



ESH ALERT

No. 09-03

date 6/9/2009

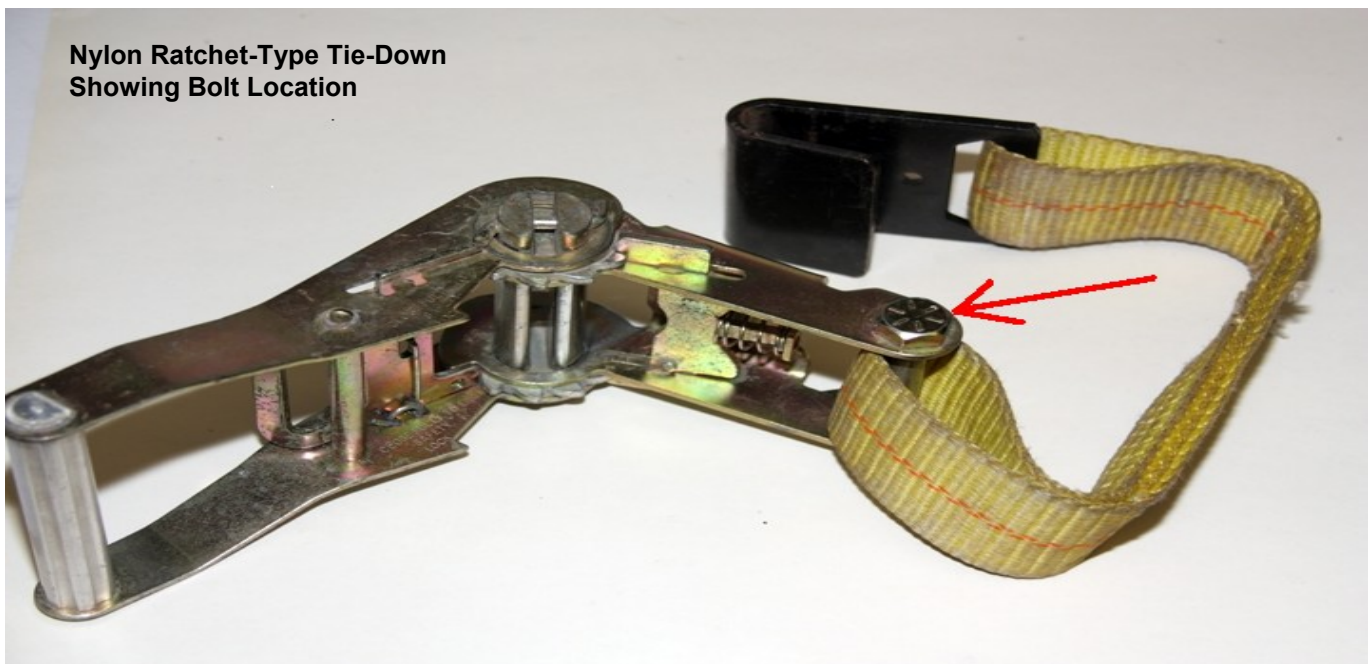
Suspect/Counterfeit Components Identified In Ratchet-Type Tie-Downs

During a surveillance of motor carrier equipment at the Knolls Atomic Power Laboratory, seventeen (17) Grade 8 fasteners with headmarks (markings) associated with suspect/counterfeit items were discovered in nylon ratchet-type tie-downs. All of the suspect ratchets were removed from service. Some of the manufactures could not be identified due to the vintage of the equipment. Manufacturers that could be identified included: LiftAll 2" ratchet strap with a 3300 lb Working Load Limit; Security Chain Co. (SCC) 2" ratchet strap with a 3300 lb Working Load Limit; All Lifts, Inc. 2" ratchet strap with a 3300 lb Working Load Limit; Kinedyne 2" ratchet strap with a 3300 lb Working Load Limit; and Span Set, Inc. 2" ratchet strap with a 4000 lb Working Load Limit. All users of this type of equipment are requested to perform a 100% inventory for identification of suspect/counterfeit components used in ratchet type tie-downs.

Several pictures are included below that show both proper and counterfeit bolts. All Grade 5 and Grade 8 bolts are required to have headmarks. Grade 5 bolts have three hatches with a manufacturer's code (typically letters) in the middle. Grade 8 bolts have six (6) hatches with a manufacturer's code in the middle. Following the pictures is an excerpt from DOE-STD-1090-2004 that shows bolts with headmarks that should be classified as "defective" (counterfeit). Additional information regarding suspect/counterfeit components can be found at the following link:

