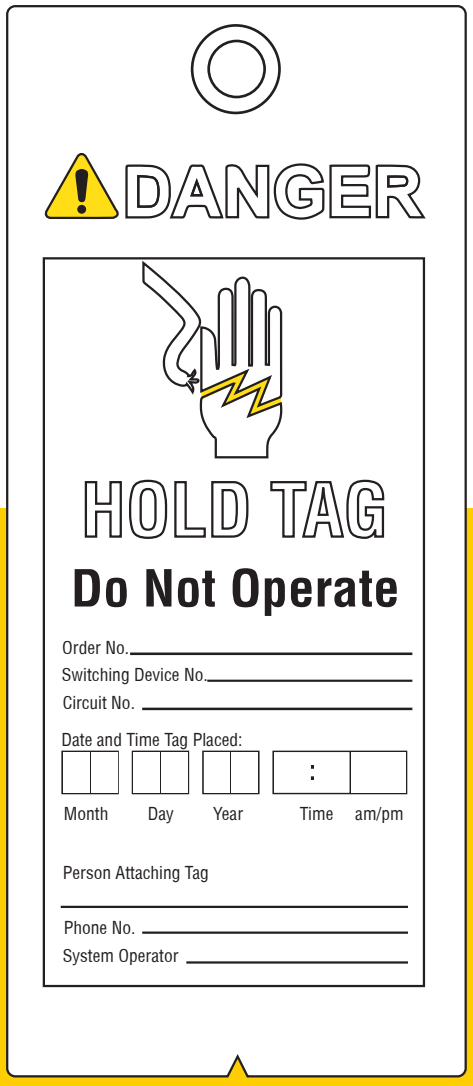


TAGOUT MARKING SOLUTIONS

www.electromark.com

Electromark®

Your Outdoor Identification Experts

The ELECTROMARK EDGE

Tagout Marking Solutions

EXPERTISE

Our expertise comes from our experience. Over 45 years in outdoor identification has given us a deep understanding on the impact of proper identification. We are confident in our ability to customize, innovate and standardize solutions that fit your needs. With years of research, thorough testing and proven results, we know Electromark can deliver a reliable solution to you.

TRUSTWORTHY SERVICE

When we say that we are “Your Outdoor Identification Experts”, we mean every word. Our job is to help you find a solution that alerts, protects and informs the community, contractors and employees. We do not push product, we provide solutions that will improve safety and the reliability of your services.

QUALITY MATERIALS

Durability is the most important trait to look for in a material. Poorly suited material use can result in improper hazard awareness and end with someone getting seriously injured or killed. For this reason, we have scoured and continue to search the marketplace for the best utility-centric products and materials that hold up to demanding outdoor environments and meet or surpass relevant industry compliance requirements like, OSHA, ANSI, NEMA, UL, ISO, ASTM and CSA. We have led the marketplace in innovation and continue to showcase superior products.

Regulation Compliance

Comply with the relevant standards and regulations by reviewing tagout requirements for locking down equipment. **(Pg. 3-4)**

Tagout Tags

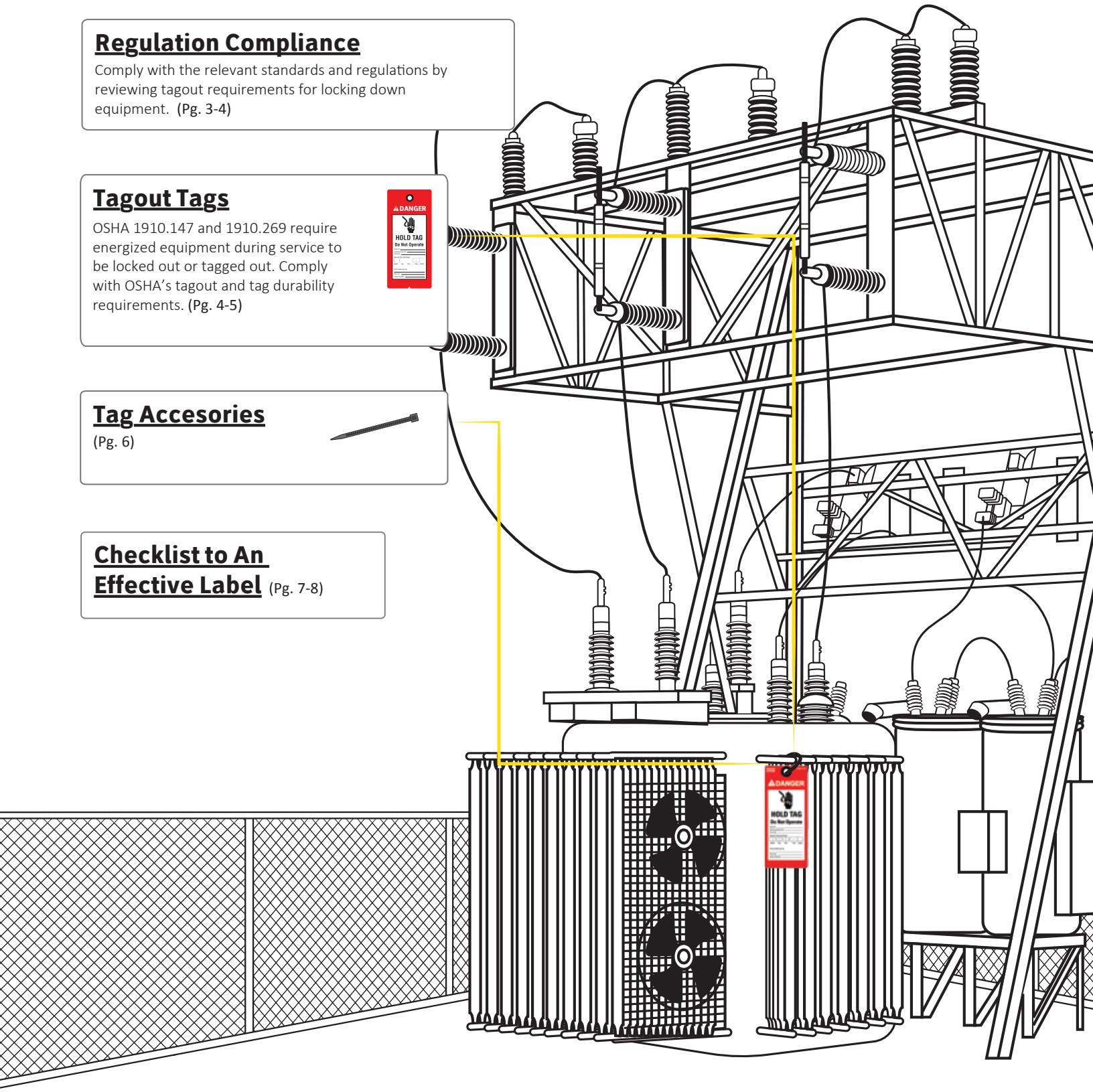
OSHA 1910.147 and 1910.269 require energized equipment during service to be locked out or tagged out. Comply with OSHA's tagout and tag durability requirements. **(Pg. 4-5)**

