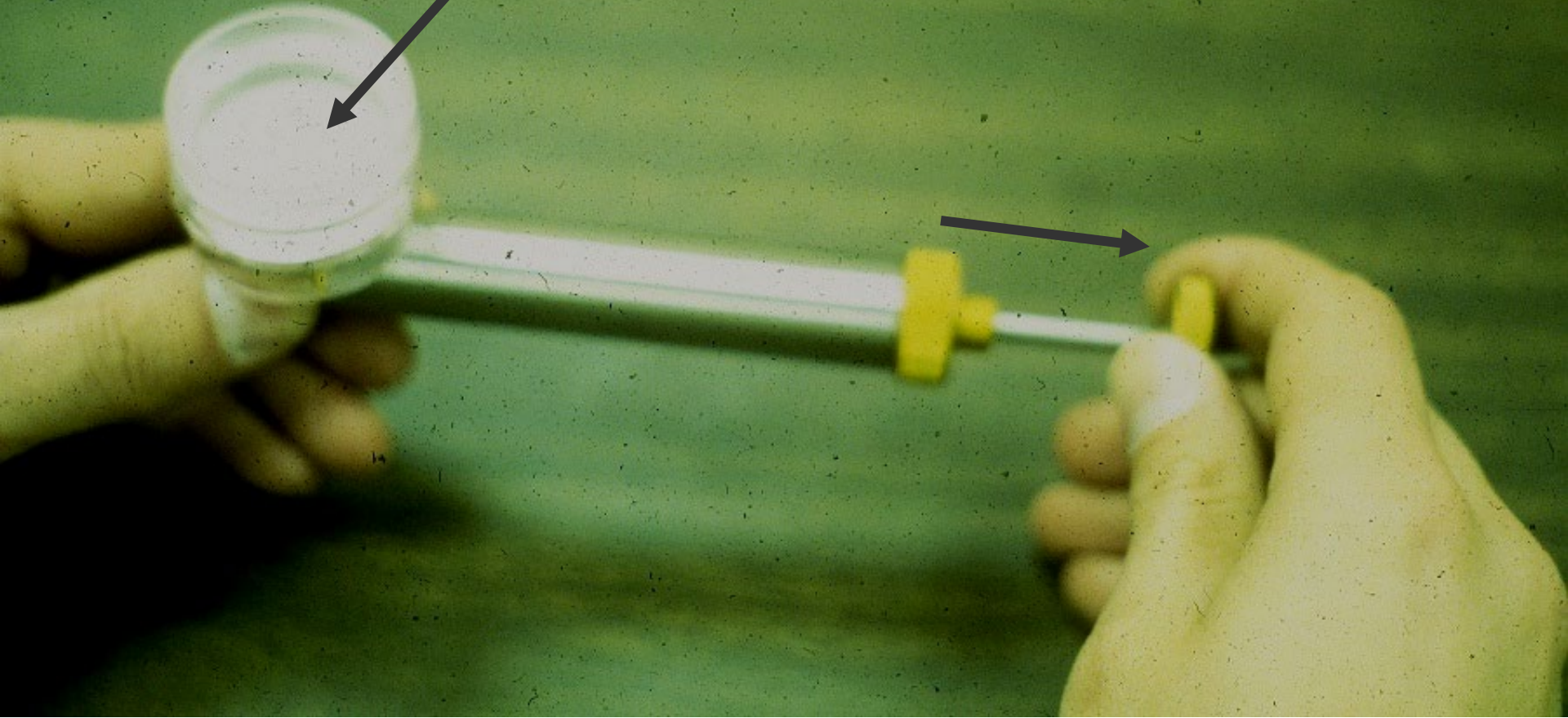


Maintain The
Bond to the
Bucket A big static
charge is created
during testing

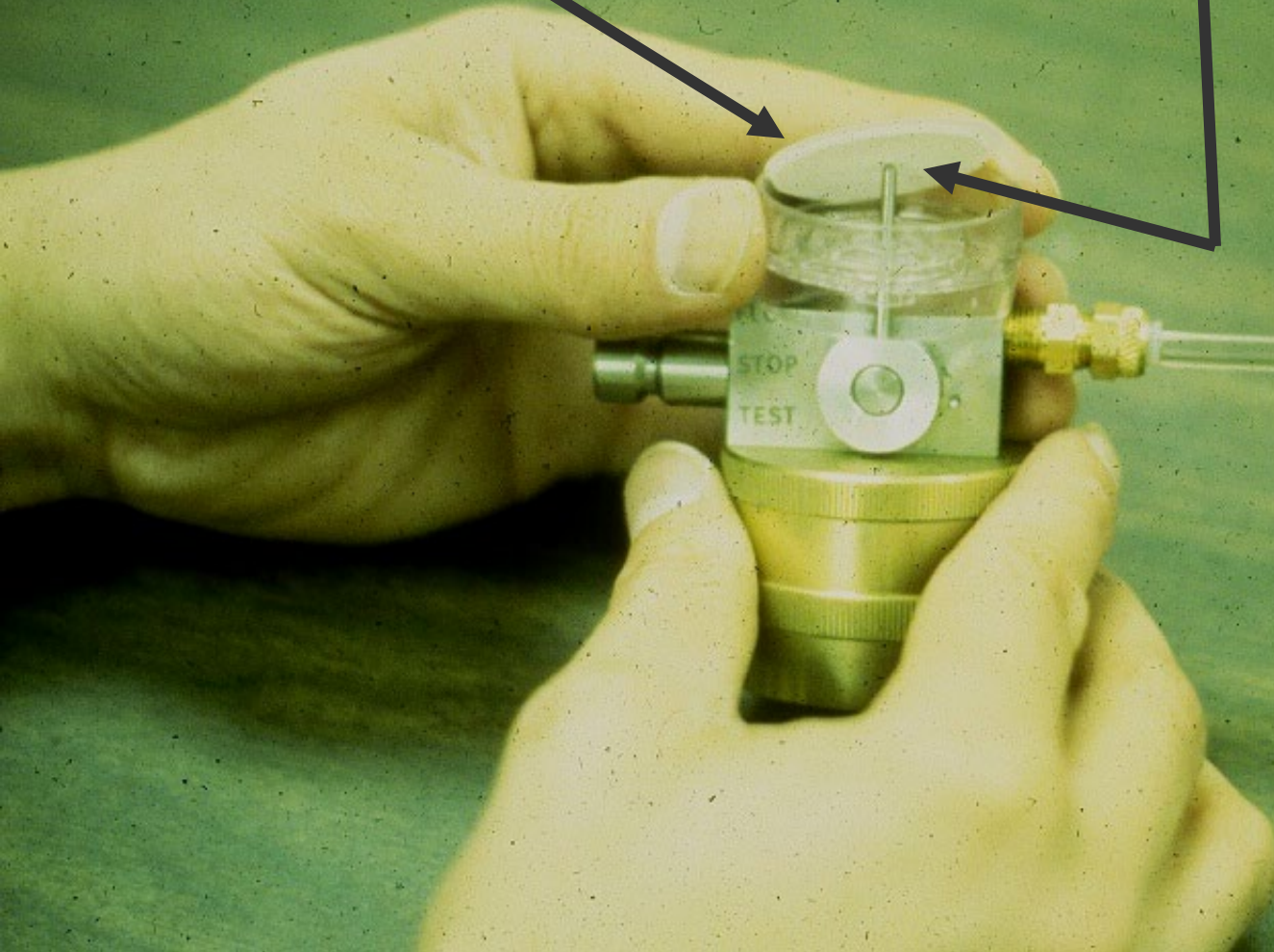
!

Flow 1 or 3 Gallons of Fuel Into the Bucket
Ask Your Fuel Supplier or Airline How Much

Draw Excess Fuel From Monitor - Observe the Membrane for Unusual Color or Particles



