

**OPERATIONS SAFETY NOTICE**

7 February 2022

**OSN 214ST-22-11****TO: All owners and operators of Model 214ST helicopters****SUBJECT: Tail Rotor Crosshead Duplex Bearing and Counterweight Installation**

This OSN is to remind 214ST owners and operators about the importance of proper assembly of the parts associated with the tail rotor mast and pitch change mechanism. An incident occurred recently that resulted in fracture of the end of the mast, and the most likely cause is improper orientation of the crosshead bearing. If the bearing is not installed correctly it can lead to higher dynamic loads in the mast and subsequent failure. Improper positioning of the counterbalance weights will also result in higher than desired loads.

Users are reminded that the orientation of the crosshead duplex bearing and configuration of the counterweights are critical to avoid failure of the tail rotor mast. If there is any doubt about the proper installation of these items, users are encouraged to verify their proper installation.

Installation instructions and diagrams for these items, showing their proper orientation and placement, are found in BHT-214ST-MM:

- Duplex Bearing: Para. 64-6.8. and Fig. 64-1 (Item 8)
- Counterbalance Weights: Para. 64-18.6.a. and Fig. 64-12 (Detail A)

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Approved for public release.