Tag Accesories

(Pg. 6)

Checklist to An Effective Label

(Pg. 7-8)



LOCKOUT TAGOUT

Lockout Tagout is one of the most cited violations for general industry. The regulation can be found in OSHA 1910.147 (General Industry) and OSHA 1910.269 (Power Generation, Transmission and Distribution). These rules require that all energy sources are turned off and either locked out or tagged out during service or maintenance work.

WHEN TO TAGOUT?

After long debates over lockout vs. tagout, OSHA concluded that lockout is the safer way to ensure that equipment remains de-energized. However, in cases where equipment cannot be locked out, tagout can be used. OSHA 1910.147 (a)(3)(c)(3)) and 1910.269(d)(2)(ii)(B(1) states that if an employer can "demonstrate that the tagout program will provide a level of safety equivalent to that obtained by the use of a lockout program", then the sole use of a tag is appropriate. Tags are also used in addition to locks to emphasize the equipment is locked out.

TAGOUT FOR ELECTRIC UTILITY

Tagout devices are commonly used in electric utility. Most of the equipment that needs to be locked out is a functioning component of a large, complex distribution network and cannot accommodate a locking device. In some field circumstances locks can even be impractical and perhaps more dangerous than a tag. Nonetheless, when developing or evaluating your own LOTO program, we recommend you assess your training effectiveness, written procedures and workforce's capabilities prior to making your final decision

Tagout Regulations and Standards:

	TYPE	CITED REGULATION
OSHA	Regulation	• Defines what lockout tagout is and how and when each method should be used • Provides definitions of who will handle the program and the people that need to be trained about the program • Highlights general employer duties to maintain the safety of employees
National Electric Safety Code	Standard	• Defers to ANSI Z535.5 for tag design and layout

Tag Construction and Design Requirements

STANDARD DESIGN

OSHA 1910.269(d)(3)(ii)(A)(2) requires tagout devices to be standardized within the facility in at least one of the following criteria: color, shape or size; and additionally in the case of tagout devices, print and format should also be standardized.

OSHA 1910.269(d)(3)(ii)(D) require tag attachment means to meet 50lb pull force. Tags must be made out of materials that will hold up to the environment where they are being used.

NESC Part 4 Section: 41 Rule: 411D points to ANSI Z535 for tag design and layout requirements.

WHY VINYL?	WHY POLYESTER?
Very tough material, naturally thicker than polyester. Less sensitive to edge tearing.	Easier material to write on, and it can be used in print on-demand devices. Tough material.

Need a tag with even more durability? Contact us for a custom solution.

SELF-LAMINATING TAGOUT TAGS

Extremely durable and lightweight polyester tags resist temperatures, UV, moisture and wind. Pencil markings on the polyester surface appear highly legible. Inscribe your specific information, laminate with clear polyester adhesive flap and attach your tag. Once the tag has served its purpose, destroy it via the edge tear-notch to eliminate any future confusion.

