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DETAILED SCHEDULE ITEMS

1. 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 tenative launch date
   - i. Launch window calculation

2. SYSTEM DESIGN
   - a. Mission definition, final
   - b. E periment 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

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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 [illegible] and testing
   - g. Detailed mechanical design

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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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