https://nnppweb/kapl/qaa/SCIitems/SCI_Awareness_Training_Manual_12-07-04.pdf

**Nylon Ratchet-Type Tie-Down
Showing Bolt Location**

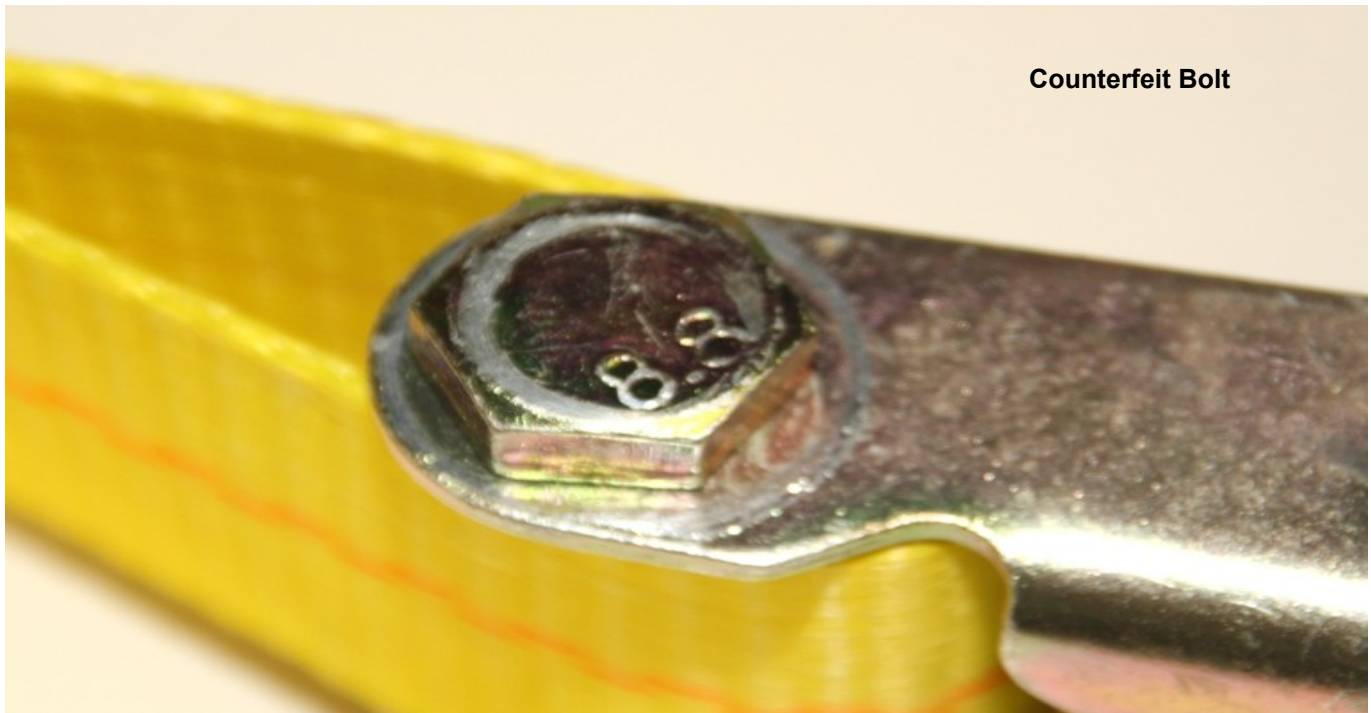




Non-Counterfeit Bolt, or “Good” Bolt



Counterfeit Bolt

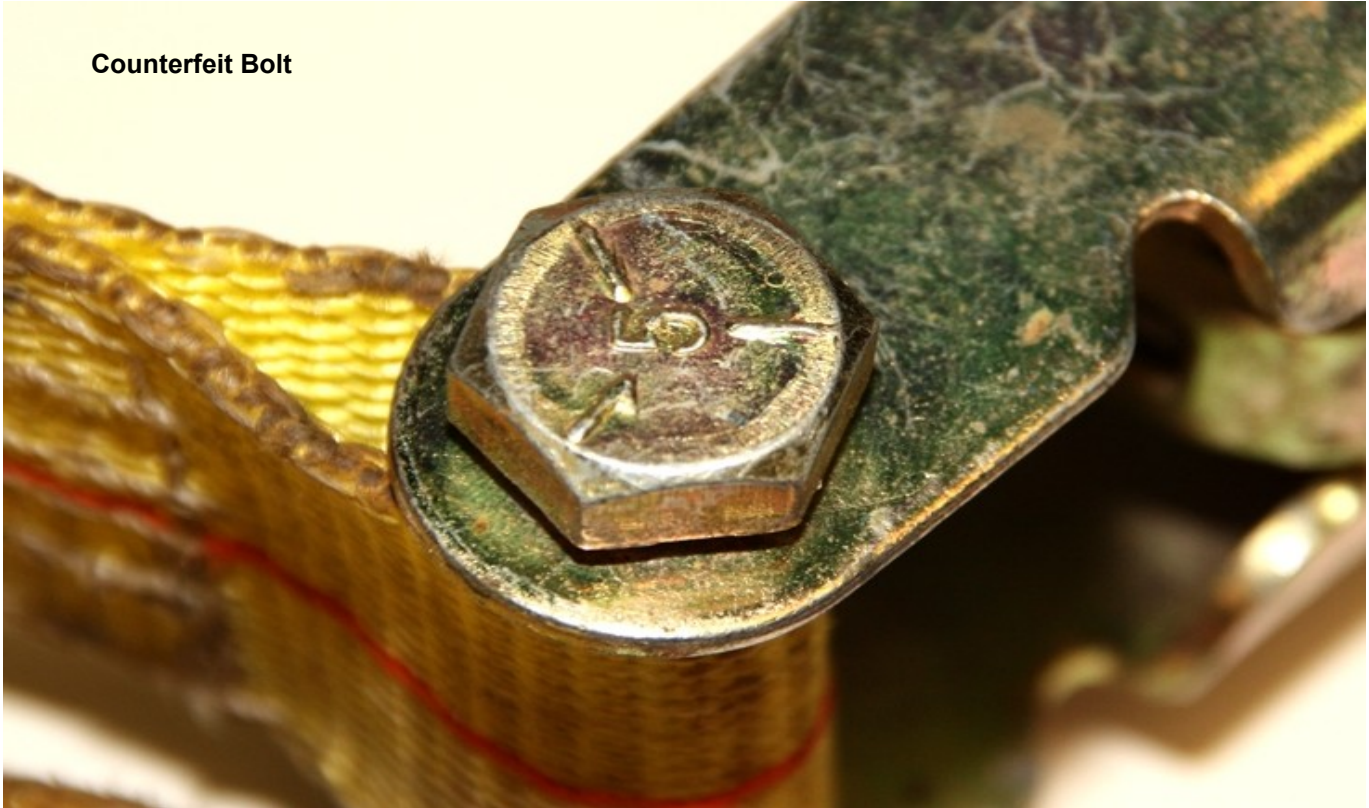


Counterfeit Bolt



Counterfeit Bolt

Counterfeit Bolt



SHORT-TERM CORRECTIVE ACTIONS

1. Brief all employees who use or manage ratchet-type tie-downs to the issue.
2. Perform further surveillances and examine all ratchet-type tie-downs.
3. Remove all defective or counterfeit units from service and dispose of them.
4. Brief Operational Leadership Team and Unit Managers Forum to the issue.

LONG-TERM CORRECTIVE ACTIONS

1. Brief P-Card holders and purchasing organizations to the issue to ensure measures are implemented to prevent procurement of prohibited articles.
2. Perform follow-up surveillances to ensure ratchet-type tie-downs with defective or counterfeit bolts are not used or in service.



DOE-STD-1090-2004

DOE HEADMARK LIST

ANY BOLT ON THIS LIST SHOULD BE TREATED AS DEFECTIVE WITHOUT FURTHER TESTING

