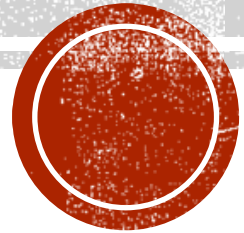
FIELD / CONSTRUCTION



Randall D. Hand
Training Coordinator
Alabama Public Service Commission

Revised 2/7/2012

NOTICE OF CONSTRUCTION

OPERATOR NAME: _____

DISTRICT: _____

NOTIFICATION DATE: _____, CONTACT: _____ PH: _____

CONSTRUCTION LOCATION: _____

_____

CHECK (√) WHERE APPROPRIATE.

CONSTRUCTION PERFORMED BY: OPERATOR _____ , or CONTRACTOR _____

CONTRACTOR NAME: _____ , or UNKNOWN AT THIS TIME _____

TYPE MATERIAL: STEEL _____ , or POLYETHYLENE _____

RELOCATION _____ , REPLACEMENT _____ , or EXTENSION _____

APPROXIMATE PROJECT LENGTH: _____ Feet of main or pipeline.

PIPE SPECIFICATIONS:
O. D. _____(in.) , Wall t _____(in.) , or SDR _____(P. E. only) , SMYS (Steel only) _____

CLASS LOCATION: 1 _____ , 2 _____ , 3 _____ , 4 _____

MAOP _____(spig) TEST PRESSURE _____(psig) , air _____ , or water _____

Do you consider this line to be a distribution main _____ , or a transmission pipeline _____?

ANTICIPATED STARTING DATE OF CONSTRUCTION: _____

DIG SAFELY, CALL FOR A LINE LOCATE 48 HOURS BEFORE EXCAVATING!

PLEASE SUBMIT THIS NOTICE 2 WEEKS PRIOR TO CONSTRUCTION:

RETURN TO:

ALABAMA PUBLIC SERVICE COMMISSION
GAS PIPELINE SAFETY
P O BOX 304260
MONTGOMERY, AL 36130-4260
OR

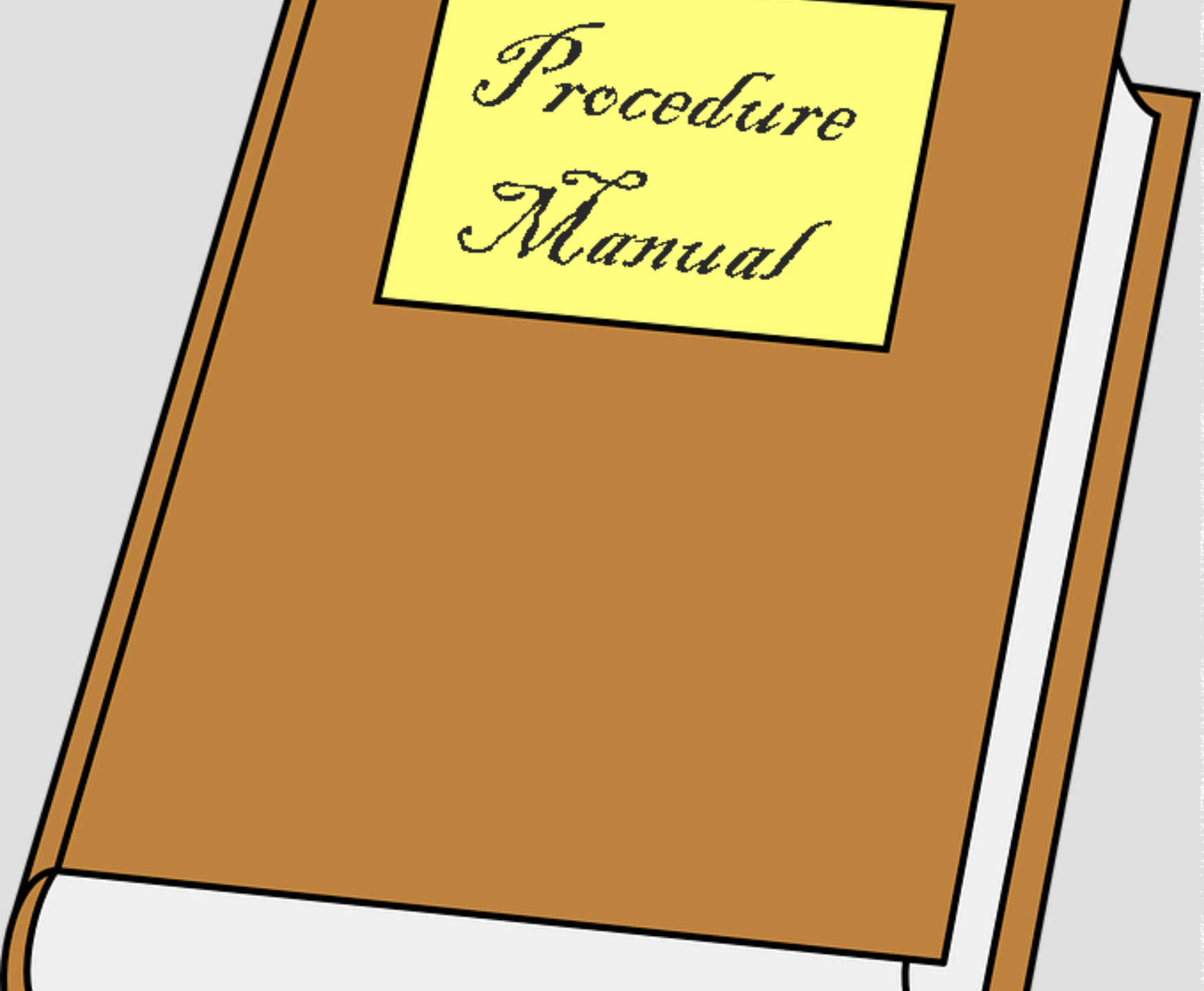
NOTICE OF CONSTRUCTION FORM

Notification of any pipe being installed, 1000 ft or more this includes mains and services.

Must be made at least two weeks prior to starting project.

Must contain a valid address or street intersection.

PROCEDURES



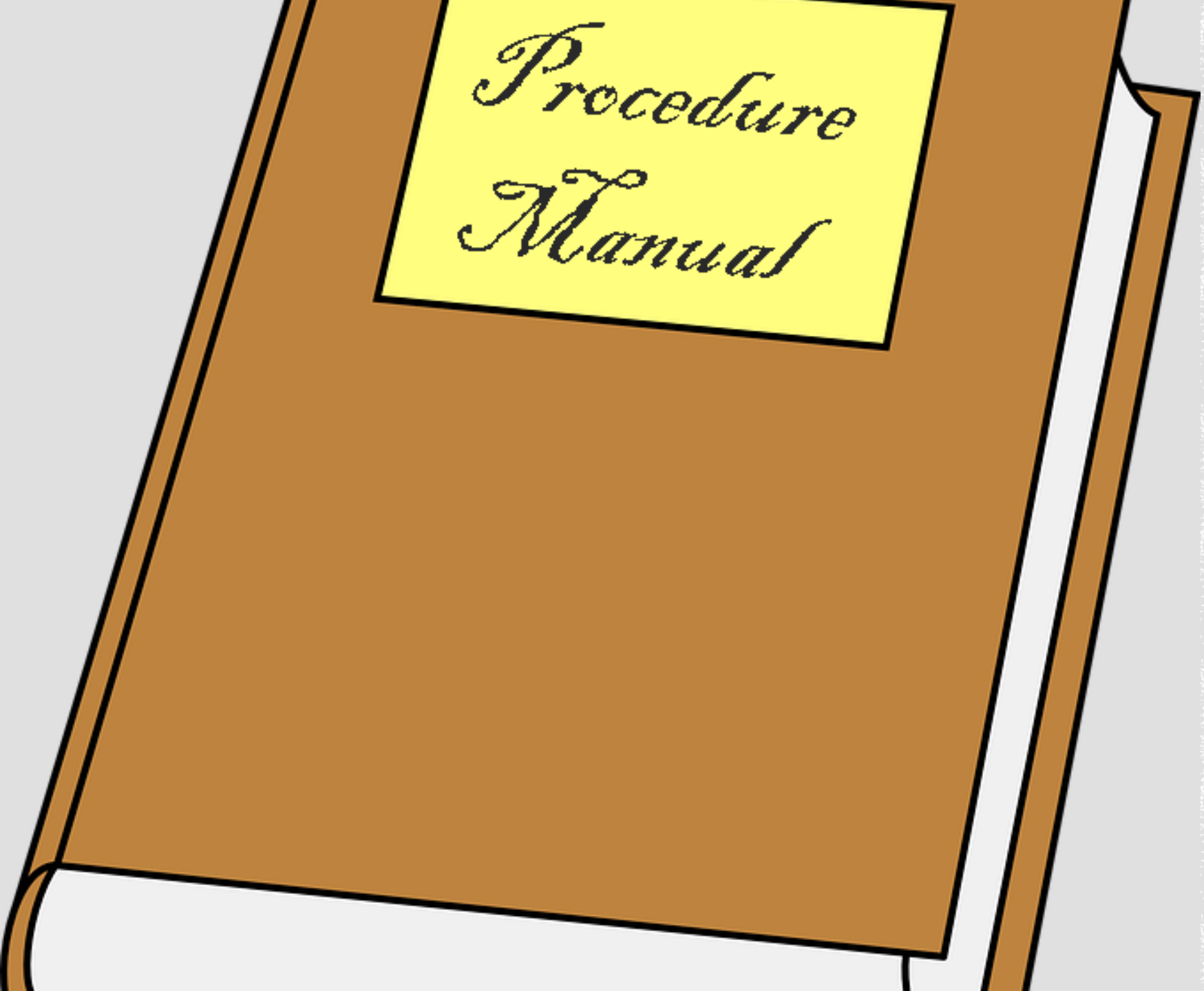
PROCEDURES

Common Issues that we are finding on job sites.

