

JAXA S&MA Initiative to Accomplish JAXA Mid Term Plan



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JAXA Mid Term Plan

- JAXA, as one of Incorporated Administrative Agencies in Japan, is obliged to establish a Mid Term Plan every five years.
- FY 2008 is the first year of the 2nd Mid Term.
- On April 1st 2008, S&MA Initiative was launched to accomplish the objectives of the 2nd Mid Term Plan

JAXA Long Term Vision

1. Build secure and prosperous society
2. Advance our knowledge on the universe and broaden the horizon of human activity
3. Carry out autonomous space activity
4. Develop space industry
5. Develop aviation industry and realize breakthroughs for future air transportation

Mid Term Plan

Contribution by S&MA

S&MA Goal

100% Success

Recurrence Control/
New-Failure Prevention



No Failure
in Space

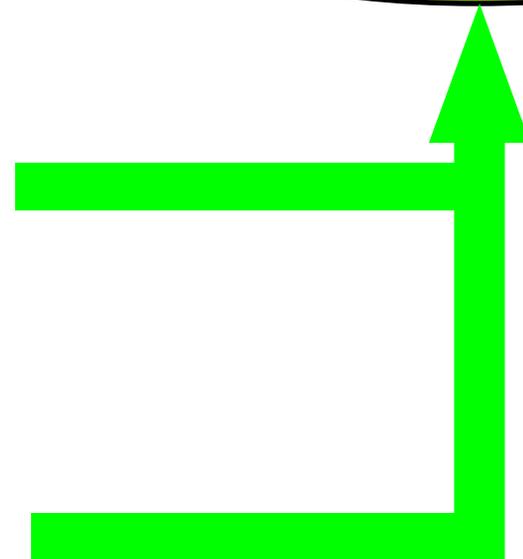
- Eliminate failures leading to the loss of mission
- Eliminate sources of failures
- Continue/ improve established S&MA activities
- Enrich daily S&MA activities

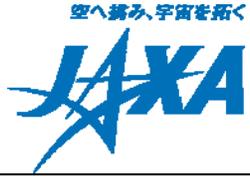
Establishment of
Engineering Basis



Sound Design &
Manufacturing

- Utilization of verified parts and components
- Thoroughly verified new technology and modification
- Strengthen focused engineering discipline
(parts, M&P, software, system test)





Items for Consideration

1. Role Sharing between Industry and JAXA
 - (1) Development vs. Procurement
 - (2) H-IIA commercialization
 - (3) Procurement from world wide industries

2. Engineering Movement
 - (1) Failures, experienced on-orbit, affected operations
 - (2) Brand new technologies incorporated into various spacecrafts
 - (3) Software's rapid increase in flight elements

3. Importance of Daily Activities
 - (1) Prompt/effective knowledge transfer
 - (2) Deepen and expand engineering base
 - (3) Continual S&MA management

Major S&MA Initiatives

Strengthen Test and Analysis

- Identify invisible failures
- Thorough verification for brand new/modified technologies

- S&MA Engineering
- S&MA Awareness
- S&MA Information Transfer

New Procurement Process

Software Development Process Improvement

Comprehensive Parts Management
- Strategic plan/development

Top Level Review

- JAXA President's Technical Review
- External Evaluation for JAXA