ALL GRADE 5 AND GRADE 8 FASTENERS OF FOREIGN ORIGIN WHICH DO NOT BEAR ANY MANUFACTURE'S HEADMARKS:



GRADE 5
















GRADE 8


GRADE 5 FASTENERS WITH THE FOLLOWING HEADMARKS:

MARK	MANUFACTURER	MARK	MANUFACTURER
 J	Jinn Her (TW)	 KS	Kosaka Kogyo (JP)




GRADE 8 FASTENERS WITH THE FOLLOWING HEADMARKS:

MARK	MANUFACTURER	MARK	MANUFACTURER
 A	Asahi Mfg (JP)	 KS	Kosaka Kogyo (JP)
 E	Dalai (JP)	 M	Minamida Sleybo (JP)
 FM	Fastener Co. of Japan (JP)	 MS	Minato Kogyo (JP)
 H	Hinamoto Metal (JP)	 NF	Nippon Fasteners (JP)
 J	Jinn Her (TW)	 RT	Takai Ltd (JP)
 KY	Kycel Mfg (JP)	 UNY	Unylite (JP)
 Hollow Triangle	Intasco (CA, TW, JP, YU) (Greater than 1/2 inch diameter)		

GRADE 8.2 FASTENERS WITH THE FOLLOWING HEADMARKS:

MARK	MANUFACTURER
 KS	Kosaka Kogyo (JP)

GRADE A325 FASTENERS (BENNETT DENVER TARGET ONLY) WITH THE FOLLOWING HEADMARKS:

	MARK	MANUFACTURER
Type 1	 A325 KS	A325KS Kosaka Kogyo (JP)
Type 2	 A325 KS	
Type 3	 A325 KS	



AUGUST 1992

KEY: CA - CANADA JP - JAPAN TW - TAIWAN YU - YUGOSLAVIA

GF00 0209

Figure 1-5