1- Procedures must be on the job site.

2- Procedures must be accessible.

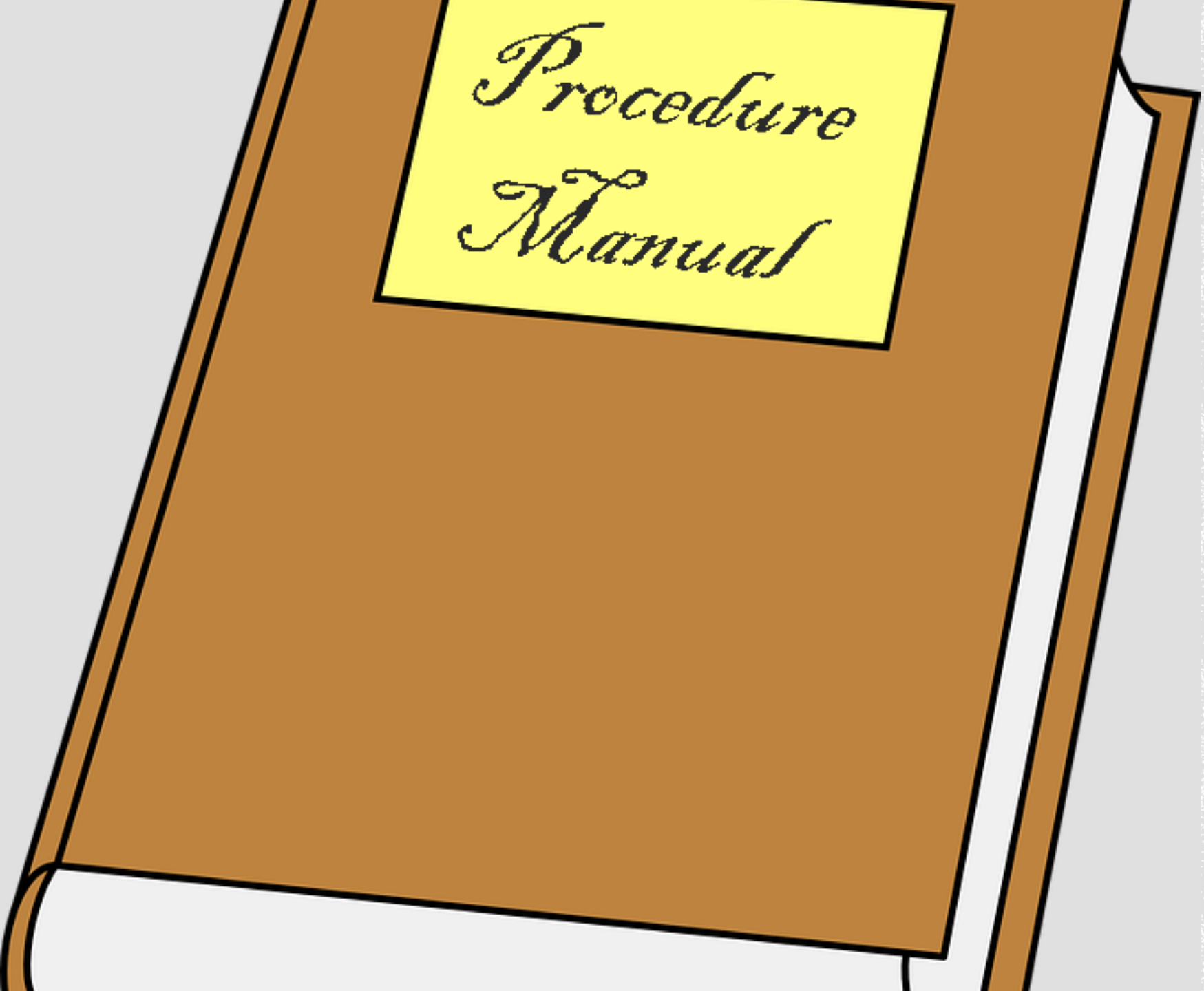
3- Individuals must know how to take the Manual and locate specific Procedures.



PROCEDURES

Procedures must be on the job site

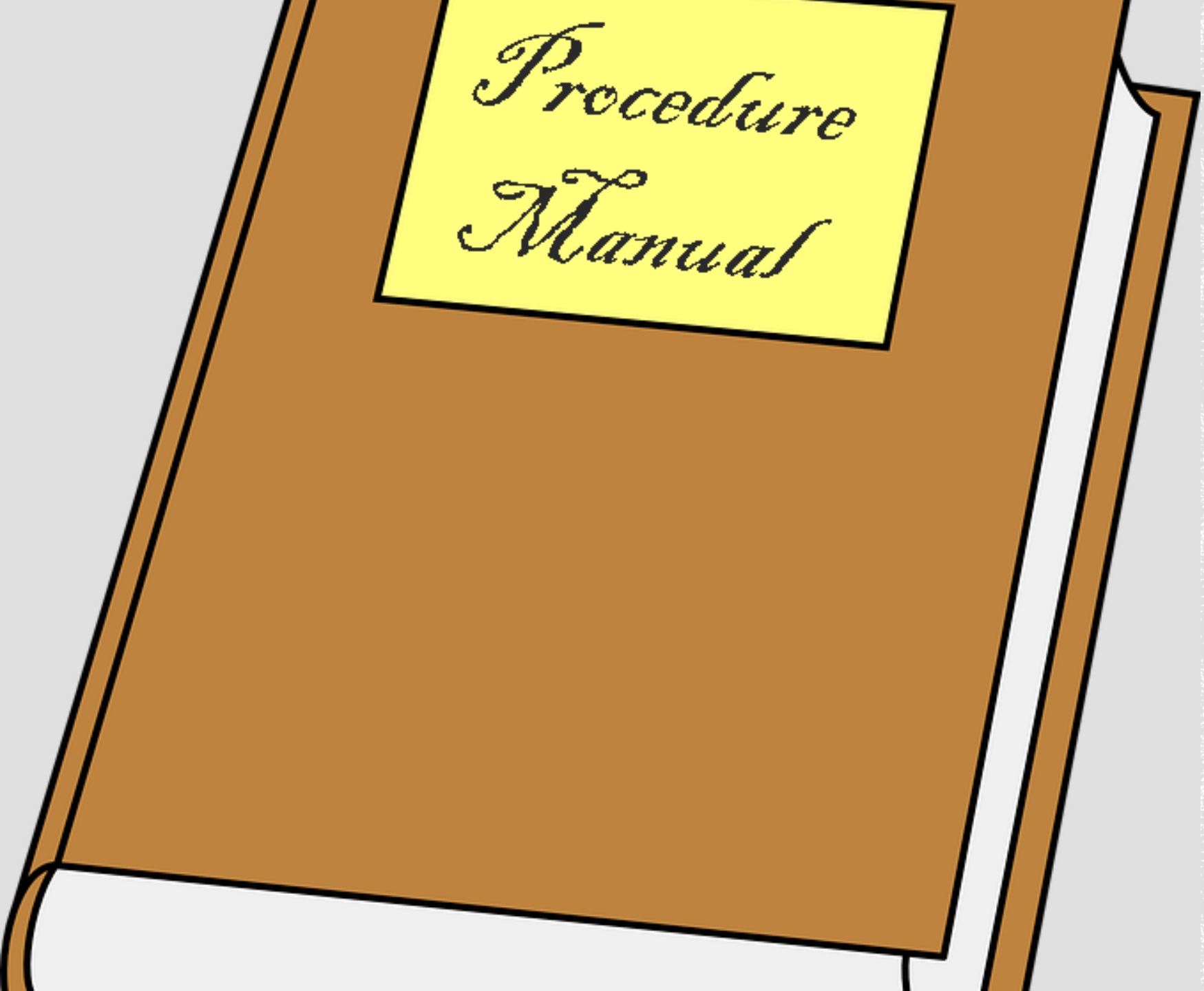
192.605 (a) … appropriate parts of the manual must be kept at location where operations and maintenance activities are conducted.



PROCEDURES

Manual can be web based/ cloud based etc.

If it is kept electronically, you must know how to access it. You can have written instructions to "walk" you through the process, but you can not call "the office" and get them to help you. This is not acceptable you must be able to access it on your own in the field.

