Software Quality Assurance

Harry K. Utterback

Phone: (301) 953-5000 x8672

Fax: (301) 953-6669

E-mail:

Topics of Discussion

- Responsibilities
- Organization
- Activities
- Configuration Management
- Design Reviews

SQA Responsibilities

- Project Level Software Quality Assurance
- Software Development Standards
- Quality Assessment Mechanisms
- Software Development Process

SQA Organization

- Report to Project Manager
- Issues are resolved by negotiation
- Non-compliance issues settled at the Department level

SQA Activities

- Promote Software Process Improvement
- Provide IV&V Management
- Perform Software Process Audits
- Chairs Software Configuration Control Board
- Approves Software Development Plans
- Approves Software Test Plans
- Participates in all Software Design Reviews

SQA Configuration Management

- Baseline after each Review

- Documents *

- Code

- Certify software to be loaded on spacecraft

- *Aerospace Corporation exceptions

SQA Design Reviews

- Software Requirements Review

- Software Preliminary Design Review

- Software Detailed Design review

- Software Code Walkthroughs/Inspections*

  - *Aerospace Corporation exceptions