JUN 19 2001

S&MA Mission Services
Task Directive

Control No. 003 TD ~~QS21-SVTD-000~~	PROJECT CODE: 2nd. Generation Launch Vehicle	Contract No. NAS8-2nd GEN
Originator's Signature: TA-6 Kyle Daniel Kyle Daniel	Date: 4/26/2001	Originator's Priority: High
Office Manager's Signature: QS21 Space Vehicle Manager	Date: 4-26-01	
COTR's Approval: Terry L. Hart	Date: 6-1-01	

Subject: Safety & Mission Assurance support for the 2nd. Generation Launch Vehicle – TA-6

Task Description:

Safety (WBS-list applicable)

1) Support 2nd. Gen TA teams to assure safety requirements understood and incorporated in design
2) Support development of S&MA Plan
3) Support Milestone Reviews (SRR, PDR, CDR, SRP, etc)
4) Review Safety Data Package/Hazard Analysis provided by TA contractors
5) Support Safety Review Panels (NASA headquarters and Military Ranges, as applicable)
6) Evaluate Software Safety effort of the contractors for the TA projects
7) Evaluate project design changes for safety impacts
8) Review Verification Plans/procedure/closures
9) Ongoing Safety Assessment of contractor design through all project phases

R&M (WBS-list applicable)

1) Support development of S&MA Plan
2) Support TA project teams
3) Support Milestone Reviews, (SRR, PDR, CDR, etc)
4) Review accuracy of contractor provided FMEAS, Fault Trees, Predictions and Risk Assessments
5) Support PRA evaluations provided by the contractors

Quality (WBS-list applicable)

1) Support TA Team meetings and TIMs
2) Support development of S&MA Plan and prepare or evaluate the Project Quality Plan
3) Participate in Milestone Reviews (SRR, PDR, CDR, DCR, AR, FRR, etc.)
4) Perform inspections and assessments of contractor processes and hardware
5) Evaluate contractor Software Quality Assurance effort
6) Support audits and Acceptance Reviews
7) Evaluate engineering changes
8) Support Failure and Problem Analyses and the non-conforming materials process
9) Support hardware and Test Readiness Reviews

Project Assurance (WBS-list applicable)

1) Coordinate the HEI / S&MA support activities with the NASA S&MA TA leads
2) Participate in the milestone reviews, data reviews, safety reviews and readiness reviews and operations
3) Coordinate the HEI S&MA activities with the S&MA project lead to include resource statusing
4) Brief TA Project Management on technical issues on as required basis
5) Support the development of the 2nd. Gen requirements and verification

S&MA Mission Services
Task Directive

JUN 19 2001

Control No. ~~QS21-SVTD-000~~ 003 **PROJECT CODE:** 2nd. Gen **Contract No.** NAS8-2nd GEN

Deliverables:

Safety
1) Safety inputs to the S&MA Plan
2) Safety documentation to support Milestone Reviews (generation and closure of Review Item Discrepancies)
3) Safety Data Package as appropriate for various Safety Reviews
4) Document and brief safety deficiencies identified through out the project phases

R&M
1) Reliability inputs to S&MA Plan, engineering changes, etc.
2) Reliability review comments to Milestone Review documentation
3) Evaluate contractor provided FMEAs, Fault Trees, PRAs and Risk Assessment
4) Provide milestone review support (generation and closure of Review Item Discrepancies)

Quality
1) Quality input to S&MA Plan, Project Quality Plan, engineering changes, problem analyses, etc.
2) Review comments for Milestone Review documentations
3) Inspection reports
4) Document findings and recommended correcting actions resulting from contractor audits and assessments
5) Provide milestone review support (generation and closure of Review Item Discrepancies)

Project Assurance
1) Provide status of functional discipline support to the TA's to S&MA
2) Identify areas where addition FTE resources are required and facilitate implementation of the additional resources
3) Provide milestone review support (generation and closure of Review Item Discrepancies)

Schedules/Duration:

1) Support schedules as defined by the Project
2) *Define the anticipated life of project requiring support*

Resource Estimate:

(b)(4)

**** Additional in-house tasks may be identified and will be negotiated at a later date***

Report Progress To: *S&MA Project Lead*		Frequency of Report: Weekly