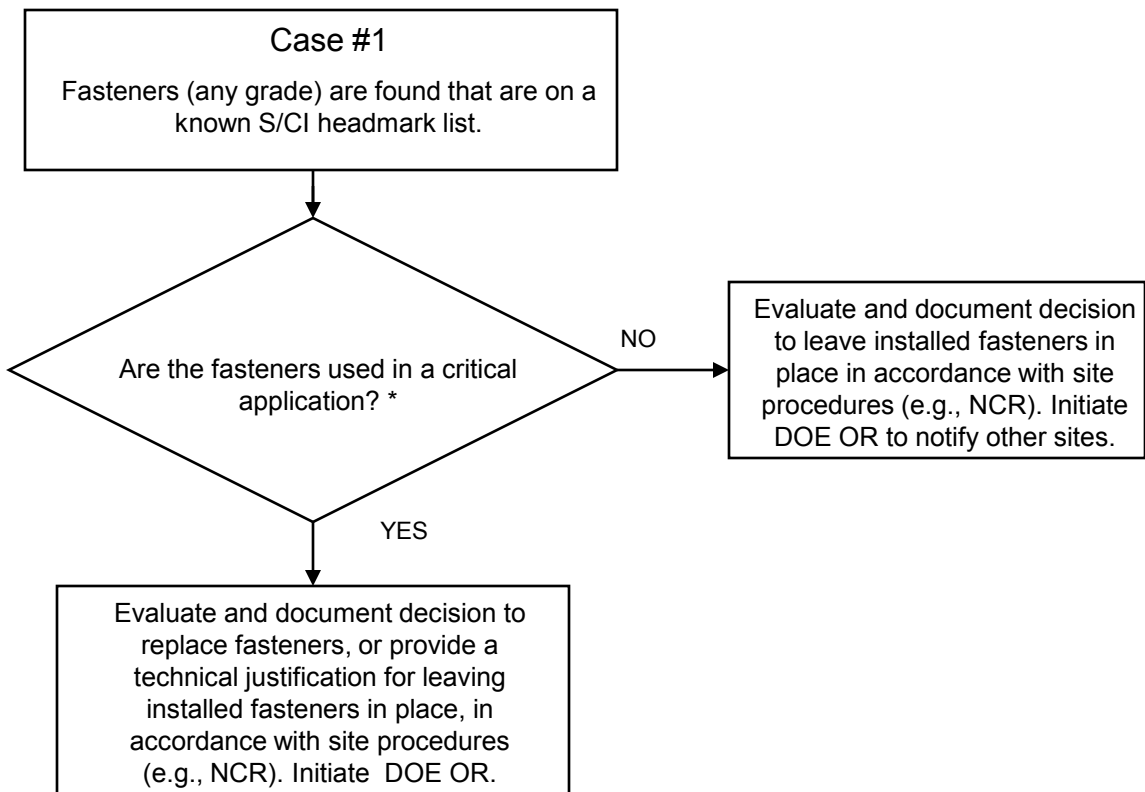


# Suspect/Counterfeit Item (S/CI) Guidance Flow Chart for Fasteners

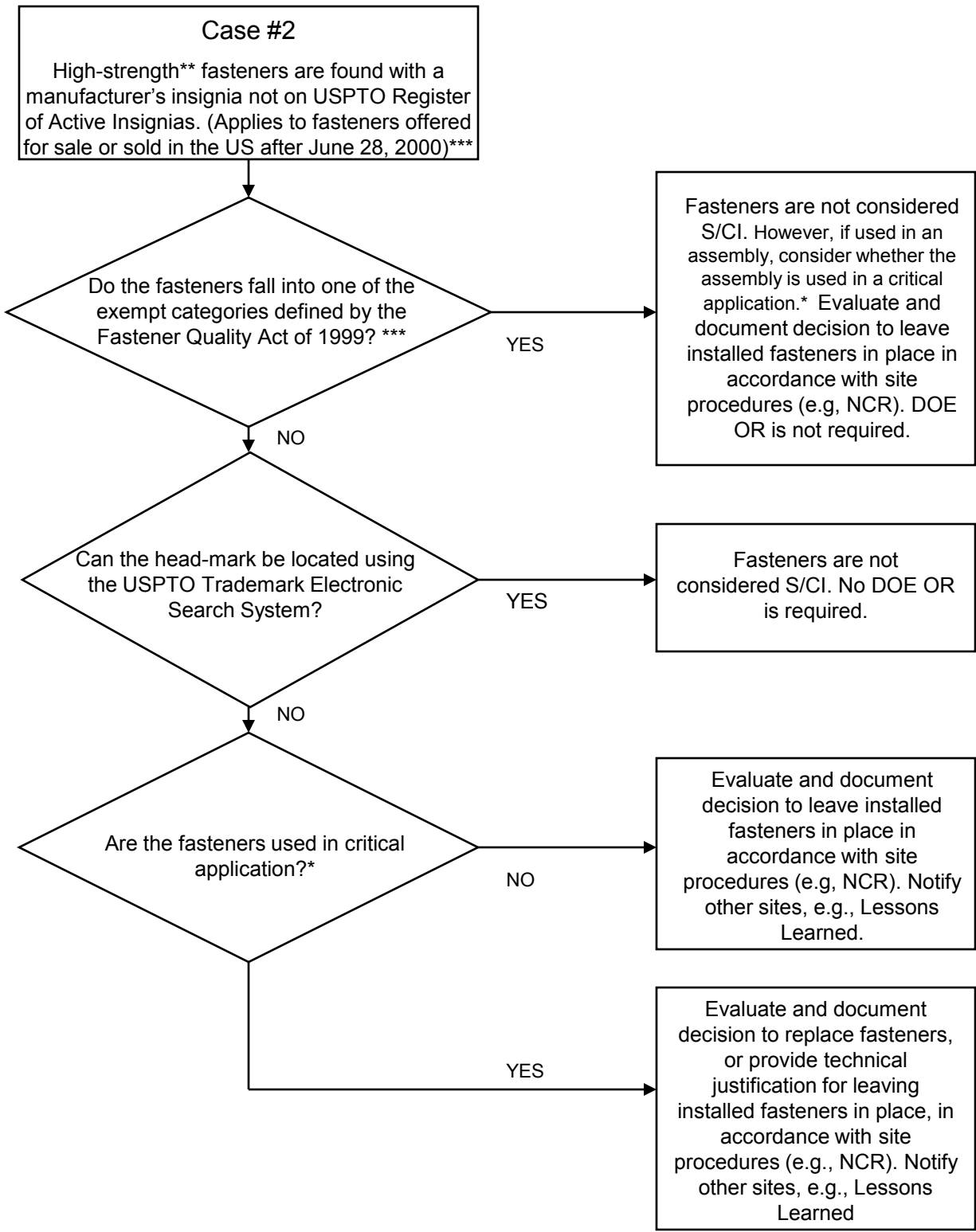


\* Examples of critical applications:

- Structures intended for full time or intermittent occupancy
- Safety class or safety significant SSC as defined by the facility SAR/DSA
- Any system that provides containment/confinement of radioactive, toxic or flammable materials
- High pressure liquid system (e.g., >1500 psig) or moderate pressure gas system (>150 psig)
- Pressure vessel
- Rigging, crane, or other lifting equipment involving stress/load bearing components

\*\* High-strength fasteners are defined as bolts, screws, studs, nuts, washers (including load-indicating/direct tension washers) ¼ in. or greater, or 6 mm or greater, nominal diameter that are through-hardened (i.e., quenched and tempered). These items are grade identification marked (e.g., grade 5) or are marked with a consensus standard that requires through-hardening (e.g., A325). Consensus standards also require the manufacturer's insignia, including A307 bolts and grade 1 & 2 bolts.

Note: In all three cases provided in this guidance, “found” may be during: receiving inspection, inspection of new construction, or the inspection of legacy SSCs or other items on site.



\*\*\* The original Fastener Quality Act of 1990 never went into effect due to various delays. Instead, it was superseded by the Fastener Quality Act Amendments Act of 1999, commonly referred to as the Fastener Quality Act of 1999. It applies to fasteners fabricated after June 28, 2000. Fasteners fabricated prior to this date, may be offered for sale providing the manufacturer or distributor prepares a record of conformance (e.g., a CMTR) for such fasteners, and "representations about such fasteners shall be subject to the requirements of this Act."

**Case #3**  
Fasteners are found with no grade marking or no manufacturer's insignia.

