

~~Secret~~DETAILED SCHEDULE ITEMS1. PRELIMINARY PLANNING

- a. Outline basic mission
- b. Define contract requirements
- c. Establish procurement priority
- d. Prepare specifications
- e. Prepare complete schedule for all satellite work
- f. Establish contract delivery dates
- g. Prepare technical description of overall mission
- h. Establish tentative launch date
- i. Launch window calculation

2. SYSTEM DESIGN

- a. Mission definition, final
- b. Experiment integration requirements
- c. Telemetry data format definition
- d. R.F. system parameters--frequency request
- e. Command system requirements
- f. Attitude control requirements
- g. Block diagrams
- h. Mechanical design
- i. Outline required circuit development
- j. Power supply design
- k. Ground support requirements
- l. Definition of responsibility
- m. Quality control procedures
- n. Schedule review, contractor progress
- o. Launch support documentation

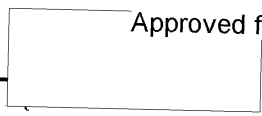
3. DEVELOPMENT WORK

- a. Circuit design and development
- b. System integration simulation
- c. Temperature and voltage tests
- d. Preliminary design review
- e. Modify and re-test as required
- f. ~~Flight comp~~ and testing
- g. Detailed me

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- h. Mechanical fabrication priority established
 - i. Fabrication of mock-up and test models
 - j. Mechanical testing, evaluation, fit checks, and handling slings
 - k. Final mechanical drawings and design review
 - l. Power supply design, testing and evaluation
 - m. Attitude sensor design, construction, and testing
 - n. R.F. tests on mock-up
 - o. Schematic drawings and wiring diagrams
 - p. Test panel design (system and subsystem)

4. FLIGHT HARDWARE CONSTRUCTION

- a. Subsystem mechanical fabrication and fit checks
- b. Structure fabrication
- c. Printed circuit layout
- d. Layout review by circuit designer
- e. Printed circuit construction and subsystem chassis wiring
- f. Wiring harness and cable construction
- g. Power supply fabrication
- h. Ground support equipment construction
- i. Quality control inspection--all flight items
- j. Photographic records of all new components
- k. Test panel construction (system and subsystem)

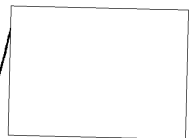
5. SUBSYSTEM TESTS

- a. Overall quality control check and review of documents
- b. Establish test procedures and interface test requirements
- c. Contractor supplied equipment received and tested
- d. Subsystem de-bugging using simulated interface conditions
- e. Temperature, voltage, optical, and magnetic tests
- f. Performance review and design evaluation
- g. Modification and re-test as required
- h. Construction and testing of backup units for non-repairable subsystem
- i. Attitude control systems complete, tested and quality control checked
- j. Selective vacuum tests as required

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6) PRELIMINARY SATELLITE ASSEMBLY AND TESTING

- a. Delivery of subsystems and experiments with complete documentation to assembly area (all items weighed and recorded)
- b. Payload log book started
- c. Mechanical work required for mounting
- d. Photographic records of any significant items
- e. All systems functional testing (de-bugging)
- f. Preliminary R.F. tests, (pattern, signal level, record telemetry and RFI)
- g. Overall performance and design review
- h. Decision made concerning an all systems (temperature only) test versus a flight configuration thermal vacuum test. (Thermal only test done here.)
- i. Preliminary mechanical configuration checks as required

7. FINAL ASSEMBLY AND TESTING

- a. Final potting and cable tie down
- b. Installation of flight shell
- c. Attitude control system alignment and testing (photographic records required)
- d. Attitude sensor alignment and testing (photographic records required)
- e. Solar cell installation
- f. All systems functional test

8. FLIGHT CONFIGURATION TESTS

- a. Free space simulation, RFI
- b. Thermal vacuum (see 6h)
- c. Balance
- d. Moment of inertia
- e. Magnetic moment measurement
- f. Centrifuge (if required)
- g. All systems functional test and mechanical inspection
- h. Vibration tests
- i. All systems functional test and mechanical inspection
- j. Attitude control operation and alignment test
- k. Final mechanical fit checks and R.F. systems compatibility (all payloads)

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- l. Recheck magnetic moment
- m. Flight readiness review

9. FIELD OPERATION

- a. Preparation of field schedule
- b. Selection of field crew
- c. Shipping preparations
- d. Detailed procedures for field testing
- e. Establish early orbital ground support
- f. Test equipment requirements
- g. Launch site ground station preparation
- h. Launch operation
- i. Post launch performance analysis

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