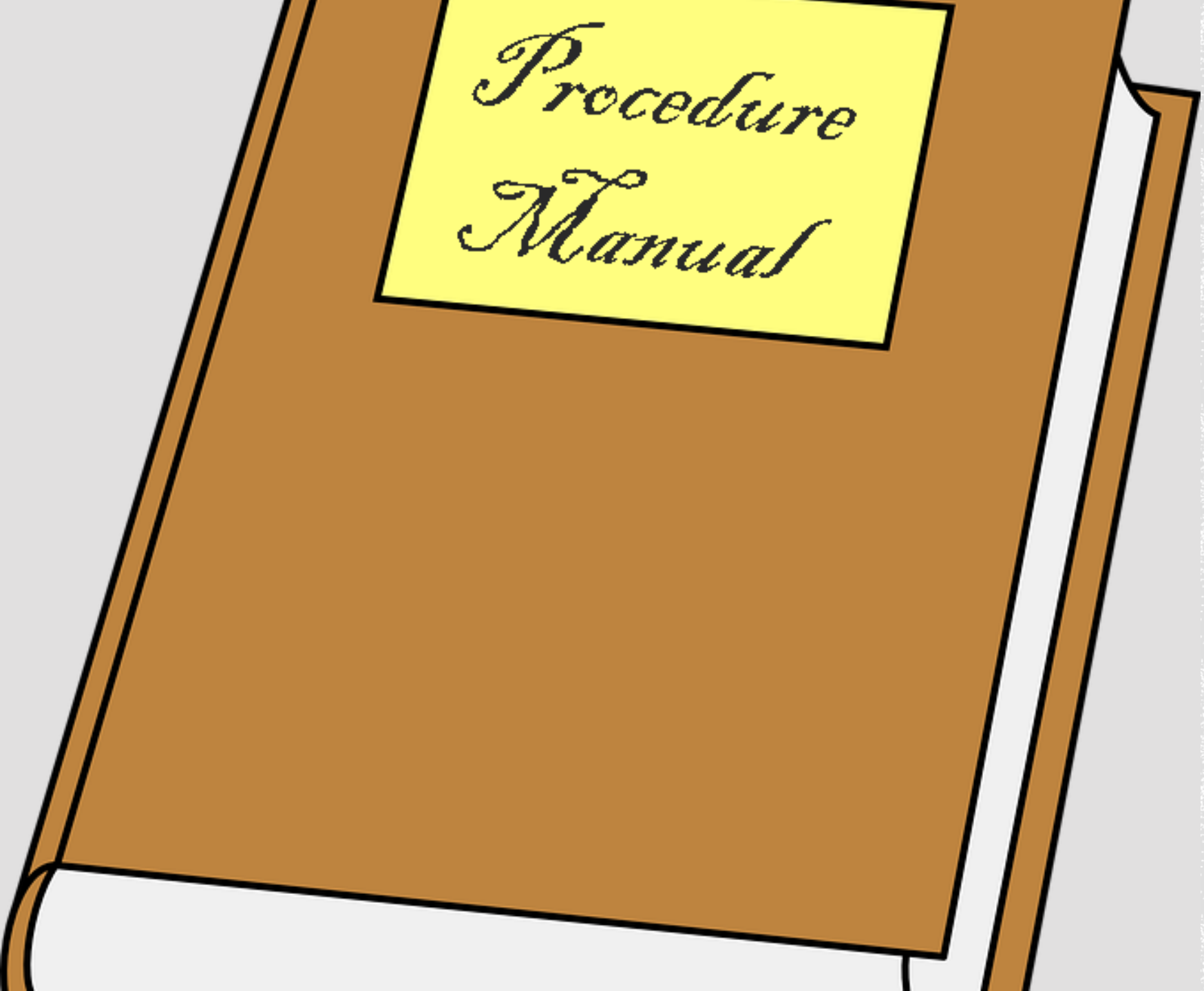


PROCEDURES

Procedures listed in the manual that are being performed must be followed as they are written.

If procedure is not being followed as written, it can result in a violation .

Can not skip a section because "it doesn't work that way" or "we don't do it that way"



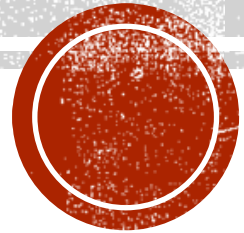
PROCEDURES

If procedures are found to be irrelevant , incorrect, outdated etc.

Let someone know!

There is a process to change them and it is not complicated.

ON-SITE INSPECTORS

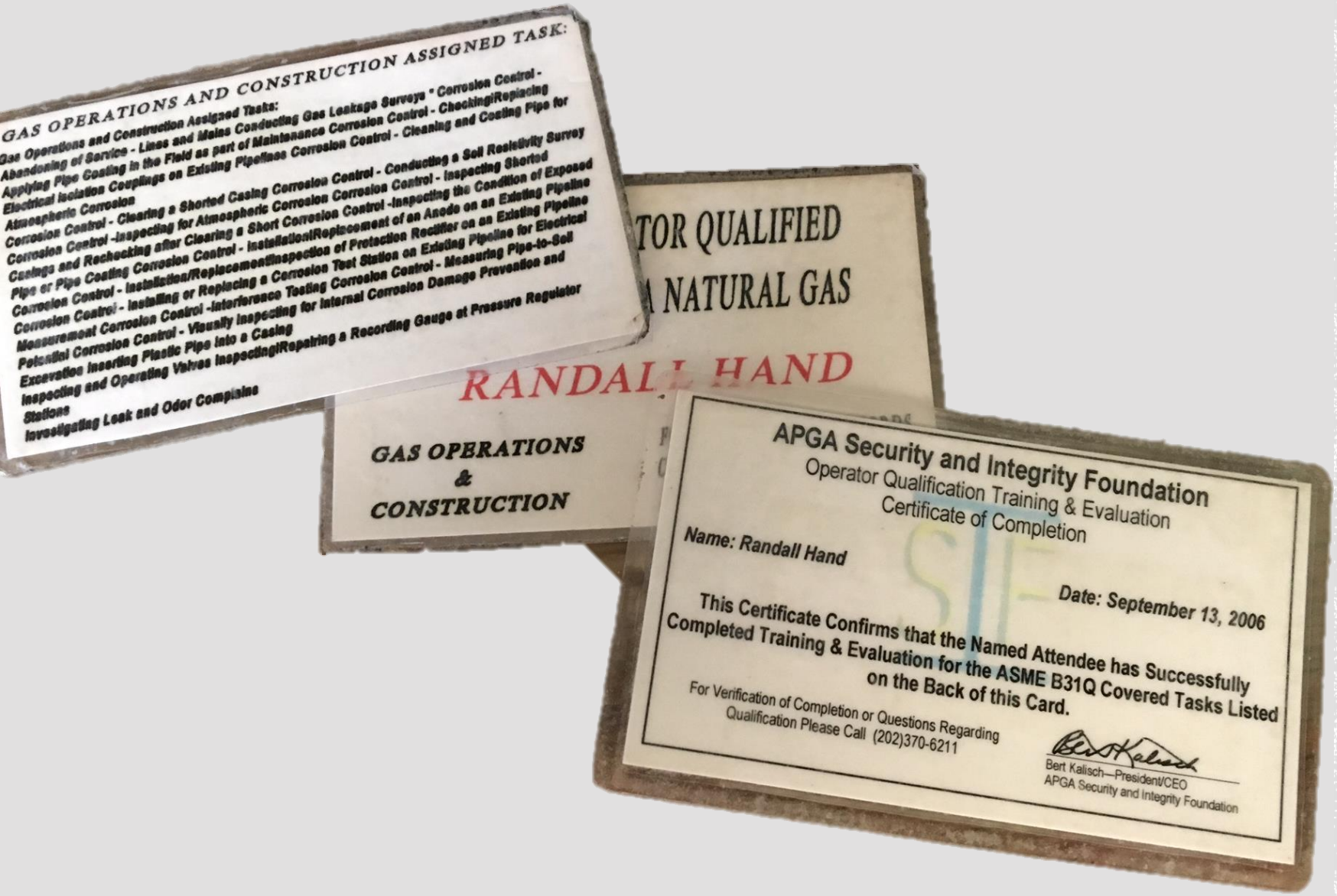


SIMPLE INSPECTOR REQUIREMENTS

Your chosen inspector should have

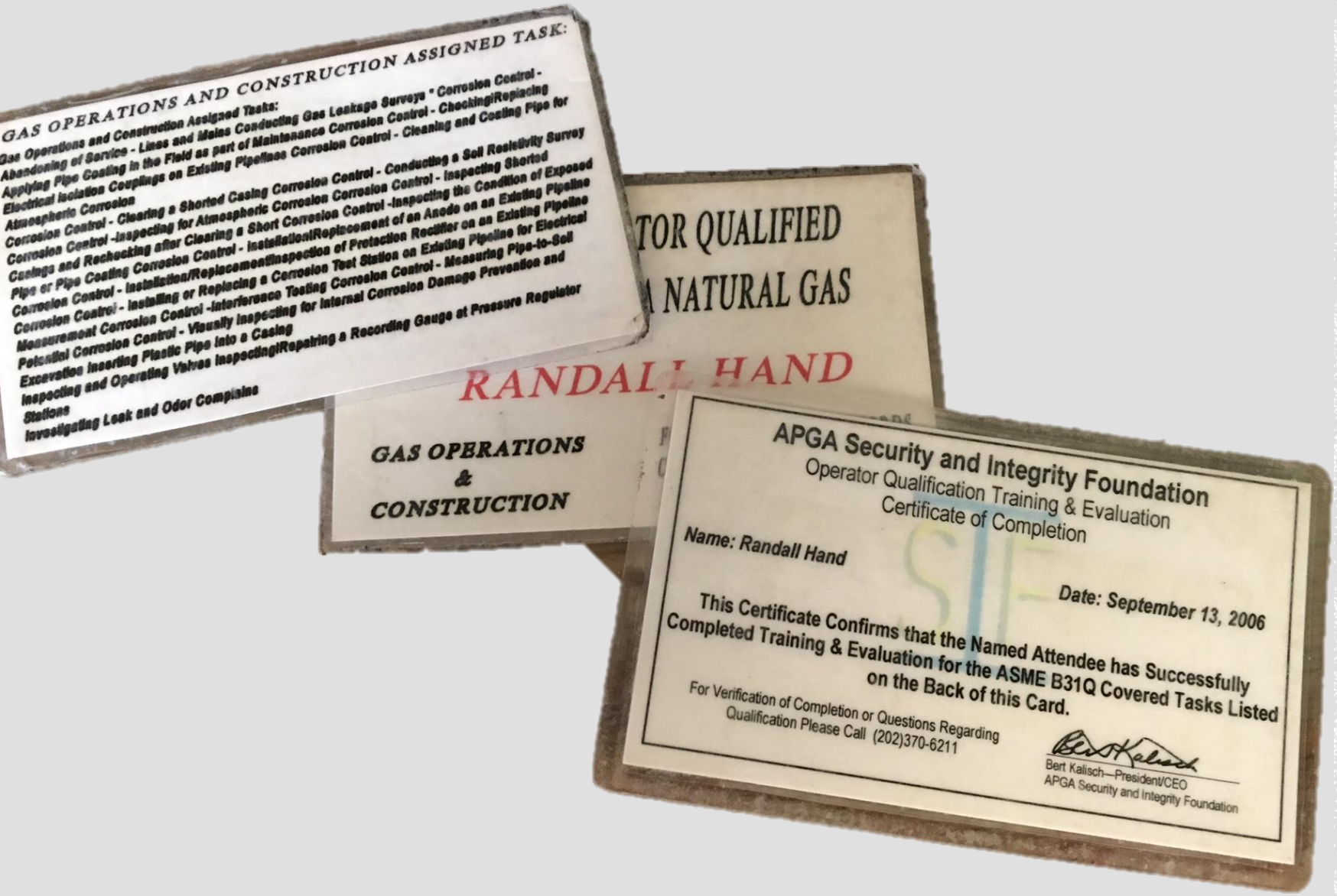
- The Procedures based on the task that they are inspecting.
- Knowledge of what they are looking at/for !

