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PRELIMINARY MAINTENANCE PLAN  
HIGH PRECISION STEREOCOMPARATOR

*Sept 1967*

1. INTRODUCTION

1.1 The [ ] HPS scheduled to be installed [ ] during the last quarter of FY 70 will require emergency maintenance during the test and evaluation phase and preventive and emergency maintenance during its operational life.

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2. MAINTENANCE CONCEPT

2.1 The EPB/ESD/TSSG shall be responsible for providing in-house or obtaining contractual preventive and emergency maintenance during the instrument's operational life. Emergency maintenance, including spare parts required during the test and evaluation phase at NPIC, shall be the responsibility of the R&D contractor.

2.2 Maintenance of software shall be the responsibility of AID/PSG except for standard test or diagnostic routines used for equipment maintenance purposes which will be the responsibility of EPB/ESD/TSSG.

2.3 Maintenance will include periodic checks for accuracy for machine calibration purposes. Special targets and diagnostic programs may require development under a separate contract.

2.4 Maintenance of the HPS Clean Room to predetermined levels shall be the responsibility of LB/SSD. Clean room environmental monitoring data shall be made available to ESD for maintenance problem analysis when necessary.

2.5 First echelon maintenance levels will be determined jointly by EPB and the operating division.

3. SPARE PARTS

3.1 Spare parts required for preventive and emergency maintenance during the machine's operational life will be procured under contract. Procurement action will be initiated by ESD.

3.2 Spare parts storage space will be required at the Stereocomparator location. Three 36" X 18" double-door cabinets should be adequate for this purpose.

Declass Review by NIMA/DOD

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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#### 4. SPECIAL TOOLS

4.1 Special tools and test equipment required for maintenance purposes will be determined during the course of the development contract. Contractor recommendations will be reviewed by ESD.

4.2 Special tools and test equipment not included in the development contract will be procured by ESD to become part of the ESD tool and test equipment inventory.

#### 5. MAINTENANCE DATA

5.1 Maintenance manuals and engineering data required for preventive and emergency maintenance and calibration shall be provided under the terms of the development contract. Manuals and engineering data will be reviewed by ESD personnel for adequacy during the development contract period of performance.

#### 6. TRAINING

6.1 Maintenance training for lead technicians will be acquired during periodic visits to the contractor facility during the development phase. Additional training will be acquired during the test and evaluation phase at the Center.

6.2 Maintenance training on the [redacted] Computer will be required for two electronic specialists. Training will consist of three weeks (estimated) of instruction at a [redacted] location and preferably two separate sessions.

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6.3 Special training on the optical subsystem will be required for one optical technician, two to three weeks in February 1970, working with [redacted] personnel during optics installation and check-out [redacted] Familiarization with procedures, including degree of difficulty, will aid decision on amount of contractual maintenance support required.

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#### 7. FUNDING

7.1 Funding (FY 70) will be required for spare parts for the Stereocomparator. Budgeting (forecasting and requisition initiation) provisions are the responsibility of ESD.

7.2 Funding (FY 70) will be required for any special tools required for maintenance and calibration of the machine. Budgeting (forecasting and requisition initiation) provisions are the responsibility of ESD.

7.3 Funding (FY 70) for training on the [redacted] Computer will be required. Requirements will be determined by EPB/ESD and TB/SSD.

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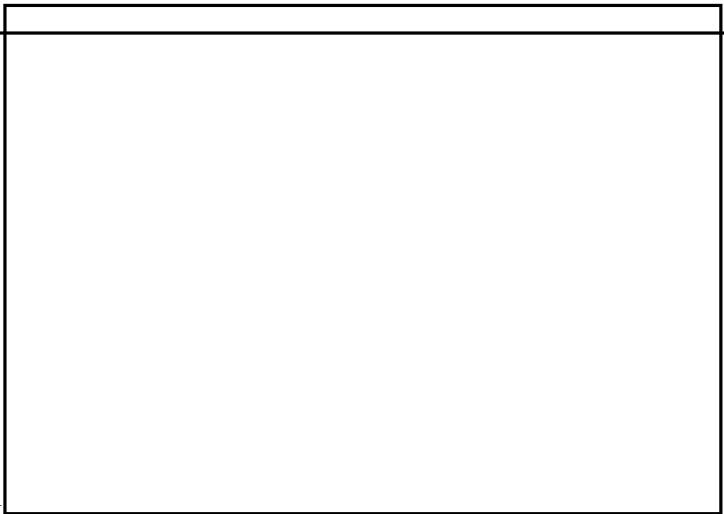
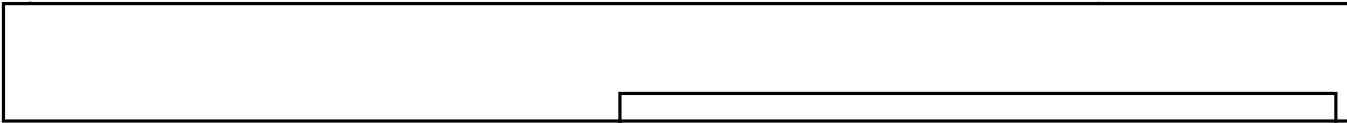
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7.4 Funding (FY 71) for contract maintenance support may be required. Budgeting provisions (forecasting and requisition initiation) are the responsibility of ESD.

8. MANPOWER

8.1 The manpower requirement for preventive and emergency maintenance and calibration is estimated at one man-year on a continuing basis.

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