

Test Hazard Analysis Worksheet						
Test Title: Transonic Effects Demo	Subjective Probability of Occurrence					
	Hazard Category	high	probable	uncertain	remote	improbabl
Aircraft/System: SK-35 Draken	catastrophic	High	High	Medium	Low	Very Low
	critical	High	High	Medium	Low	Very Low
	marginal	Medium	Medium	Medium	Low	Very Low
	negligible	Low	Low	Low	Low	Very Low
Hazard: Loss of control						
Cause: Inadvertently exceeding stall AOA during Mach 'Dig-in' demonstration						
Effect: Loss of aircraft, death or injury to aircrew						
Minimizing Procedures: The flight briefing will emphasize the anticipated pitchup while slowing from supersonic to subsonic speeds. Maximum AOA should be no more than 12°. Stall warning (stick shaker) occurs at 15° and pitchup occurs between 18° and 24° AOA. The deceleration into the demonstration will be done at a maximum of 4.0 g's. The demonstration will be concluded at the first indication of an uncommanded 'g' increase. The instructor will abort the maneuver if load factor exceeds 6.0 g's The minimum altitude for the demonstration will be 30,000 ft MSL. (27,000 ft AGL)						
Emergency Procedures: If departure from controlled flight occurs, the instructor will immediately take control and effect the flight manual recovery procedure.						
Risk Level (after minimizing procedures taken into account): High ____ Medium ____ Low <u> X </u>						

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Hazard: Fuel Starvation						
Cause: Loss of situational awareness during high fuel flow conditions and/or fuel transfer malfunction during high fuel flow points						
Effect: Loss of aircraft, death or injury to aircrew						
Minimizing Procedures: Bingo fuels will be strictly adhered to: a minimum of 1300 lbs within 10 nm and an additional 100 lbs per 10 nm distance from Mojave. If bingo fuel is reached, afterburner will be terminated and RTB initiated at 0.85M or 350 KIAS, whichever is lower. Fuel checks will verbally include the delta between the F and R needles of the FCP fuel gauge, e.g. "3800 lbs with a 50 lb split". Afterburner will be terminated if the split exceeds 200 lbs. The flight will be planned so that high fuel flow points (i.e., the supersonic acceleration) will be done with the aircraft headed towards Mojave.						
Emergency Procedures: If a critical fuel situation is inadvertently reached, land at the nearest suitable field, to include Edwards AFB (tower freq: 318.1).						
Risk Level (after minimizing procedures taken into account): High ____ Medium ____ Low <u> X </u>						