

**Helicopter Safety Enhancement (H-SE) 28:
Helicopter Final Walk Around/Security of External Cargo**

Safety Enhancement Action:	Outreach: Industry and the FAA to (1) develop guidelines/recommended practices for helicopter preflight inspection, final walk around, and postflight inspection and (2) to promote the guidelines/recommended practices to the training community and general pilot community.
Expected Implementers:	<ul style="list-style-type: none"> • FAA AFS-800 • FAA Safety Team (FAAST) • USHST Safety Analysis Team (SAT) • USHST Special Emphasis Area (SEA) Training Team • Helicopter Association International (HAI) Safety Committee (SC) • Helicopter OEMs (GAMA to coordinate)
Statement of Work:	<p>The pilot in command is responsible for determining the airworthiness of the aircraft he/she is operating (14 C.F.R. § 91.7). An adequate preflight inspection and final walk around is key to determining the condition of an aircraft prior to flight. Post-flight inspection also can help to identify issues prior to the next flight.</p> <p>One of the fatal accidents reviewed by the USHST in the LOC-I dataset involved inadequate aircraft inspections. The USHST believes that better guidance on both how and why to conduct these inspections, as well as increased attention to their importance, may mitigate such events in the future.</p> <p>To help prevent fatal helicopter accidents resulting from inadequate aircraft inspections before and after flight, the civil helicopter community should develop guidance on and increase awareness of the importance of preflight inspection, the “final walk around” (a final safety check prior to flight), and postflight inspection.</p>

	<p>Due to their similarity, the USHST decided to merge another intervention strategy (IS) that ranked above the Mendoza Line in creation of this H-SE.</p> <ul style="list-style-type: none"> IS 112, Training: Conduct training on proper security of external cargo items. <p>Project:</p> <ol style="list-style-type: none"> Brief HAI SC on data regarding inadequate aircraft inspection. Develop guidelines/recommended practices for helicopter inspections, including preflight, final walk around, and post-flight. Promote the guidelines/recommended practices for helicopter inspections to the training community and the general pilot community. <p>The following fatal accident prompted this safety enhancement: WPR10FA440</p>																						
Relation to Current Aviation Community Initiatives:	<ul style="list-style-type: none"> FAA M-Pamphlet: Advanced Preflight, <i>available at</i> https://www.faasafety.gov/standdown/content/faa_m_pamphlet.pdf HAI Pre-Flight Risk Assessment Tool (User's Guide available at https://www.rotor.org/fox/mission/hai_mra.pdf) FAA Safety Briefing March/April 2012, "Advanced Preflight," pg. 18 																						
Performance Goal Indicators:	<ul style="list-style-type: none"> Development of guidelines/best practices for aircraft inspections. Promotion of guidelines/best practices. 																						
Key Milestones:	<table> <thead> <tr> <th></th><th><u>Total Months</u></th><th><u>Start Date</u></th><th><u>End Date</u></th></tr> </thead> <tbody> <tr> <td>Output 1:</td><td>6</td><td>Nov. 1, 2017</td><td>May 1, 2018</td></tr> <tr> <td>Output 2:</td><td>12</td><td>May 1, 2018</td><td>May 1, 2019</td></tr> <tr> <td>Output 3:</td><td>12</td><td>May 1, 2019</td><td>May 1, 2020</td></tr> <tr> <td>Completion:</td><td>30 months</td><td></td><td></td></tr> </tbody> </table>				<u>Total Months</u>	<u>Start Date</u>	<u>End Date</u>	Output 1:	6	Nov. 1, 2017	May 1, 2018	Output 2:	12	May 1, 2018	May 1, 2019	Output 3:	12	May 1, 2019	May 1, 2020	Completion:	30 months		
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Potential Obstacles:	<p>Achieving consensus on guidelines/best practices from experts. Resources to conduct promotional activities.</p>																						
Detailed Implementation Plan Notes:	<p>Promotion of guidelines/best practices should consider key aviation community and training events, including Heli-Expo.</p>																						
CICTT Code:	LOC-I																						
Output 1:																							
Description:	Review data regarding inadequate aircraft inspection.																						

Lead Organization:	USHST SAT
Supporting Organizations:	HAI SC
Actions:	<ol style="list-style-type: none"> 1. USHST SAT to compile briefing on fatal accidents raising aircraft inspection concerns. 2. USHST SAT to review briefing with the HAI SC.
Time Line:	6 months
Target Completion Date:	May 1, 2018
Output 2:	
Description:	Develop guidelines/recommended practices for helicopter inspections, including preflight, final walk around, and post-flight.
Lead Organization:	HAI SC
Supporting Organizations:	<ul style="list-style-type: none"> • FAA AFS-800 • FAAST • Helicopter OEMs (GAMA to coordinate)
Actions:	<ol style="list-style-type: none"> 1. HAI SC, in conjunction with support from the FAA and OEMs, to develop guidelines/recommended practices for: <ol style="list-style-type: none"> a. Pre-flight inspection b. Final walk around c. Post-flight inspection 2. HAI SC, in conjunction with the FAA and industry support, to provide recommendations regarding promotion of guidelines/recommended practices.
Output Notes:	<p>HAI SC should consider existing materials on aircraft inspections. HAI SC may also consult aircraft type clubs for input on best practices.</p> <p>Guidelines/recommended practices should include both practical information regarding the conduct of said inspections, as well as color and context regarding the importance of said inspections. Guidelines/recommended practices should be broadly applicable, considering different operators and operations. OEMs and type clubs may provide aircraft-specific information and or resources.</p>
Time Line:	12 months
Target Completion Date:	May 1, 2019

Output 3:	
Description:	Promote the guidelines/recommended practices for helicopter inspections to the training community and the general pilot community.
Lead Organization:	HAI SC
Supporting Organizations:	<ul style="list-style-type: none"> • FAA AFS-800 • FAAST • USHST SEA Training Team
Actions:	<ol style="list-style-type: none"> 1. HAI SC and USHST SEA Training Team to conduct outreach to training providers regarding inspection guidelines/recommended practices. 2. HAI SC and USHST SEA Training Team to present guidelines/recommended practices at key industry events. 3. HAI SC to brief the Airman Certification Systems (ACS) Working Group on guidelines/recommended practices to inform inspection requirements in standards. 4. FAAST to conduct outreach on emphasizing appropriate inspections, including thorough use of the guidelines/recommended practices, to designated pilot examiners for initial applicants as well as applicants for advanced certifications and ratings. 5. FAAST to conduct outreach on emphasizing appropriate inspections to the pilot community.
Output Notes:	At the time that this H-SE was drafted, the ACS Working Group had not yet been chartered to include helicopter.
Time Line:	12 months
Target Completion Date:	May 1, 2020