Remove the Membrane - Dispose of
the Thicker Backup Pad

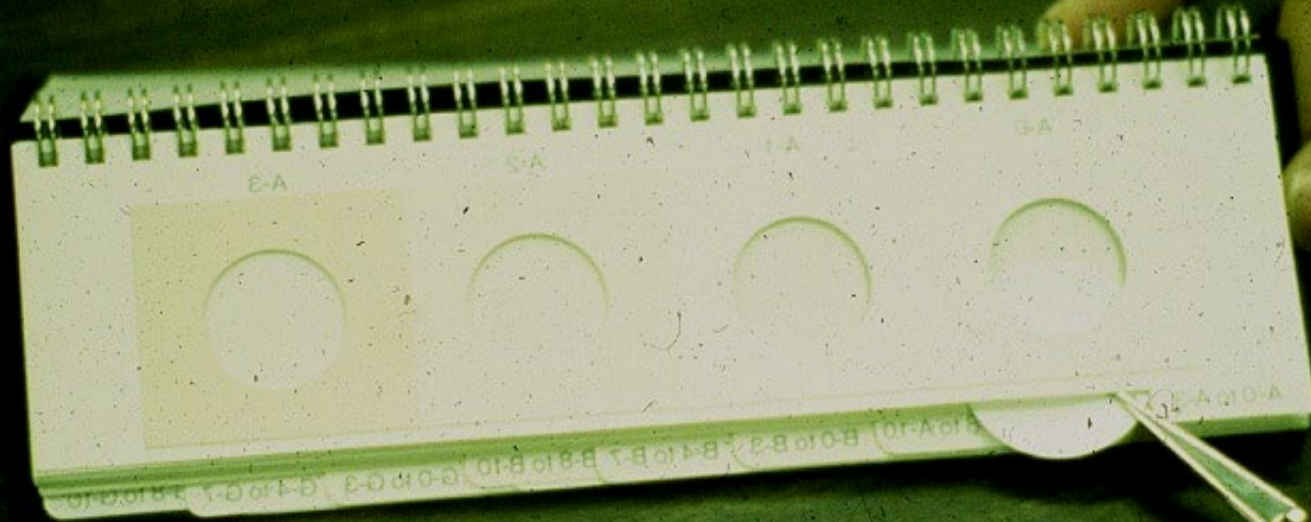


Weight is the Lab Test and Color is the Field Test.
LOOK FOR CHANGES!



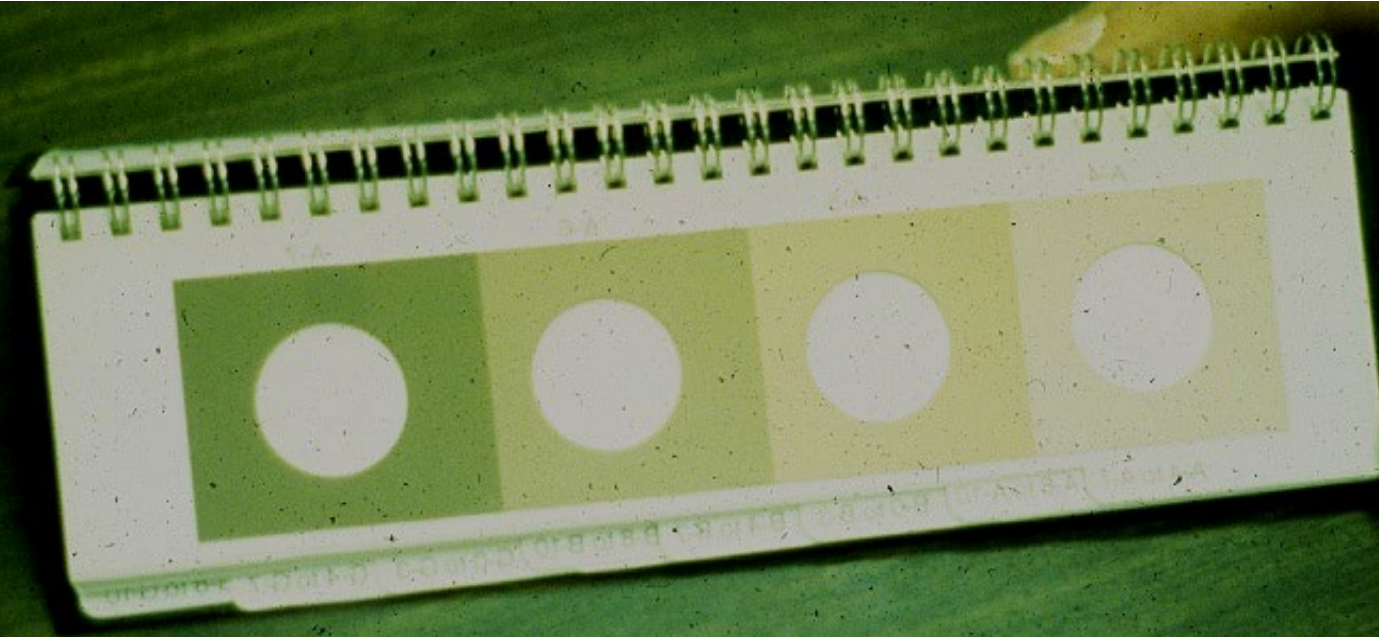
Most Companies evaluate DRY membranes only

Undated Books or Books Dated 1981 Or Older Are No Longer Approved Under ASTM



Colors Do Not Indicate Weight.

