Attend the Vertical Aviation Safety Team 2022 Global Conference

Join Your Colleagues in Improving Safety in the VTOL Industry

Special Tracks for: Operations | Maintenance | Advanced Air Mobility
Hear Industry Leaders on: Technology | Best Practices | Infrastructure
Lessons Learned | The Future of VTOL

3 Days of Networking & Education!

CONFEREECE AGENDA

DAY 1
Sessions for the Global VTOL Community

DAY 2
Three Focus Areas
- Operations
- Maintenance
- Advanced Air Mobility

DAY 3
Global Perspectives
- Safety
- Technology
- Heliports

*Registration required for all attendees, including those seeking WINGS, AMT, or Inspection Authorization credits.
The USHST is a regional partner to the Vertical Aviation Safety Team (VAST).

**USHST GOAL**: Reduce the 5 year average fatal US helicopter accident rate to 0.55 fatal accidents per 100K hrs by 2025

**USHST Vision**: A Civil Helicopter Community with Zero Fatal Accidents

### Metrics

<table>
<thead>
<tr>
<th>Metric</th>
<th>2018 - 2022</th>
<th>2017 - 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg Fatal Acc Rate</td>
<td>0.80</td>
<td>0.76</td>
</tr>
<tr>
<td>Avg Accident Rate</td>
<td>4.22</td>
<td>4.04</td>
</tr>
</tbody>
</table>

### Year To Date

<table>
<thead>
<tr>
<th>Year To Date</th>
<th>Current Year (CY22)</th>
<th>Previous Year (CY21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatal Accidents</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Accidents</td>
<td>77</td>
<td>63</td>
</tr>
<tr>
<td>Fatalities</td>
<td>21</td>
<td>23</td>
</tr>
</tbody>
</table>

### Average number of days between fatal accidents:

- 2018: 14 days
- 2019: 16 days
- 2020: 18 days
- 2021: 17 days
- 2022: 18 days

### Longest time between fatal accidents (past 5 yrs):

107 days (2020)

Each year the U.S. helicopter industry safely flies approx. 3 million flight hours and every second of every flight must be handled with professionalism.
Did “YOU” Know?
In the US there are 12,000 + helicopters, 32,000 + helicopter pilots and over 292,000 aircraft mechanics!
The USHST has identified the following industries for OUTREACH:
Personal/Private,
Helicopter Air Ambulance (HAA),
Commercial and Aerial Application

Your participation in joining our vision of zero fatal accidents is important to us. To determine how your interests best align with active USHST efforts, please click the link below to complete the form and submit.

JOIN/FOLLOW USHST
USHST Facebook (2510 Members, 38 New)  USHST LinkedIn  USHST Twitter

Helicopter Safety OUTREACH events:
- Next USHST All Hands Webinar - TBD
  Previous All Hands - (May 25, 2022)
- HAI Upcoming Events

Severity of Control - Inflight (LOC-I), Unintended Flight into IMC (UIMC), Low Altitude Operations (LALT).
USHST continues to work on the implementation of 16 Helicopter - Safety Enhancements (H-SE) developed through data-driven analysis of 104 fatal accidents. The H-SE’s use Outreach, Policy, Technology/Equipment, and Training to reduce fatal accidents in these categories.

H-SE 81: Simulators and Outside-the-Envelope Flight Conditions
Provide recommendations for mathematical/physics-based models for helicopter flight dynamics to achieve more realistic, higher-fidelity simulations of outside-the-envelope flight conditions. Current models are not accurate at edge-of-the-envelope and outside-of-the-envelope flight regimes. This may lead to unrealistic training of maneuvers such as loss of tail rotor effectiveness, vortex ring state/settling with power, and autorotations and a negative transfer of training when similar situations are encountered during actual flight.

1. FAA, industry, and academia to review existing helicopter simulator/physics-based models and conduct research/testing to develop recommendations regarding improved helicopter mathematical/physics-based models.
2. FAA AFS-200/AFS-800 to update advisory circulars AC120-45A and AC-61-136A (or create helicopter-specific variants) based on recommendations to facilitate use of improved fidelity helicopter flight dynamics models in helicopter simulators.
3. USHST Outreach Team to conduct outreach to simulator and flight training device manufacturers regarding recommendations for higher-fidelity mathematical models.

USHST PRIORITY Safety Resources:  Videos  Safety Apps  USHST Report on Safety Enhancements

US Helicopter Safety Team Press Release (December 2021):
“56 Seconds to Live” Safety Course Wins AIN 2021 Top Flight Award