PROOF OF QUALIFICATION



Qualification proof should be kept on the job site. Each individual performing covered task must have proof of qualification.

PROOF OF QUALIFICATION



Qualification proof should have task that the individual is covered to perform

Date that Qualification was obtained and requalification date.

PROOF OF FUSION QUALIFICATION

QUALIFICATION OF JOINING POLYETHYLENE

CERTIFIES THAT Randall D. Hand

PROCEDURE: UNV-2708B, UNV-2708SA, UNV-2708SO, UNV-4710B, UNV-4710SA, UNV-4710SO, CENTRAL, FRIATEC, MTDTRIFUSION

QUAL. NO: 14344

COMPLETED REQUIREMENTS FOR QUALIFICATION ON GAS PIPE FOR:

PE2708/4710 RESIN PPI VALIDATED

☑ BUTT FUSION ☑ SADDLE FUSION

☑ SOCKET FUSION ☑ ELECTROFUSION

☐ MECHANICAL JOINT

4/7/2017 DATE

ADMIN, GAS PIPELINE SAFETY

Proof of qualification for fusion, MUST BE WITH THE INDIVIDUAL doing the fusing.

Fusion Qualification must be done at least once every 12 months not to exceed 15 months

PROOF OF FUSION QUALIFICATION

QUALIFICATION OF JOINING POLYETHYLENE

CERTIFIES THAT Randall D. Hand

PROCEDURE: UNV-2708B UNV-2708SA
UNV-2708SO UNV-4710B
UNV-4710SA UNV-4710SO
CENTRAL FRIATEC
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☑ SOCKET FUSION ☑ ELECTROFUSION

☐ MECHANICAL JOINT

4/7/2017 ADMIN, GAS PIPELINE SAFETY

DATE

The fusion qualification that the PSC provides is ONLY good for

UNIVERSAL PROCEDURES

You can qualify your own people

192.285

PROOF OF FUSION QUALIFICATION


QUALIFICATION OF JOINING POLYETHYLENE

CERTIFIES THAT Randall D. Hand

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If you are using different parameters for fusing-

Temperature, Heating Times, Bead Size etc,

PROOF OF FUSION QUALIFICATION


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The fusion qualification that the PSC provides is ONLY good for

UNIVERSAL PROCEDURES

If you are using different parameters for fusing-

Temperature, Heating Times, Bead Size etc,

This card is NOT valid.

If you are using parameters different than the procedures you provide us and you DO NOT have proof of qualification under those procedures.

PROOF OF FUSION QUALIFICATION


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4/7/2017 ADMIN, GAS PIPELINE SAFETY

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Temperature, Heating Times, Bead Size etc,

This card is NOT valid.

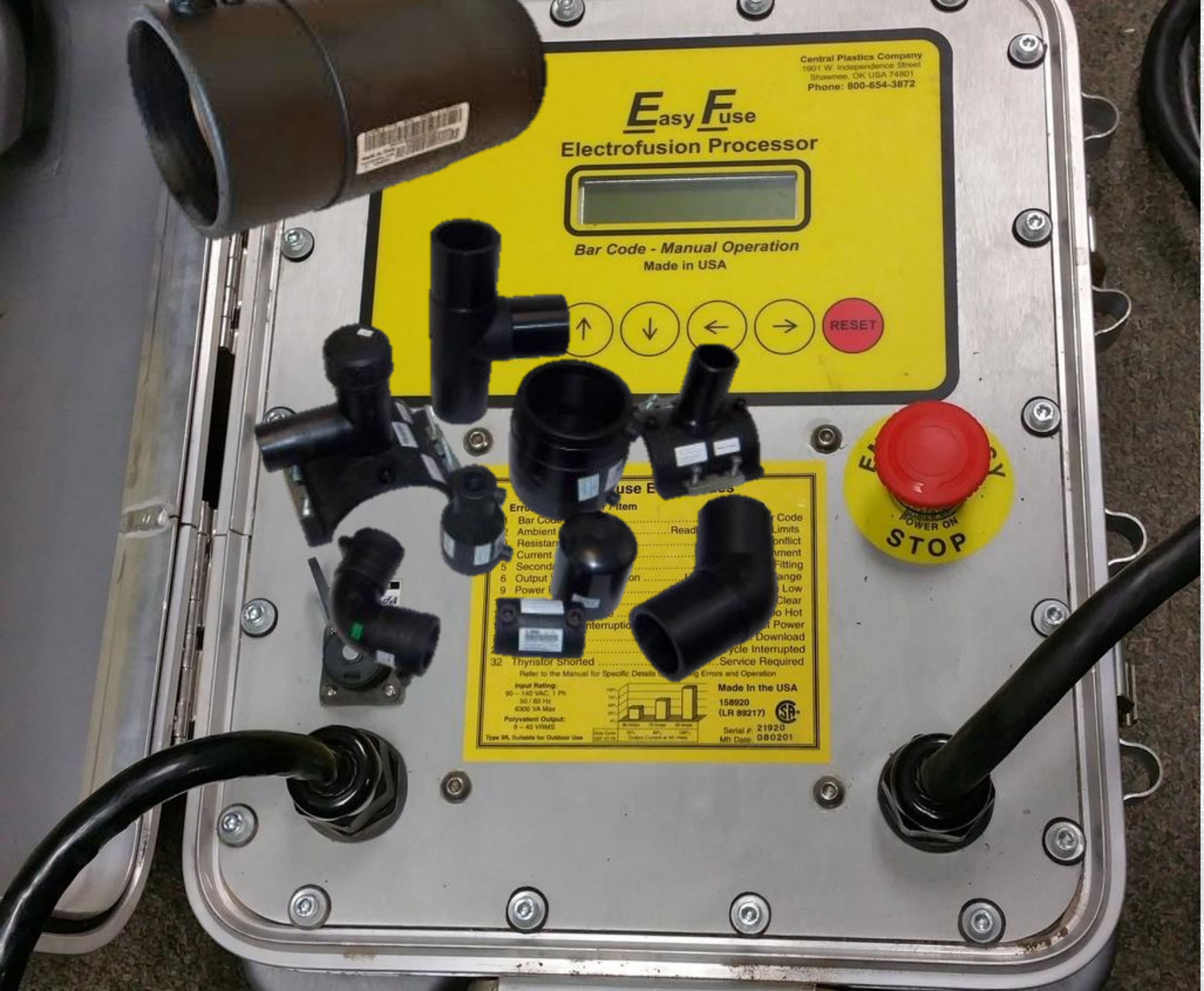
If you are using parameters different than the procedures, you provide us and you DO NOT have proof of qualification under those procedures.

You may receive a violation and all of the fusions that you have done may be removed from where they were installed.

HYDRAULIC FUSION

- Hydraulic Fusion Procedures are basically the same as manual fusion procedures.
- Correct Fusion Pressures and Temperatures MUST be followed.
- Machines MUST be in proper working condition.
  1. No fluid leaks
  2. Gauges must work
  3. Proper Pipe bushings installed
  4. SET UP PROPERLY !!!

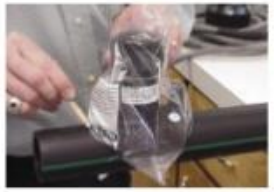
HEATER PLATES CAN NOT BE DAMAGED IN THE PIPE CONTACT AREA.



ELECTROFUSION

Electrofusion Joining Procedures for Sidewall/Saddle Fittings
(for use with under-clamp on 1-1/4" - 6" fitting bases)

1.) Identify the location of the fitting to be installed on the pipe and mark the area with a non-greasy marker.



2.) Check the pipe surface for any embedded debris that may cause damage to scraping tools making sure that the outer pipe surface is clean and free of any dirt or mud that could recontaminate the scraped pipe surfaces.

3.) Scrape the area to be fused with an approved scraping tool. Make sure that the appropriate amount of material is removed approx. .007" to .0010".

Do not use abrasives, grinding wheels, or other devices that do not cleanly remove the contaminated material.