"A" Scale is Red, "B" is Brown and "G" is Gray/Black. A Color Between a 2 and a 3 is a 2.



Evaluation Of Membranes

(Rule of Thumb for 1 gallon test)

On Dry Membrane Color Should Be Less Than a "3". A 2 Is Cause For Concern

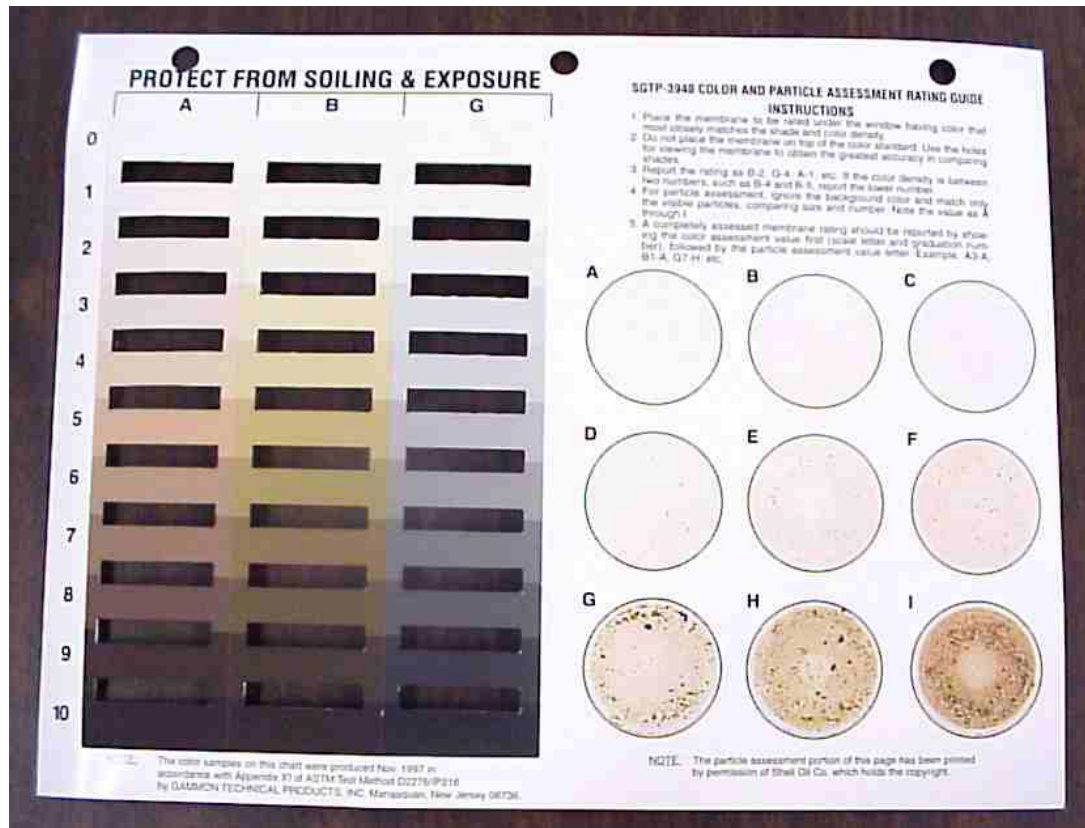
If You See a Membrane Different From Your Usual Scale

(For Example, You Usually Get an "A-2" and Suddenly Get a G-2) This May Indicate A Serious Contamination Problem

If You Get a Sudden Dark Membrane, Run a Test Before and After the Filter. Look For a Change.

You Can Run The Test With Two Membranes. If The Bottom Membrane Has Color, This is "Color Bodies".

The ATA Standard Color Chart With Particulate Chart



Replacement Plastic Monitors



Replacement
Membranes

Save Money

Reload Your Old
Plastic Monitors

