Data System Standardization Study

Boeing Engineering Technology Labs


707
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747
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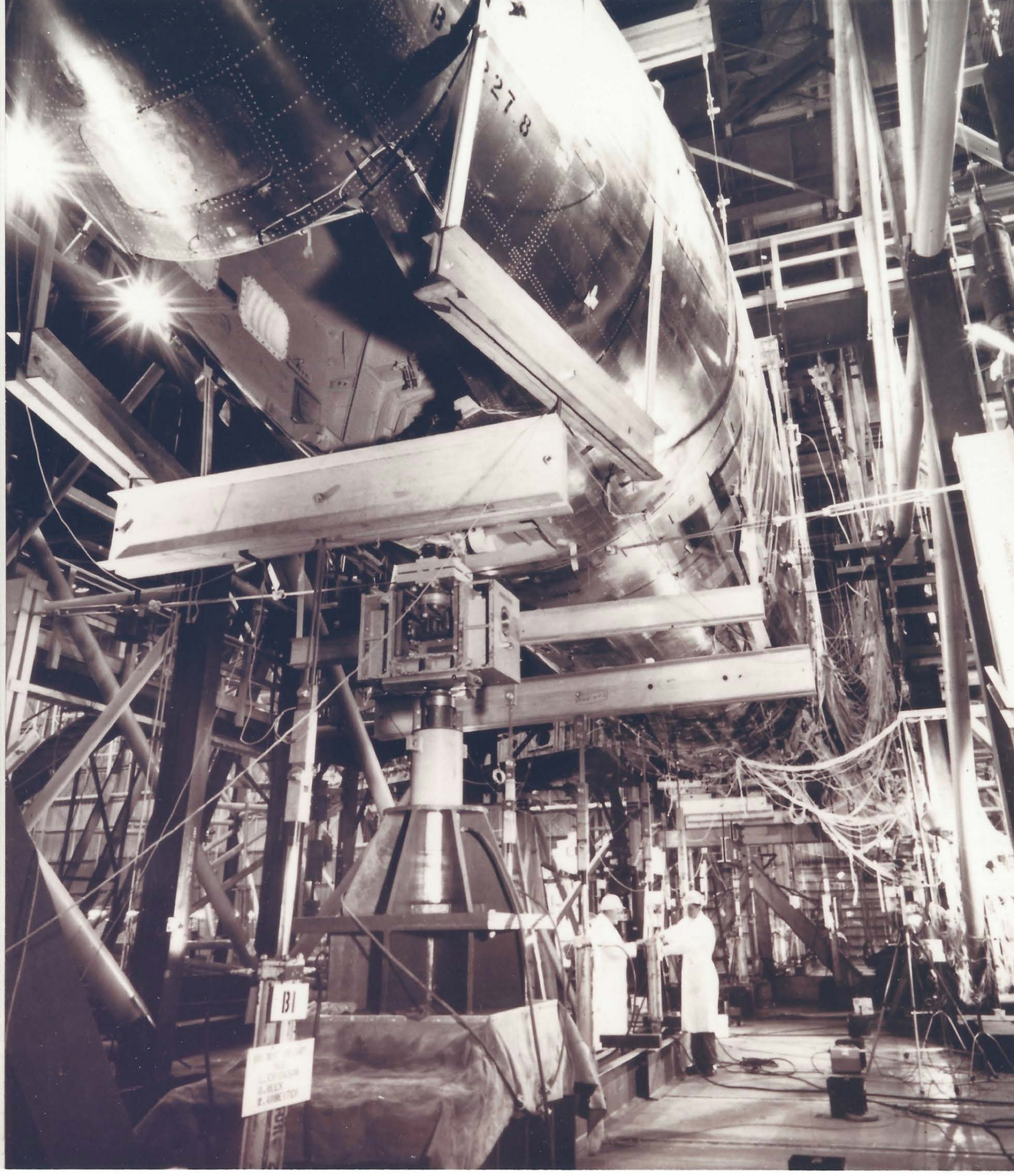
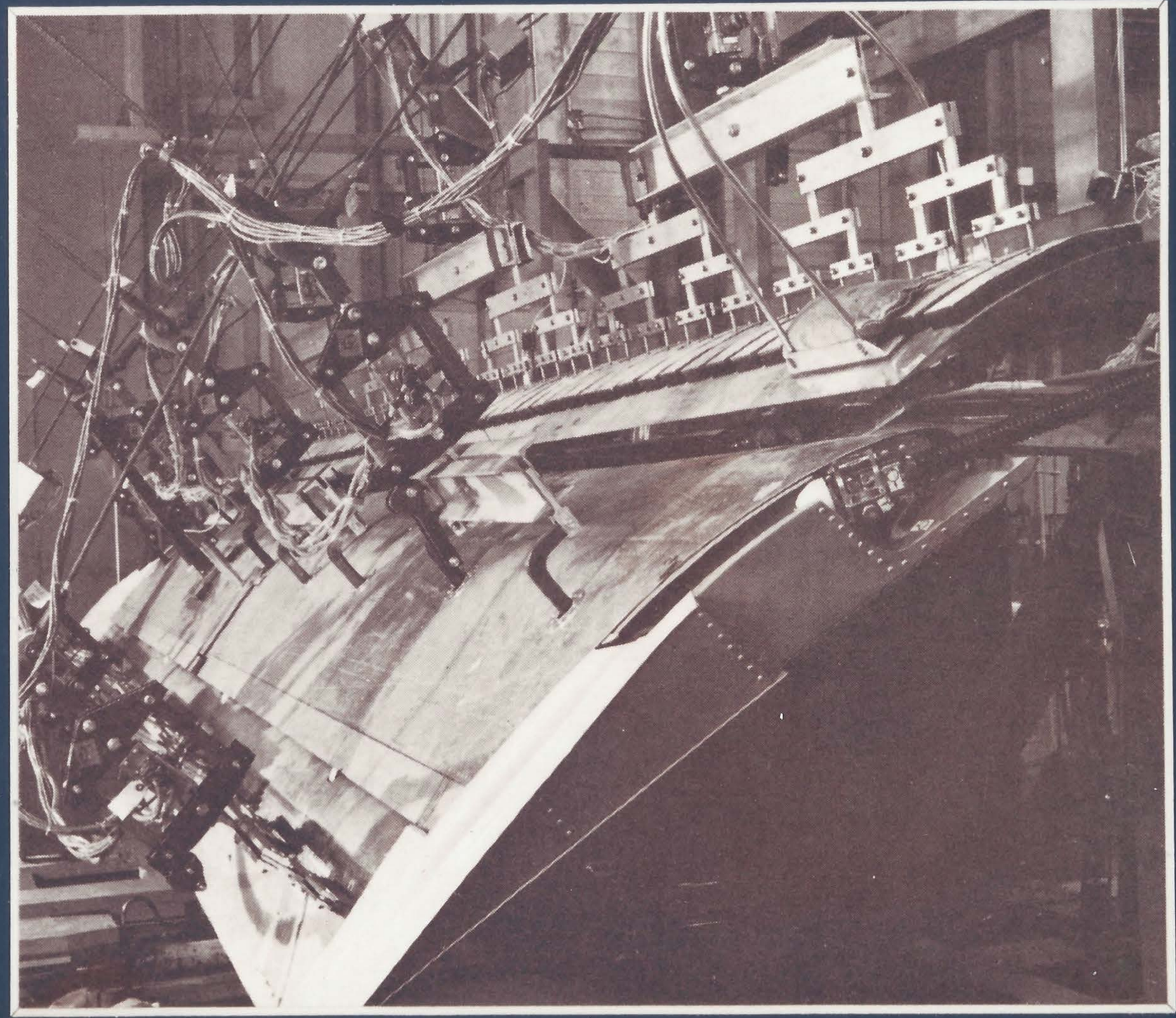
727
BOEING 727
737
BOEING 737