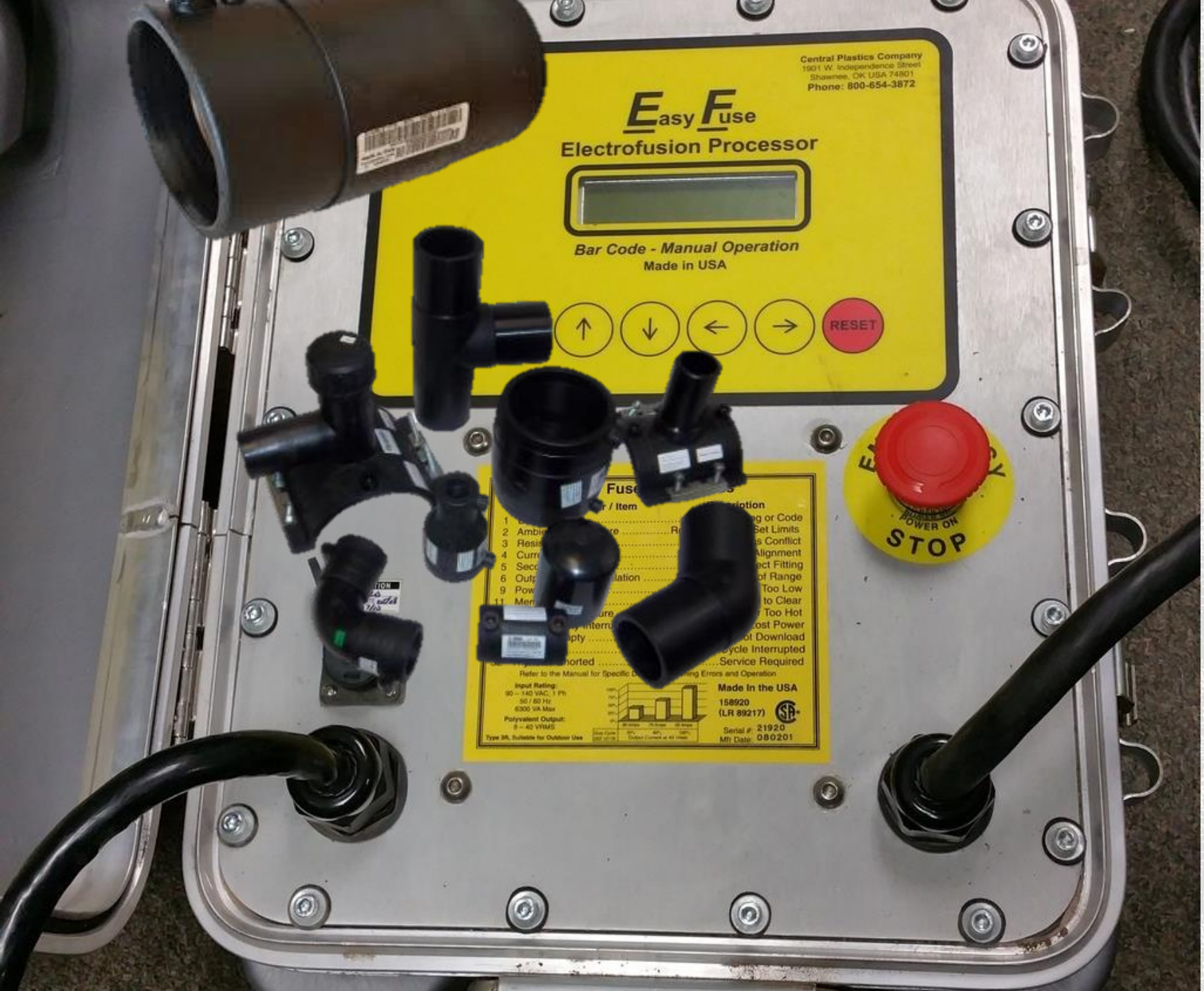
NOTE: The purpose of scraping is to remove material from the pipe surface. Simply roughing up the fusion area will not allow an acceptable bond to take place. (see "Proper Pipe Preparation" page 3)

4.) Avoid touching the scraped pipe surface or the inside of the fitting as body oils and other contaminates can affect fusion joint performance. If the surfaces become contaminated, clean thoroughly with a clean, lint free towel and a **minimum 70%** concentration of isopropyl alcohol and allow to dry before assembling. **Do not use alcohol with any additives other than water.**

CAUTION:
AVOID ALL POSSIBLE RECONTAMINATION OF THE PREPARED SURFACE.

ELECTROFUSION

You must follow the procedures provided by the manufacturer for their fittings.

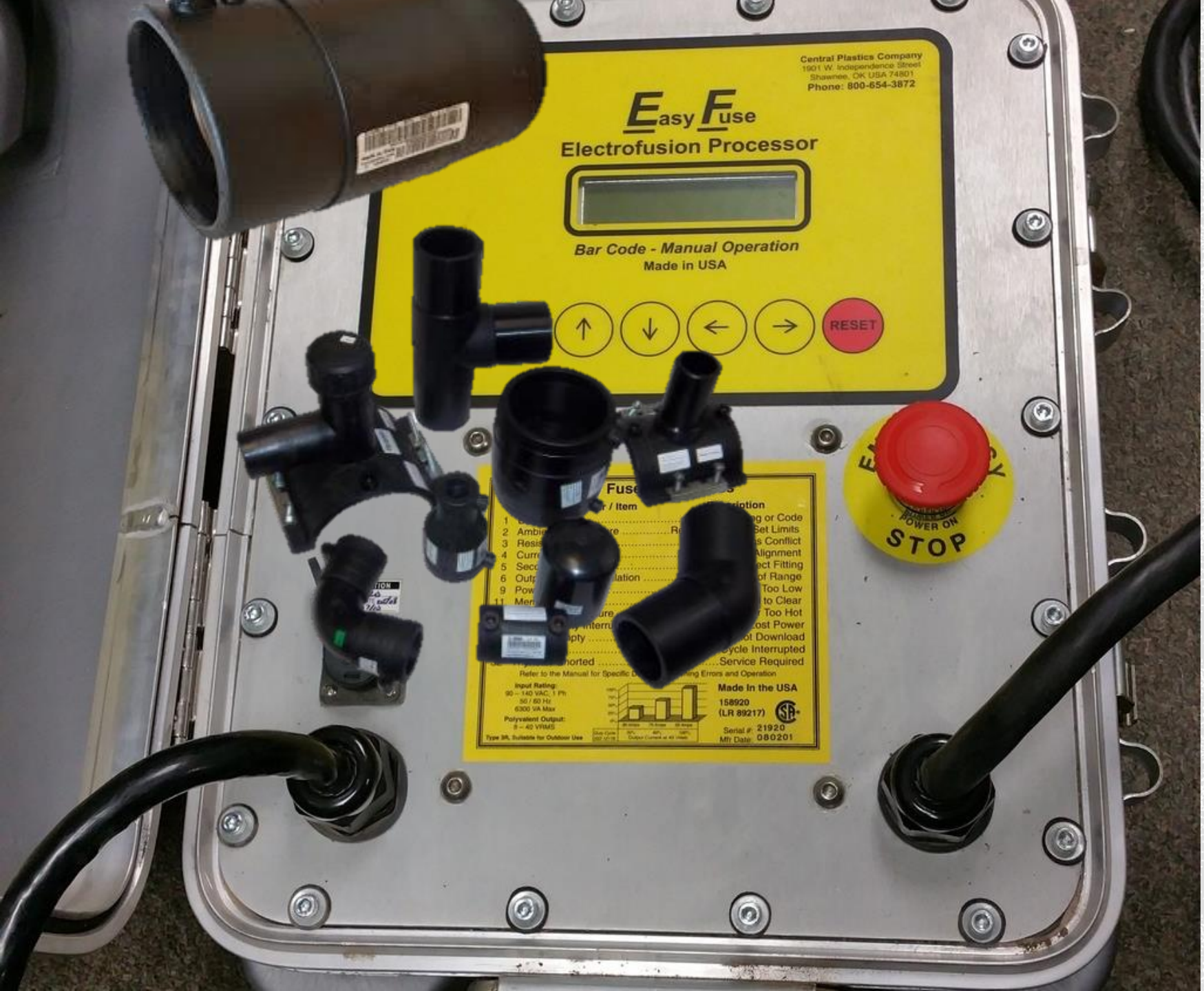


ELECTROFUSION

Pipe preparation issues.

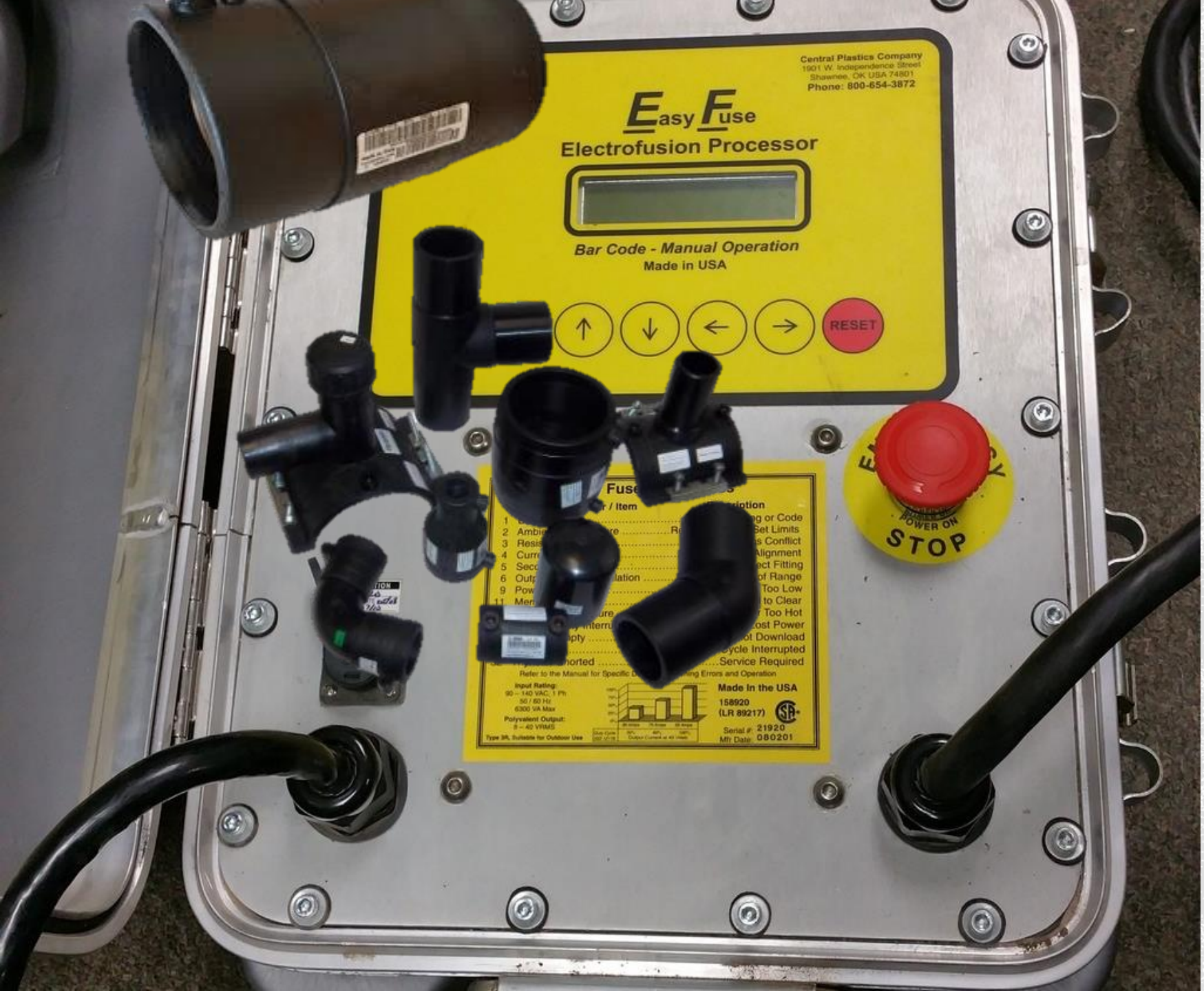
Proper scraping methods are not being used.

