**Mishap Review Questions**

**Aircraft Landing Mishaps**

This worksheet will help you use the Five M method to gather data when reviewing an aircraft mishap that occurred during landing. These might include a tail scrape, hard landing, runway excursion, prop strike, etc. Every mishap is unique. These questions are just a starting point to gather data before filling out the Mishap Review Template. Look at all factors and how they might have influenced this mishap.

**Member** – *In what way did the members (pilot, aircrew, other) influence this mishap?*

*- What was the maneuver the Mishap Pilot was performing?*

*-- Describe their normal technique, target airspeeds, aimpoint, configuration, etc.*

*- What differed from the “desired” parameters?*

*- What corrections were applied? When? Was a go-around considered?*

*- What was the pilot’s experience level? Last 90 days? Last 30 days? Last week?*

*- When was the last time the Mishap Pilot performed this maneuver?*

*- What there a check pilot or instructor on board? What role did they play? What actions?*

*- Was the pilot fatigued? Sick? Distracted? Stressed?*

*- What does the pilot (or other crew members) think went “wrong?” What would they change?*

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**Media** - *Was weather or the environment a factor?*

*- What is the runway composition and length? Multiple runways?*

*- Day/night? Lighting? Glare?*

*- What were the winds? Rain or snow? Temperature?*

*- Were there any obstacles to clear?*

*- Additional aircraft traffic?*

*- Other factors?*

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**Machine** – *Did the aircraft or any of its components have an effect on the mishap?*

*- Any mechanical issues with the aircraft?*

*- Weight and balance okay? Any open write-ups?*

*- Any issues with brakes? Flight controls? Engine? Avionics?*

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**Mission/Activity** – *Consider the type of landing, along with the overall mission complexity.*

*- Was the maneuver a briefed part of the mission profile?*

*- Was the maneuver discussed prior to beginning the maneuver?*

*- Was the maneuver appropriate for the flight profile?*

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**Management** – *Review supervision and the local/wing/region/national guidance that may have impacted this mission*

*- Was there anything notable on the pre-flight risk assessment or flight release?*

*- Was the crew qualified to fly this mission and maneuver?*

*- Is there any Wing/Region/NHQ guidance that could have contributed to this mishap?*

*-- Is there a need for guidance or training to address this situation?*

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**Mishap Summary** -- *Summarize the sequence of events that led up to and resulted in the mishap. Describe how each factor included in your Data Summary may have contributed to the mishap*

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**Causal Factors** -- *List the one or more causal factors; if not for these one or two specific events, the mishap would not have occurred. See CAPR 160-2, paragraph 6.8.3.1.*

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**Contributing Factors** -- *Contributing factors are preconditions or situations, found in your review of the Five Ms, which set the stage for the causal factor and the mishap or increased the severity or scope of the mishap. These are the areas where improvements or additional risk controls may be directed.*

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**Non-Factor Worthy of Discussion (NFWOD)** -- *List other issues or weaknesses that were discovered during the review process. These may not have contributed to this mishap but could be targets for improvement or new risk controls.*

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**Recommendations** – *As the Review Officer, you are very familiar with this mishap. Make recommendations on how to address contributing factors and help prevent similar mishaps.*

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