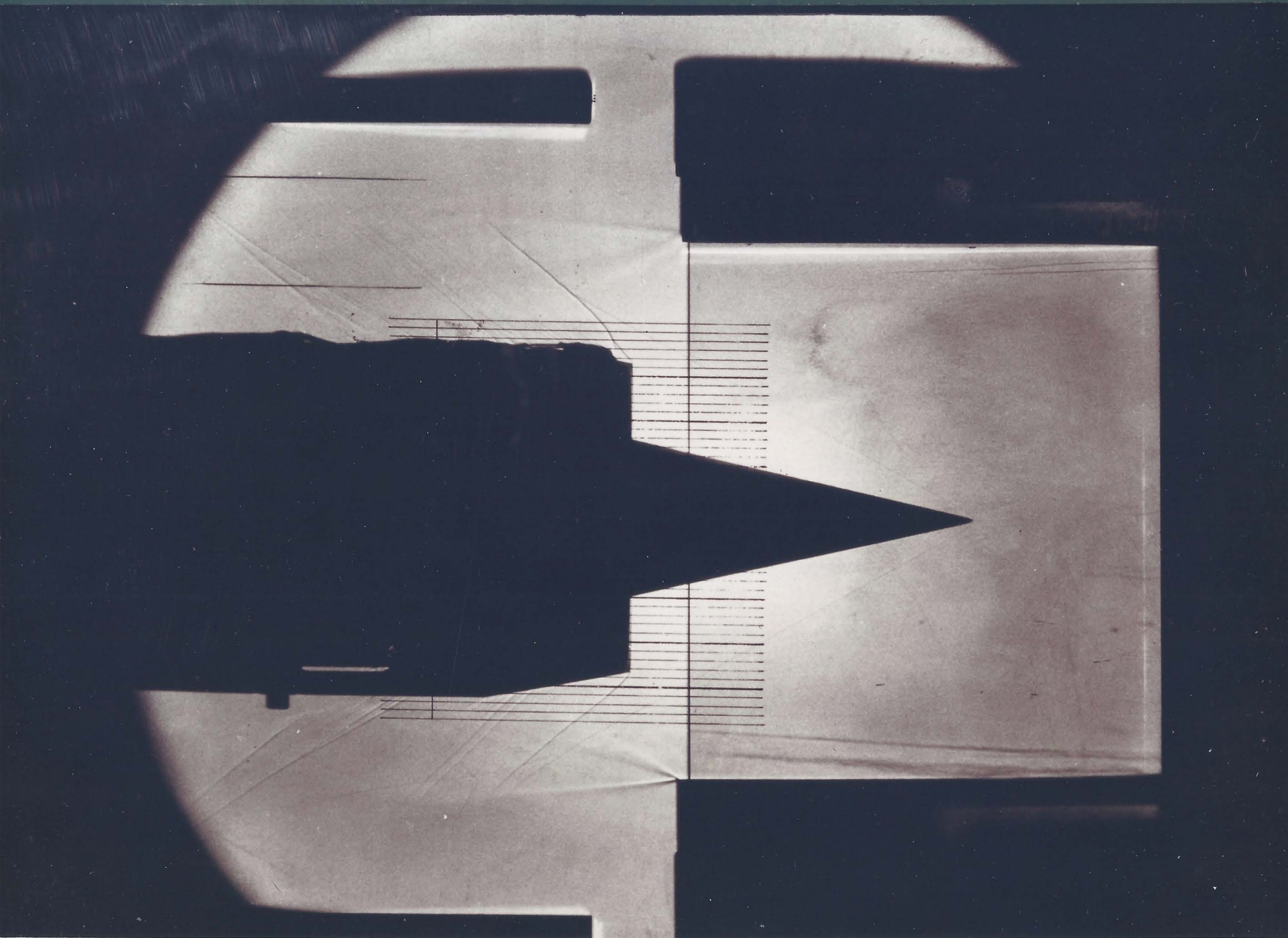
Major Structural Testing



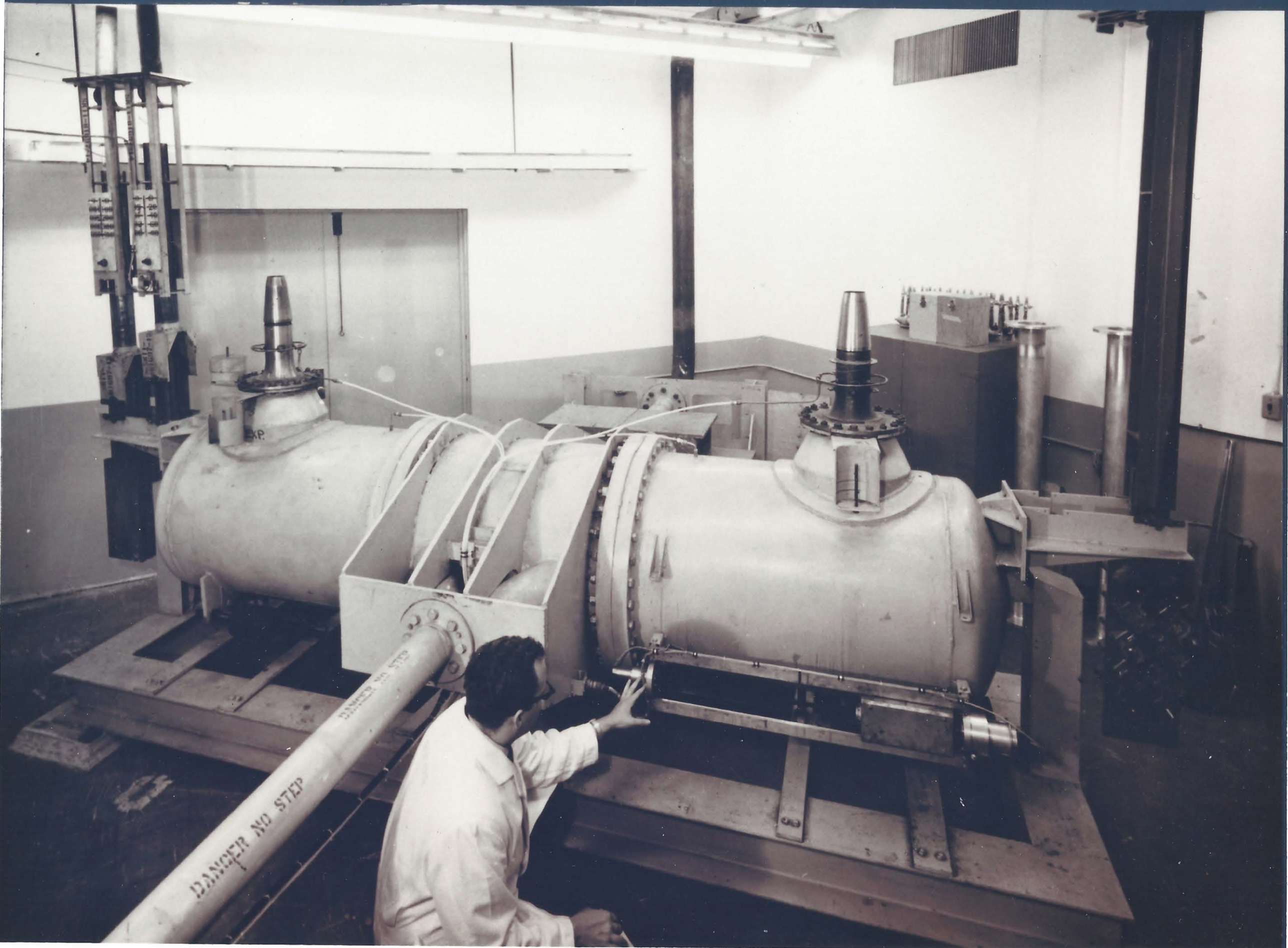
