



LASP's NASA Supplier Assessment Experience

NASA Supply Chain 2010 Conference

LABORATORY FOR ATMOSPHERIC AND SPACE PHYSICS A RESEARCH INSTITUTE OF THE UNIVERSITY OF COLORADO BOULDER, COLORADO



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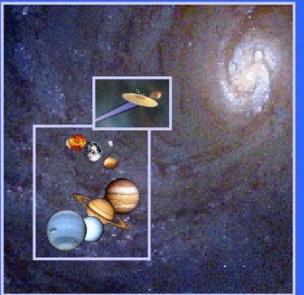
LASP conducts theoretical and experimental research in...

- Planetary Physics
- Solar Influences
- Atmospheric Sciences
- Space Physics



LASP has successfully developed scientific instrumentation for...

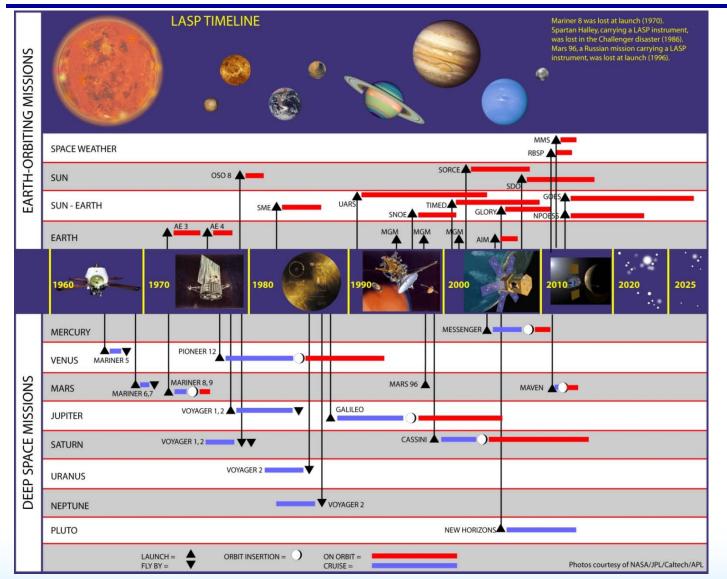
- 12 Deep Space Missions
- 14 Earth-Orbiting Missions
- 220 Sub-Orbital Rocket Experiments











LASP has sent instruments to every planet in the solar system and beyond (Voyager)



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Internal Facilities













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- Gap Audit for ISO/AS9100 2003
 - Implemented a Database for Record Archiving
- First NASA Supplier Assessment 2004
- Configuration Management Uniformity Across Programs 2005
 - AGILE ™ Database for Review, Signoff, and Release
- LASP Takes Steps Toward ISO Compliance 2007
 - Cavendish Scott Consultants for ISO System Implementation
 - QMS Content Input
 - Ongoing system support on request
 - PROVIT (PROcess Value & Integrity Team)
 - LASP-Centric Focus on Current Processes
 - All Departments Represented
 - Process Owners Assigned



Quality Management System Implementation Ongoing







- NASA Contract Assurance Services (NCAS) facilitated provision of professional resources to assist with industrial safety program development
- Performed pre-assessment evaluation in preparation for 2008 NCAS assessment
- Supporting LASP's QMS development efforts

NCAS wants to see us succeed!





LASP's Assessment Preparation

- Involve personnel at every level
- Hold audit prep "fish bowl" meetings
 - Make them casual and fun
 - Help to dispel anxiety about the audit
- Perform facility walk-through a few weeks in advance
 - Assign actions
 - Follow-up in time for final adjustments prior to assessment
- Make a schedule of personnel availability for interviews
 - Helps auditors make the most efficient use of time
- Assign escorts for auditors and points of contact for observers
- Have "runners" available to assist



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Lessons Learned

- Alert the lead auditor, well in advance, of any previous assessment findings that will not be ready for verification
- Provide appropriate work space for the assessment team
- Have contracts and procedures organized and available
- Give the assessment team a thorough in-briefing
 - Status progress from previous assessments
 - Identify any known gaps
 - Introduce escorts
- Invite employees to briefings
 - Everyone wants to do well, so keep them involved
- Give NCAS feedback on their Supplier's Assessment Process
 Evaluation form
 - Give all participants the opportunity to provide input
 - A single evaluation from the management representative may give a narrow point of view





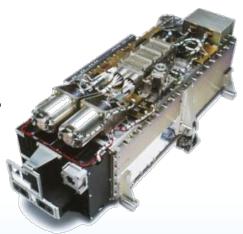








- Provides opportunity to present our organization at its best, and to display our capabilities
- Eliminates need for multiple assessments by individual programs
 - Gives programs visibility into how our organization is handling the projects
- Motivates personnel to action
 - Periodic assessments help us to set our goals
- Promotes continual improvement









- Lots of time, planning and preparation required
- Limited university resources add to the challenge
- The quality manager has a significant amount of responsibility in the process
- We disagree with some findings



The process is exhausting, but rewarding







- Controlled, documented processes allow for effective training as the lab grows
- Process consistency helps everyone



- Periodic audits provide a way for us to measure our abilities
- Organizational cohesiveness around quality and safety is emerging at LASP
- Continual improvement is becoming embedded in the LASP culture