TAGOUT TAGS

Tagout Marking Solutions

PERFORATED TAGOUT TAGS

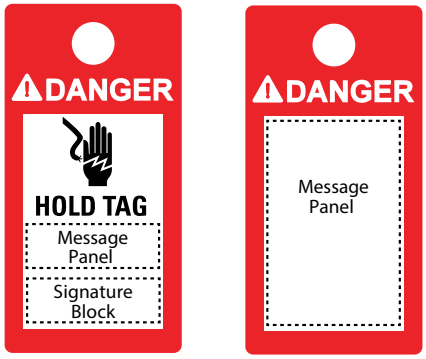
We took the qualities and benefits of our standard self-laminating tagout tags to design perforated tags. Save time and improve records by detaching operational details that need to be saved in the office for record keeping. Standard tag size 7” x 4”; stub: 2” x 4”.

ANSI 1968 (OSHA Header) TAGS

Similar to signs, tags require a consistent text style and format. We offer stock and custom tags in the OSHA 1968 format.

PRINT ON-DEMAND TAGS

Customize and print tags on-demand by pairing Electromark print-on-demand tags with either Redtag or TagLink software. Buy tags in sheets to print from a laser, thermal or ink jet printer, or buy them in rolls to combine with a desktop thermal printer.



CUSTOM TAGS

Combine our lineup of tag features or add your custom information to a specific stock layout. Tell us what you need, we will design the proof to conform to ANSI Z535.

6 STEPS: TO AN EFFECTIVE LOTO PROGRAM

1. Develop and document your equipment energy control procedures
2. Create and post written, visual and equipment-specific tagout procedures
3. Mark energy control points
4. Train employees and contractors by communicating and conducting periodic inspections
5. Equip your employees with proper tagout tools and warning devices
6. Continually improve the program process

WRAP AROUND POLE BANNERS

Alert other linemen that the pole is currently being worked on with our fluorescent wrap-around banner. The banner is 6” x 45”, attachable by velcro and contains pockets that will hold the tagout tag. Customize the banner to accommodate your work protection process and needs.

REUSABLE BUNGEE DANGER SIGNS

Use this temporary and reusable 10” x 12” heavy-duty vinyl banner as an alert to other linemen when a pole or tower is being worked on. The banner comes with a bungee cord and features four grommets for easy installation. This sign can be customized and is available in a variety of colors.

TAG FASTENERS

Strings and wires do not comply with OSHA 1910.147 and 1910.269. For tagout use self-locking nylon zip ties. Ties are UV resistant, non-releasable and exceed OSHA’s 50lb pull strength mininum.

TAGOUT TAG CHECKLIST

Tagout Marking Solutions

1 Correct Header

Use the “Danger” header for a tagout tag. Danger headers should be used in cases where there is an imminent hazard which if not avoided, will result in death or serious injury. ANSI requires the signal word for hazard tags to be located at the top of the tag. The letters used in the signal word should be at least 3/8” high.

2 White Message Panel

The message panel should be safety white and the lettering safety black for the highest contrast and visibility. The letters should be upper and lowercase letters. All uppercase letters should only be used for short statements to emphasize certain words.

3 Clear Symbol

Symbols can convey hazards faster than words and have the ability to transcend language barriers in multilingual environments. Use a symbol that illustrates the consequence of the hazard.

4 Concise Message

All tags need to contain a message panel that identifies the specific hazard or relevant instruction. The message panel should be concise and easy to understand, examples include: Do Not Operate, Do Not Close, Do Not Open, Do Not Energize. A single tag should only address one issue to avoid confusion.

5 Signature Block

Tagout tags should contain a place for the name and contact information of the person authorizing the placement or attaching the tag to the power source. Also consider including a note section, service start and completion date.

☐ 6 Tag Border

The border should be the same color as the signal word panel used on the tag (red for danger, orange for warning, yellow for caution, blue for notice and green for safety instruction). If more contrast is required for the tag, according to ANSI Z535 5.4.4, safety white can also be used as a background color if necessary to achieve better contrast.

☐ 7 Double Sided

At the very least, the back of the tag should refer to the front of the tag. The best tags, however, provide instructions that coincide with the tagout program.

☐ 8 Tag Size

Small tags = small print. Smaller tags are harder to read and fill out. Handwriting requires at least ¼" between rows. When you can, use larger tags. If a smaller tag is required, avoid readability issues by printing your own tags opposed to using handwritten fields.

☐ 9 Tag Removal

Tags are temporary. Use tags with small V-slots to enable quick destruction after use. Some customers use a perforated section of the tag that can be sent back to the office to record a completed job.

Your Tagout Experts

Over 45 years of utility industry knowledge enables us to deliver durable, reliable, standard and custom tagout solutions. Electromark's Tagout Marking Solutions booklet includes a variety of products that come custom or standard:

- Tagout tags
- Tagout accesories

Need help making a decision? We'll evaluate your needs and guide you to a solution that will work for you.

Call us with any questions or orders and we'll be happy to help! For more marking solutions visit us at www.electromark.com.

Electromark
P) 800-295-8247
E) customerservice@electromark.com
6555 W. Good Hope Rd. Milwaukee, WI 53223

Y4241928

Electromark®
Your Outdoor Identification Experts