Pipe and Fittings are not being properly marked, supported or clamped



ELECTROFUSION

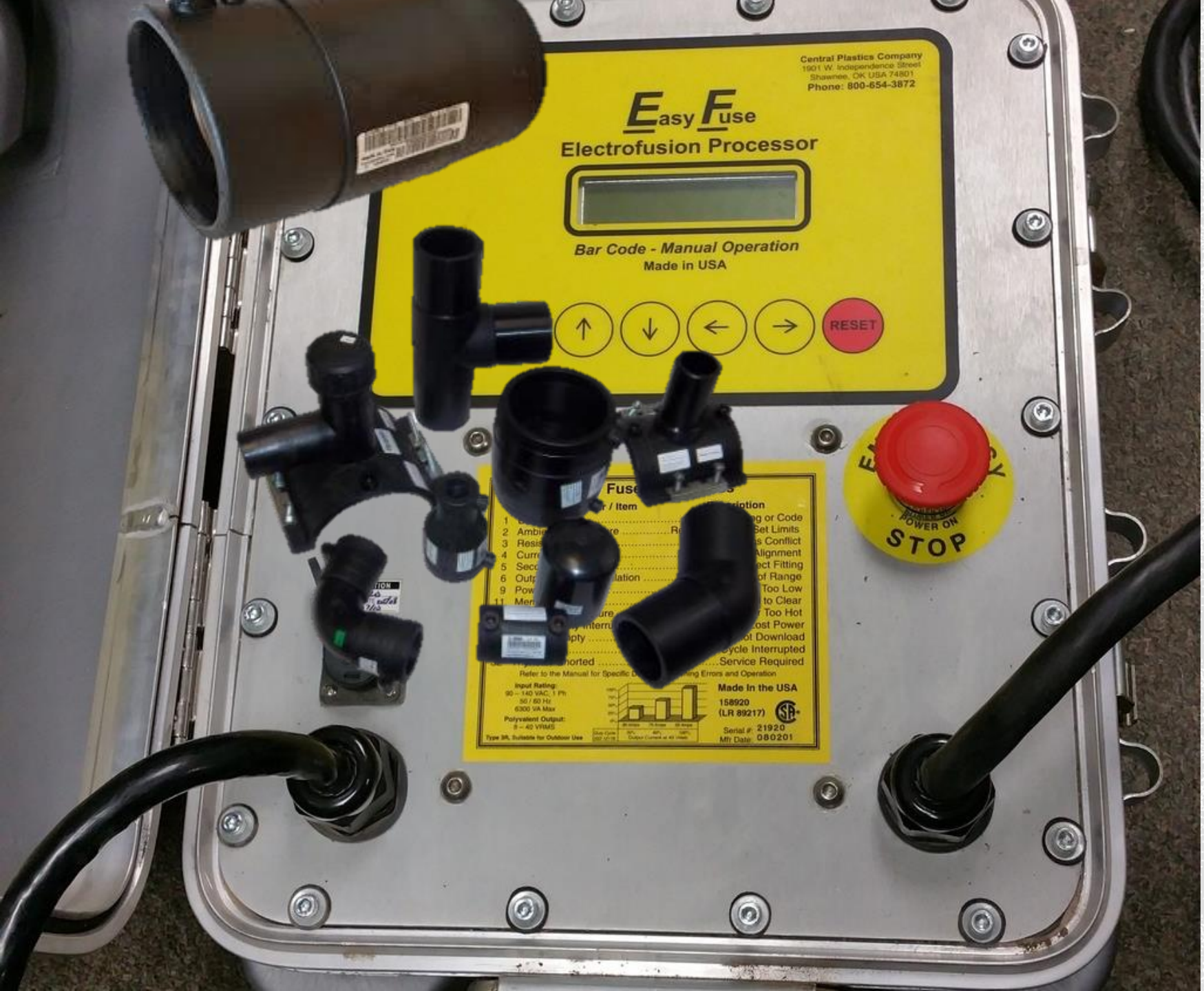
The majority of all Electrofusion fitting manufacturers procedures require "THE USE OF AN APPROVED SCRAPER" however the preferred method of pipe preparation is some type of "peeler" style tool.



ELECTROFUSION

The majority of all Electrofusion fitting manufacturers procedures require "THE USE OF AN APPROVED PEELING DEVICE" however the preferred method of pipe preparation is some type of "peeler" style tool.

The approved style of peeler varies with the manufacturer.

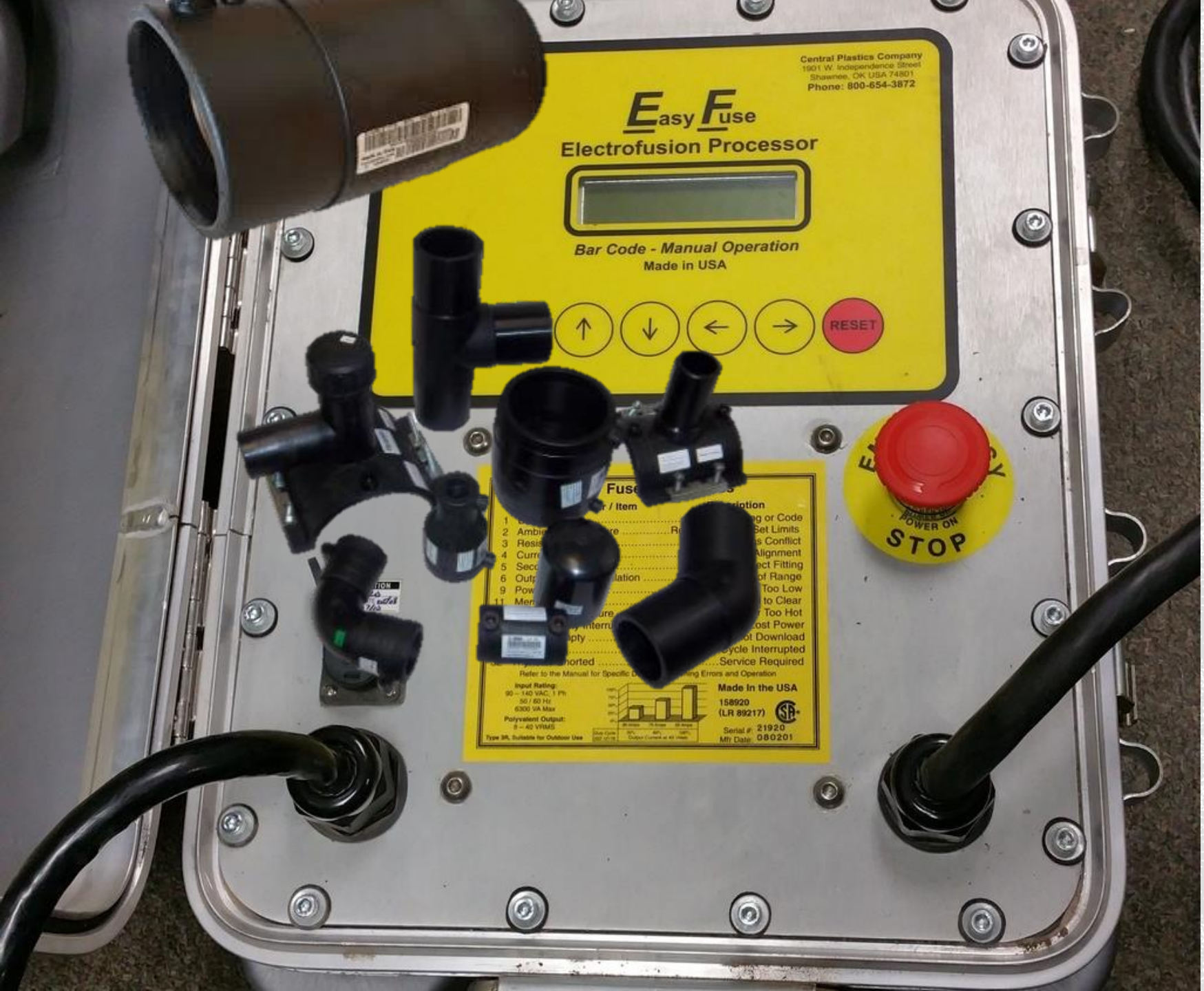


ELECTROFUSION

The majority of all Electrofusion fitting manufacturers procedures require "THE USE OF AN APPROVED SCRAPER" however the preferred method of pipe preparation is some type of "peeler" style tool.

