

Practical Risk Management For Takeoffs and Landings

PAVE Checklist

PAVE your way to a safe takeoff and landing. Before you fly, examine your risk factors.

Remember the cumulative effect. Change your plan whenever more than one risk factor is marginal.

Pilot
Aircraft
Venvironment
External Pressures

Pilot

Make a frank assessment of your own skills.

- Are the takeoff and landing conditions within my personal minimums?
- Am I proficient for the runway length and surface condition?
- Do I have recent experience to safely fly in today's wind conditions?
- Am I able to land the airplane exactly when and where I need to for today's flight?

Aircraft

Evaluate the capability of the aircraft.

- Can this airplane safely takeoff and land in today's conditions?
- Are the winds for takeoff and landing within the maximum demonstrated crosswind component?
- Is the runway length sufficient for this aircraft considering:
 - this surface and in these conditions?
 - the current density altitude?

enVironment

Evaluate the environmental factors at the airport and on any of the runways.

- What is the crosswind component on the runways I will use?
- Are the runways slick from water, snow, or slush?
- Are braking action reports available?
- Will conditions at my destination require an approach with a tailwind landing?

External Pressures

Evaluate pressures that influence you to make or complete this flight.

- Does someone else's plans depend on me completing this flight?
- Are peers encouraging me to takeoff or land despite the conditions?
- What are my strategies for managing the external pressures specific to this flight?



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CARE Checklist

Use the **CARE** attention scan to recognize and manage the changing risk factors in flight and for landing.

Manage your workload so that you have time to use the **CARE** checklist to deal with changes.

Consequences
Alternatives
Reality
External Pressures

Consequences

- What is changing at my destination and alternate? What are the consequences?
- Are the wind strength, gusts, or crosswind component more than I anticipated?
- Will moisture and temperature changes create a different runway condition since my departure?

Alternatives

- Do I have more than one alternative course of action?
- Are conditions changing so that I need new alternatives?
- Should I land now to expand my circle of alternatives and remove pressure to land in adverse conditions?

Reality

- Have I accepted the fact that landing conditions at my destination airport have changed?
- Has the goal to land at my destination put me in denial?
- Am I dealing with things *as they really are* at my destination, or am I continuing just as planned?

External Pressures

- Am I ignoring risk factors in order to reach my destination?
- Am I managing my own goal-oriented behavior?
- Are pressures influencing me to land under unsuitable conditions?

