



**Encyclopedia of NASA Lessons Learned:
Thousands of Aerospace Technology Engineering
Reports on Problems, Accidents, Mishaps, Ideas
and Solutions - Space Shuttle, Spacecraft, Rockets,
Aircraft**

U.S. Government, National Aeronautics and Space Administration (NASA), World Spaceflight News (WSN)

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Discover what NASA has learned during the last few decades of spacecraft and aircraft flight operations and on-the-ground engineering activities! We've gathered thousands of detailed reports from the NASA Public Lessons Learned System (LLIS). The NASA Lessons Learned system provides access to official, reviewed lessons learned from NASA programs and projects. These lessons have been made available to the public by the NASA Office of the Chief Engineer and the NASA Engineering Network. Each lesson describes the original driving event and provides recommendations that feed into NASA's continual improvement via training, best practices, policies, and procedures.

The reports frequently include practical advice suitable for anyone with responsibilities in any technical or engineering endeavor, not just the aerospace industry. Vehicles in the reports include the Space Shuttle, many unmanned spacecraft and satellites (including Mars landers and rovers), experimental programs, aircraft, rockets and launch vehicles.

Not everything is rocket science, however; for example, there is a report about the hazards of keeping pressurized containers in hot automobiles. Cross-cutting issues are covered, such as "ESD: An Enduring and Insidious Threat to Flight Hardware (A Cornerstone Lesson)" provide unique insights gleaned from NASA experience. There is extensive material on components and parts.

Look for the fascinating entry by a retired Associate Director of Flight Projects at NASA Goddard Space Flight Center (GSFC) providing over 100 lessons learned for project managers. An example: "Redundancy in hardware can be a fiction. We are adept at building things to be identical so that if one fails, the other will also fail. Make sure all hardware is treated in a build as if it were one of a kind and needed for mission success."

Topics covered: Accident * Activity * Administration * Advisory * Aerospace * Aided * Air * Aircraft * Article * Assessment * Assurance * Business * Communication * Computer * Computers * Configuration * Cryogenic * Design * Development * Devices * Disposal * Education * Emergency * Energetic * Energy * Engineering * Environment * Equipment * Explosive * Explosives * External * Extra * Facilities * Facility * Factors * Financial * Fire * Flight * Ground * Handling * Hardware * Hazardous * Health * Human * Independent * Industrial * Information * Investigation * Launch * Lifting * Logistics * Management * Manufacturing * Materials * Medical * Mishap * Mission * Nasa * Occupational * Operations * Organization * Packaging * Panel * Parts * Payloads * Personal * Phase * Planning * Policy * Preparedness * Pressure * Processes * Processing * Procurement * Program * Project * Propellant * Protection * Protective * Protocol * Pyrotechnic * Range * Redundant * Relations * Reporting * Requirements *

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Glenn Research Center * Goddard Space Flight Center * NASA Headquarters * NASA IVV * Jet Propulsion
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