The approved style of scraper varies with the manufacturer.

You must have a tool that is specified in your procedures.

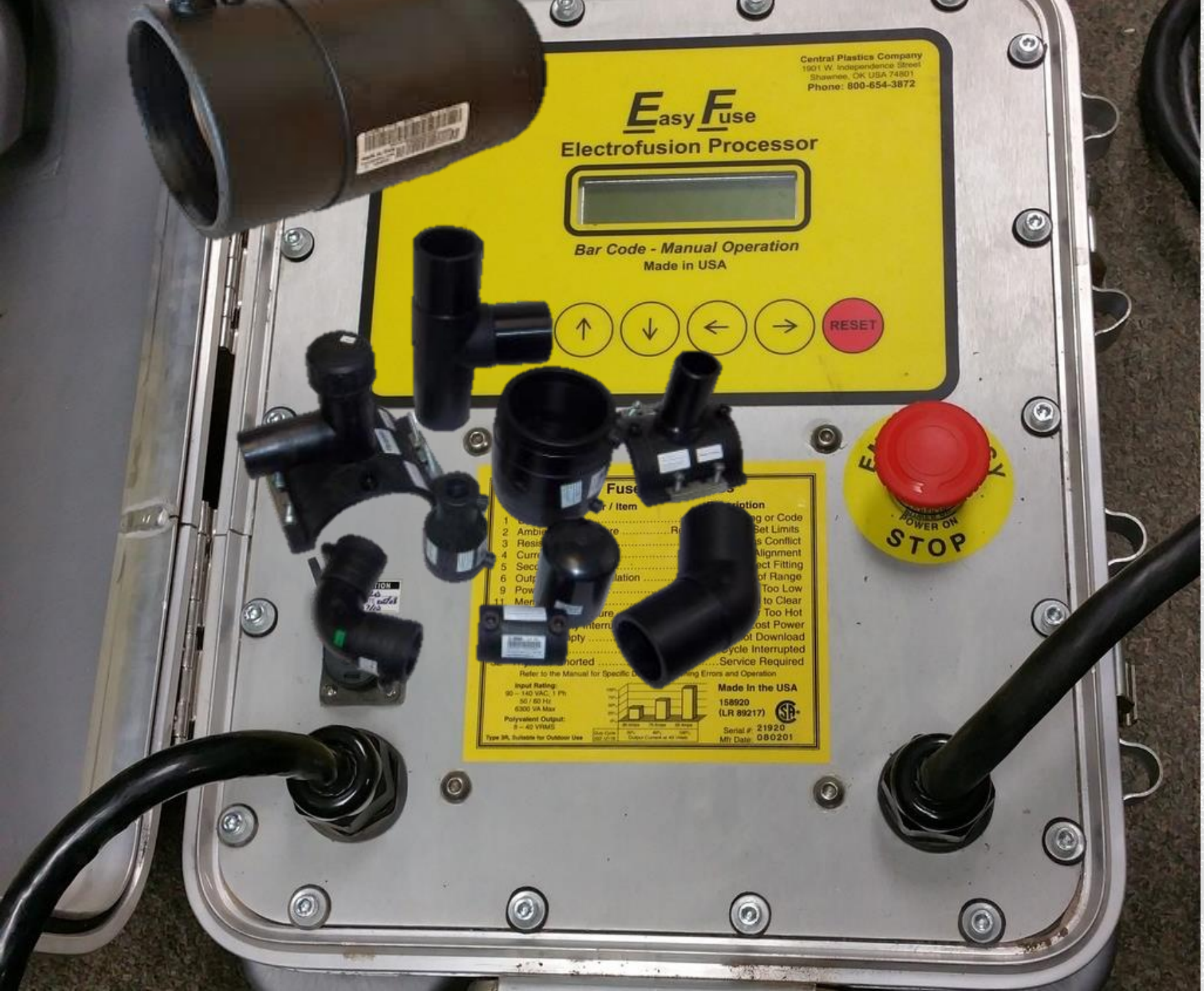


ELECTROFUSION

Pipe Scraping Tools must be capable of –

Removing the oxidation on the outer surface of the pipe.

Removing the material in a consistent smooth manner.



ELECTROFUSION

Electrofusion Processors must be updated and calibrated in accordance with the manufacturer's recommendations.

ELECTROFUSION

Depth should be marked to insure that pipe/ coupling do not shift during fusion.

Clamping is not required on every size pipe but it is recommended.

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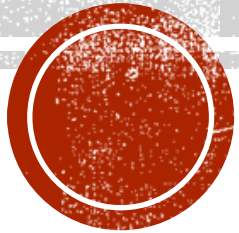
USE PROPER CLAMPS

EQUIPMENT MAINTENANCE AND UPKEEP



EQUIPMENT MAINTENANCE

All equipment used in the fusion process must be in

<u>Proper Working Condition</u>

EQUIPMENT MUST WORK THE WAY IT WAS DESIGNED TO WORK

FUSION HEATER PLATES MUST HAVE THE PLATE ON THEM.

Can NOT use a plate without the Teflon Plate

Heater MUST have the Teflon plate on it

Unacceptable Heater Plates

This could be considered acceptable; coating is still intact and not excessively gouged.

SIDEWALL MACHINE

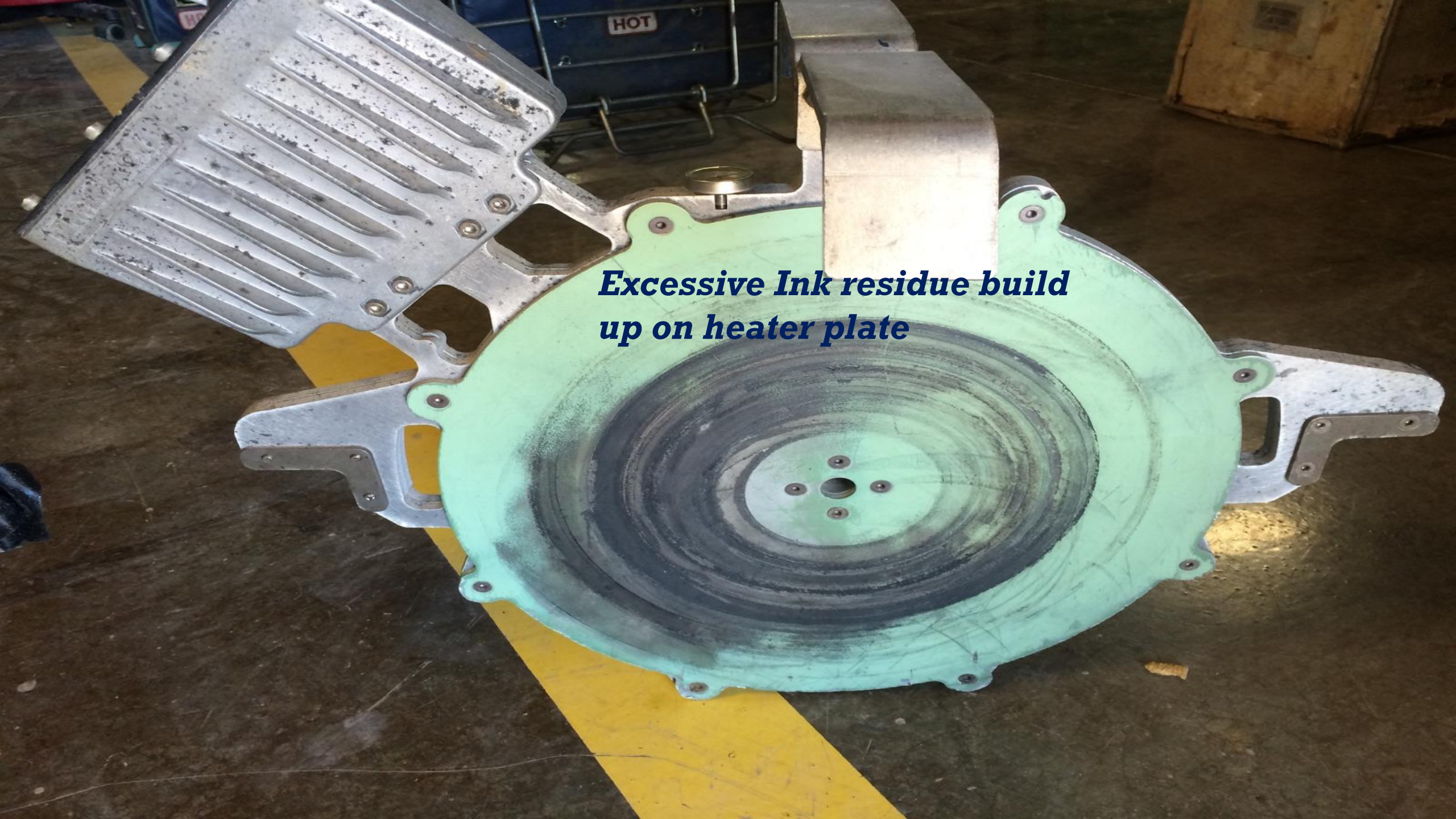
Rails should be smooth and clean.

Head unit should travel freely.

Gauge must be on the machine and in FUNCTIONING order. (probably should at least start out on zero)

Should have the proper pipe inserts for the size pipe being used.

UNACCEPTABLE SIDE WALL HEATER PLATE


HOT
Excessive Ink residue build
up on heater plate

BUTT FUSION CRADLE

Cradle should move freely

Rails should be straight, smooth.

Proper Pipe inserts should be installed to match the size pipe being fused.

