

Test Hazard Analysis Worksheet																																								
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Aircraft/System: Hughes 500																																								
Hazard: Exceeding Engine Turbine Outlet Temperature Operating Limitations																																								
Cause: Insufficient power available while hovering IGE or OGE.																																								
Effect: Damage to the engine.																																								
Minimizing Procedures: 1. During ambient OAT greater than 20C, reduce payload (fuel or passengers) as required to allow adequate power margin. 2. Utilize a TOT of 730 degrees C as a buffer from maximum takeoff power (749C) when hovering. 3. Make only small control movements and power changes .																																								
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Aircraft/System: Sikorsky S-55																																								
Hazard: Exceeding Manifold Pressre Operating Limitations																																								
Cause: Insufficient power available while hovering.																																								
Effect: Damage to the engine.																																								
Minimizing Procedures: 1. Maintain a minimum of 1.00 inch MAP buffer from maximum MAP power when hovering OGE. 2. Make only small control movements and power changes .																																								
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Aircraft/System: All NTPS Helicopters																																								
Hazard: Insufficient altitude OGC or forward speed to safely land after and engine failure or loss of tailrotor																																								
Cause: Hovering OGE in the Avoid Curve																																								
Effect: Damage to or loss of aircraft along with injuries to the flight crew.																																								
Minimizing Procedures: <ol style="list-style-type: none"> 1. Minimize the time spent in the avoid curve when OGE hovering 2. Ensure that a suitable landing spot is available at all times. 3. Conduct the demo using a low fuel state so as to minimize the collective/torque setting. 4. Crew will brief emergency landing procedures. 																																								
Emergency Procedures: <ol style="list-style-type: none"> 1. Lower collective immediately 2. Initiate forward movement 3. Carry out RFM emergency procedrues. 4. Time permitting, advise tower. 																																								
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Hazard: Exceeding Aircraft Limitations during climbs, descents or in level flight.																																								
Cause: Crew inattention.																																								
Effect: Damage to the aircraft and/or its components.																																								
Minimizing Procedures: <ol style="list-style-type: none"> 1. Maintain a 10% buffer from all relevant aircraft limits. 2. When near aircraft limits, make only small control movements and power changes. 																																								
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