

THE MAINTENANCE DIRTY DOZEN

Helicopter Accident Prevention

Small Oversights. Serious
Consequences.



ABOUT ME

40 years in aviation

Started at Northrop on F/A-18 and F-5 programs

FAA A&P Mechanic

Pilot 23,000 + flight hours



THE DIRTY DOZEN

1. Lack of Communication
2. Complacency
3. Lack of Knowledge
4. Distraction
5. Lack of Teamwork
6. Fatigue
7. Lack of Resources
8. Pressure
9. Lack of Assertiveness
10. Stress
11. Lack of Awareness
12. Norms

Complacency
Lack of Knowledge
Distra

Bob Muse



COMMON FAILURE POINTS

Missed inspections

Improper installation

Configuration errors

Incomplete documentation



HELICOPTER-SPECIFIC RISKS

Rotor systems

Flight controls

Torque and safetying

Post-maintenance flights



DISCIPLINE & STANDARDIZATION

Use the manual every time

Never rely on memory

Protect the process

Slow down at critical points



PRESSURE & FATIGUE

Schedule pressure creates shortcuts

Fatigue reduces judgment

Interruptions create errors



WHAT GOOD MAINTENANCE LOOKS LIKE

Professional pride

Strong communication

Continuous training

Attention to detail



FINAL THOUGHT

The aircraft only knows the quality of the
work performed

Do the small things right

Every aircraft. Every time.



QUESTIONS & DISCUSSION

Maintenance

Safety

Standardization