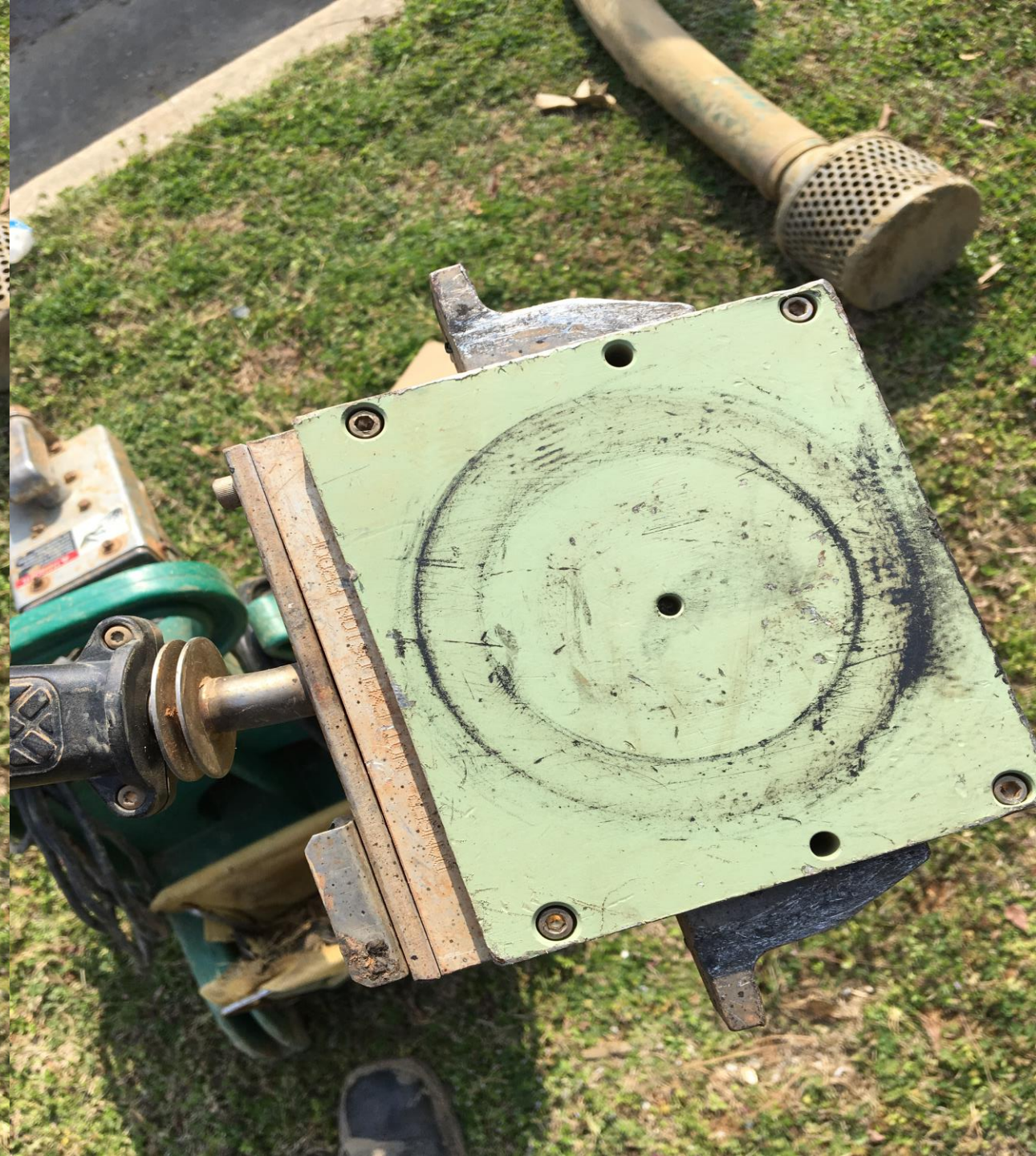
BUTT FUSION CRADLE

Cradle should move freely

Rails should be straight, smooth.

Proper Pipe inserts should be installed to match the size pipe beig fused.

Well Maintained Equipment DOES NOT look like this.



FUSION PROCEDURE REQUIRES THE USE OF A PYROMETER

ALL HEATER PLATE TEMPERATURES MUST BE VERIFIED WITH A PYROMETER OF SOME KIND, THE DIAL GAUGES ON THE HEATER ARE NOT CONSIDERED ACCURATE.....

FACTORY TEMP. GAUGES

Not accurate, CAN NOT be used as verification of heater plate temperature.

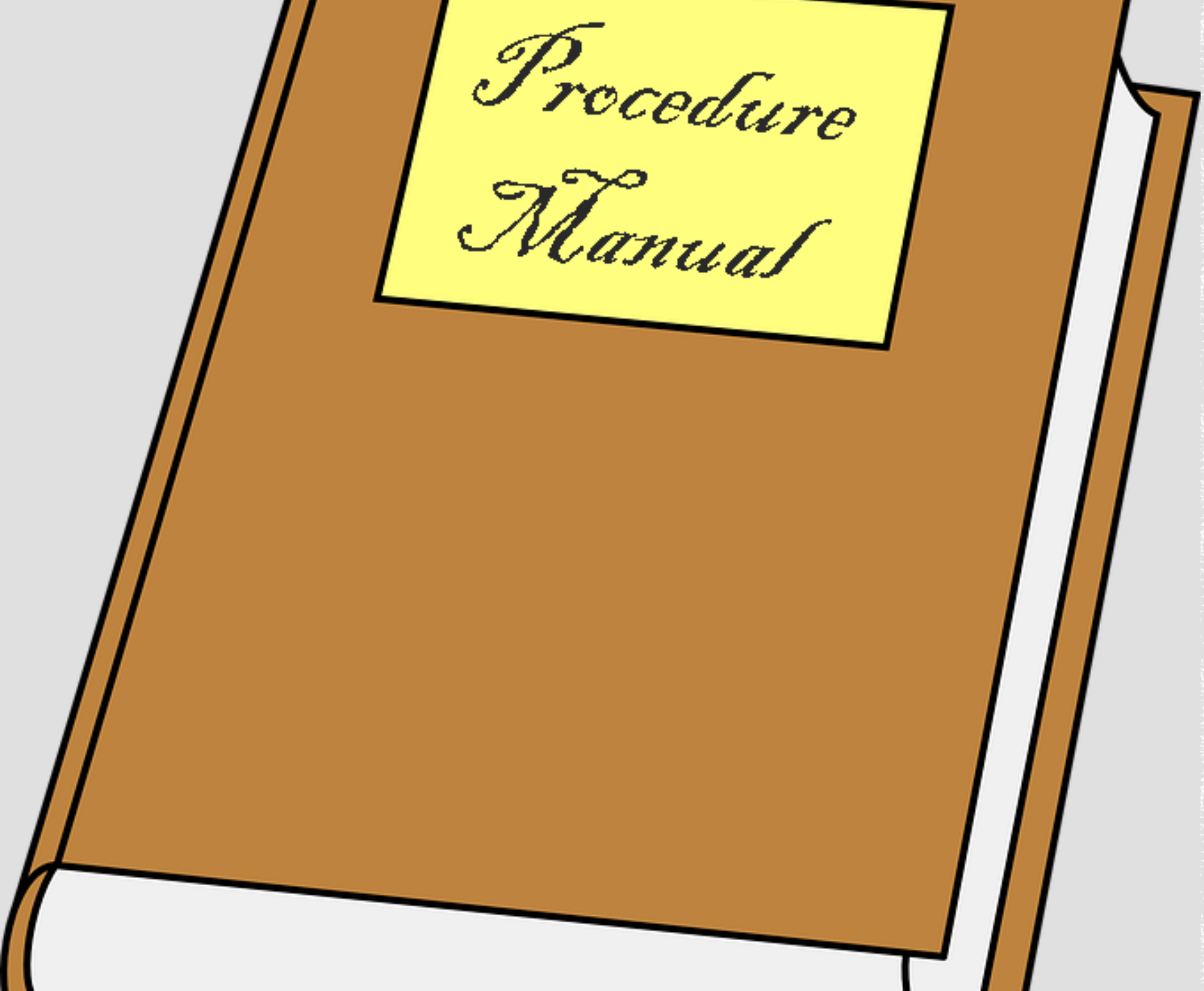
DIRECT CONTACT PYROMETER

Simple to use.

Laser Pyrometer

Must be able to demonstrate the proper +/- formula for the type of laser being used.

The point and shoot method does not necessarily give a correct/ accurate number.



BOTTOM LINE

Become familiar with the procedures put in place by the company you are working for.

FOLLOW the procedures that have been adopted by that company.

BRIDGE CROSSINGS, EXPOSED CROSSINGS, ABOVE GROUND FACILITIES

Pipe going through wing walls/ concrete stands/ pipe supports

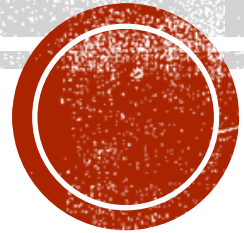
Using CFR 192.479/192.481

- Can this section inside of the concrete be inspected and proven to be unaffected by corrosion ?
- Is it protected?

CFR 192.161-Supports and Anchors

RELOCATION PROJECTS

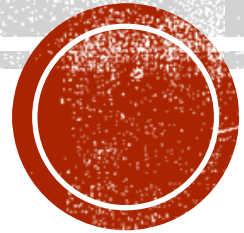
You are required to ensure that your pipeline is relocated, moved, altered etc. in accordance to ALL applicable codes and regulations



IT IS STILL YOUR PIPELINE

- You approve the contractor
- You review and approve their qualifications
- You must provide the contractor with procedures
- It is still your pipe and you are still responsible for its safe operation.

ANY QUESTIONS ?



RANDALL D. HAND
TRAINING COORDINATOR
ALABAMA PUBLIC SERVICE COMMISSION

Randall.Hand@psc.alabama.gov

334-850-0044