130-230 17 Mar 1968 Branch Review outline

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1. SYSTEM DESCRIPTION

   a. Frequency Coverage
   b. Sensitivities
   c. Antenna Patterns
   d. Stabilization Requirement

2. SYSTEM REQUIREMENTS AND PLANNING

   a. Effects of Previous Missions
   b. Collection System Mock-Up
   c. Preliminary Antenna Configuration ✓
   d. Compatability with overall system
   e. Coordination

3. PROCUREMENTS

   a. Initial Estimated Requirements (concept)
   b. Specification Updating
   c. Coordination with Wonctractors (priorities and performance)

4. SYSTEM DEVELOPMENT

   a. Test Facility - Shielded Room, Anechoic Chamber ✓
   b. Acceptance Tests (Including Temperature) ✓

      1. Filter Detectors
      2. T.D. and Transistor Preamps
      3. Video Amps
      4. Antennas
      5. Cable Assemblies and Related Components

   c. Collection System Integration

      1. Selection of Matched Components
      2. Mechanical Finalizing
      3. Mechanical Assembly - multiple band stacks
      4. Cabling

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d. Detailed Performance Measurements in Temperature

1. Overall Sensitivity - Antenna Input to Modulator
2. Bandpass Characteristics
3. Threshold Level Calibration
4. Noise Level
5. Variations with Voltage Change

To be used for future correlation

e. System Sensitivity Including Antennas

Installation of All Bands into a basic structure (shell)

1. Anechoic Chamber Pictures ✓
2. Antenna Shading and Interaction
3. Antenna Patterns (Absolute) ✓
4. Calibration
5. Power Density Computation

f. Documentation

1. Photographs ✓
2. Layout Drawings ✓
3. Component and Calbe Indeitification

} Assure that the collection systems are properly assembled in the payload.

5. INTEGRATION

a. Installation of Packages and Antennas

6. SYSTEM TEMPERATURE AND VIBRATION

a. Instrumentation Calibration
b. Correlation Measurements
c. Measurements Procedure for Repeatability

7. WEST COAST CORRELATION MEASUREMENTS

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8- what are critical needs for accelerated 7107(QRC)?

9-

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