File

STATOTHR

# Memorandum

[redacted]

Memo No: 1139 STATOTHR

Rec'd 19 May 64

TO: Contracting Officer

STATOTHR FROM: [redacted] Project Engineer, E80

SUBJECT: April Progress Report, [redacted] STATOTHR

DATE: 30 April 1964

A. General

Progress this month has been better. The coordinatograph assembly has arrived and appears to move quite smoothly by hand. The motors and tachometers are being installed now, though, the motor control system is not yet complete.

The control cabinets, painted green outside, white inside, have arrived. The pre-wired racks are being installed and further testing will continue.

The paper feed system design is complete and manufacturing has begun.

See the schedule EY007 for further details.

B. Schedule

| | Major Project Tasks | Percent Complete | Percent Required By Project Schedule |
|---|---|---|---|
| I | System Engineering | 100% | 100% |
| II | Subsystem Design | 90% | 100% |
| III | Construction and/or Purchasing and Assembly | 30% | 60% |
| IV | Testing and Debugging | 20% | 30% |
| V | Final Inspection | 0% | 0% |

C. Summary of Progress

1. Programming

We sent a table of the data format BJ0002 for information to the programmers.

2. Room Preparation

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We called the GSA to check on progress and found that [redacted] the electrical engineer assigned to the job, has been transferred. Mr. [redacted] mechanical engineer is still working on the coolant system, however, even he has been busy on other special projects. [redacted] will be taking the responsibility for the job now and expects that work will begin soon. He will keep in close touch with us.

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The general plan is to start with 85°F air, pass it over a pre-cooling coil at 650 cfm, then pass only 100 cfm of that over a small chemical dehumidifier. Next it will pass over an after cooling coil which will have the required output of 42°F, 45% rh air. Since we will have a closed system the small sized humidifier will amply take care of the problem.

3. Planned Work Effort

The general schedule is as follows:

May

1. Transfer velocity loop rack to main cabinet.
2. Install all printed circuit boards and test electronics.
3. Assemble miscellaneous mechanical parts.

June

1. Test servos on coordinatograph.
2. Test electronic control.

TWT/bd

Progress Report on Project Tasks

| Project Tasks | Labor Effort Percent Complete |
|---|---|
| 1. System Engineering - Develop subassembly specifications | |
| A. Coordinatograph | |
| 1. Structure | 100 |
| 2. Drive System | 100 |
| 3. Human Engineering | 100 |
| 4. Paper Feed Subsystem | 100 |
| 5. Writing Head | 100 |
| B. Electronics Control | 100 |

| Project Tasks | Labor Effort Percent Complete |
|---|---|
| II. Subsystem Design | |
| A. Coordinatograph | |
| 1. Structure | |
| a. Support and Table | 100 |
| b. Gantry and Carriage | 100 |
| c. Vacuum Platen | 100 |
| 2. Drive System | |
| a. Power Control | 100 |
| b. Power Supply | 75 |
| c. Test Apparatus | 100 |
| d. Heat Load Calculations | 100 |
| 3. Human Engineering | |
| a. Manual Controls | 75 |
| b. Cabinetry | 100 |
| 4. Paper Feed Subsystem | 75 |
| 5. Writing Head | 100 |
| B. Electronic Control | |
| 1. Detailed Logic | 75 |
| 2. Special Circuit Design | 75 |
| 3. Rack and Cable Allotment | 50 |
| 4. Axis Instrumentation | 100 |
| 5. Heat Load Calculation | 100 |

| Project Tasks | Labor Effort Percent Complete |
|---|---|
| I. Testing and Debugging | |
| A. Coordinatograph | |
| 1. Structure | |
| a. Support and Table | 0 |
| b. Gantry and Carriage | 0 |
| c. Vacuum Platen | 0 |
| 2. Drive System | |
| a. Power Control | 0 |
| b. Power Supply | 0 |
| c. Test Apparatus | 0 |
| d. Cooling System | 0 |
| 3. Human Engineering | |
| a. Manual Controls | 0 |
| b. Cabinetry | 0 |
| 4. Paper Feed Subsystem | 0 |
| 5. Writing Head | 0 |
| B. Electronic Control | |
| 1. Logic Circuits | 25 |
| 2. Axis Instrumentation | 0 |

Progress Report on Project Tasks

| Project Tasks | Labor Effort Percent Complete |
|---|---|
| III. Construction and/or Purchasing and Assembly | |
| A. Coordinatograph | |
| 1. Structure | |
| a. Support and Table | 75 |
| b. Gantry and Carriage | 75 |
| c. Vacuum Platen | 75 |
| 2. Drive System | |
| a. Power Control | 25 |
| b. Power Supply | 25 |
| c. Servo System Test Apparatus | 75 |
| d. Temperature Sensors | 10 |
| 3. Human Engineering | |
| a. Manual Controls | 75 |
| b. Cabinetry | 75 |
| 4. Paper Feed Subsystem | 10 |
| 5. Writing Head | 10 |
| B. Electronic Control | |
| 1. Standard Logic Board Fabrication | 100 |
| 2. Special Logic Board Fabrication | 50 |
| 3. Intra-rack Wiring | 25 |
| 4. Inter-rack wiring | 10 |
| 5. Axis Instrumentation | 100 |