Structural Component Testing



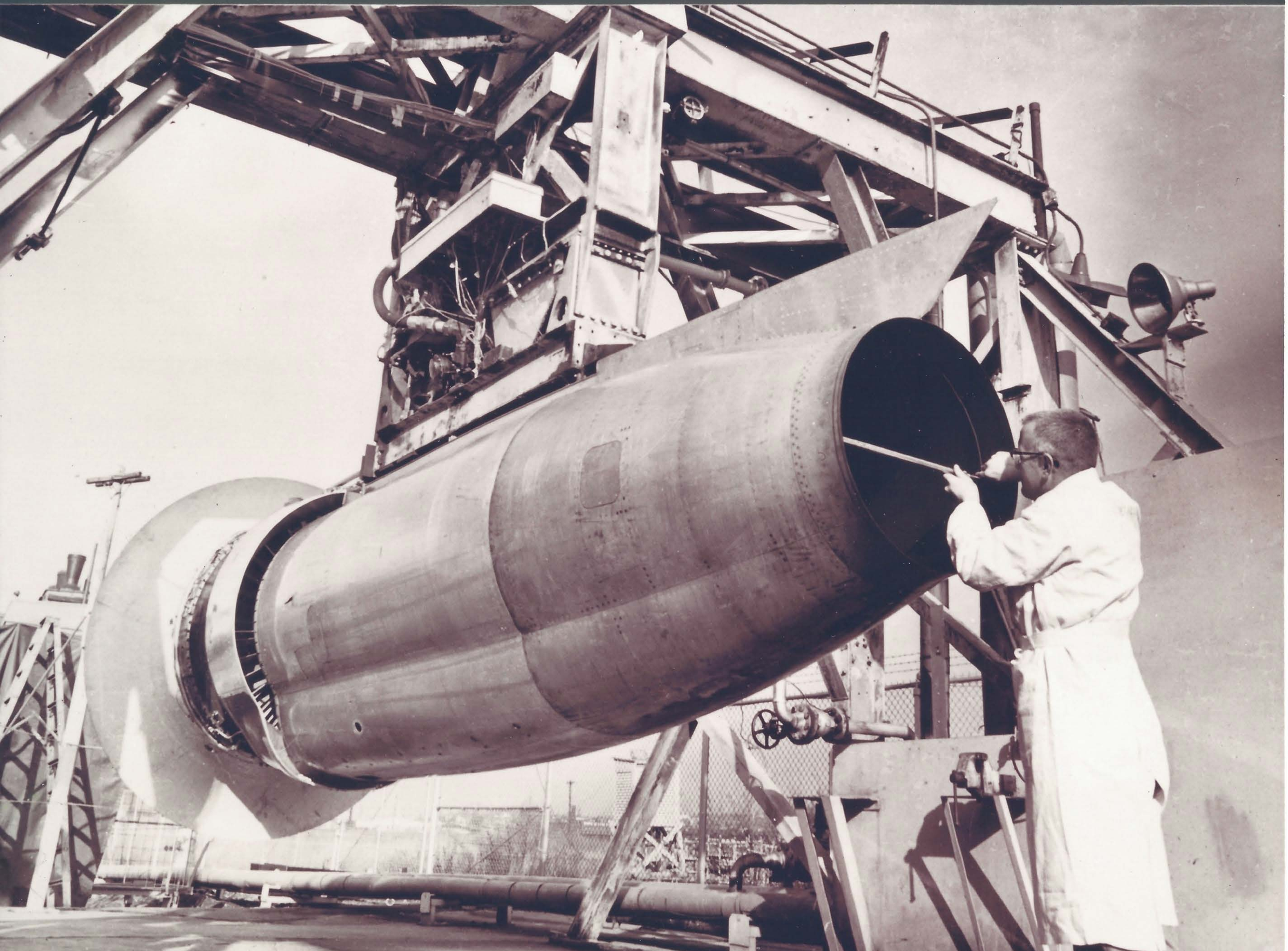
Engine Inlet Testing



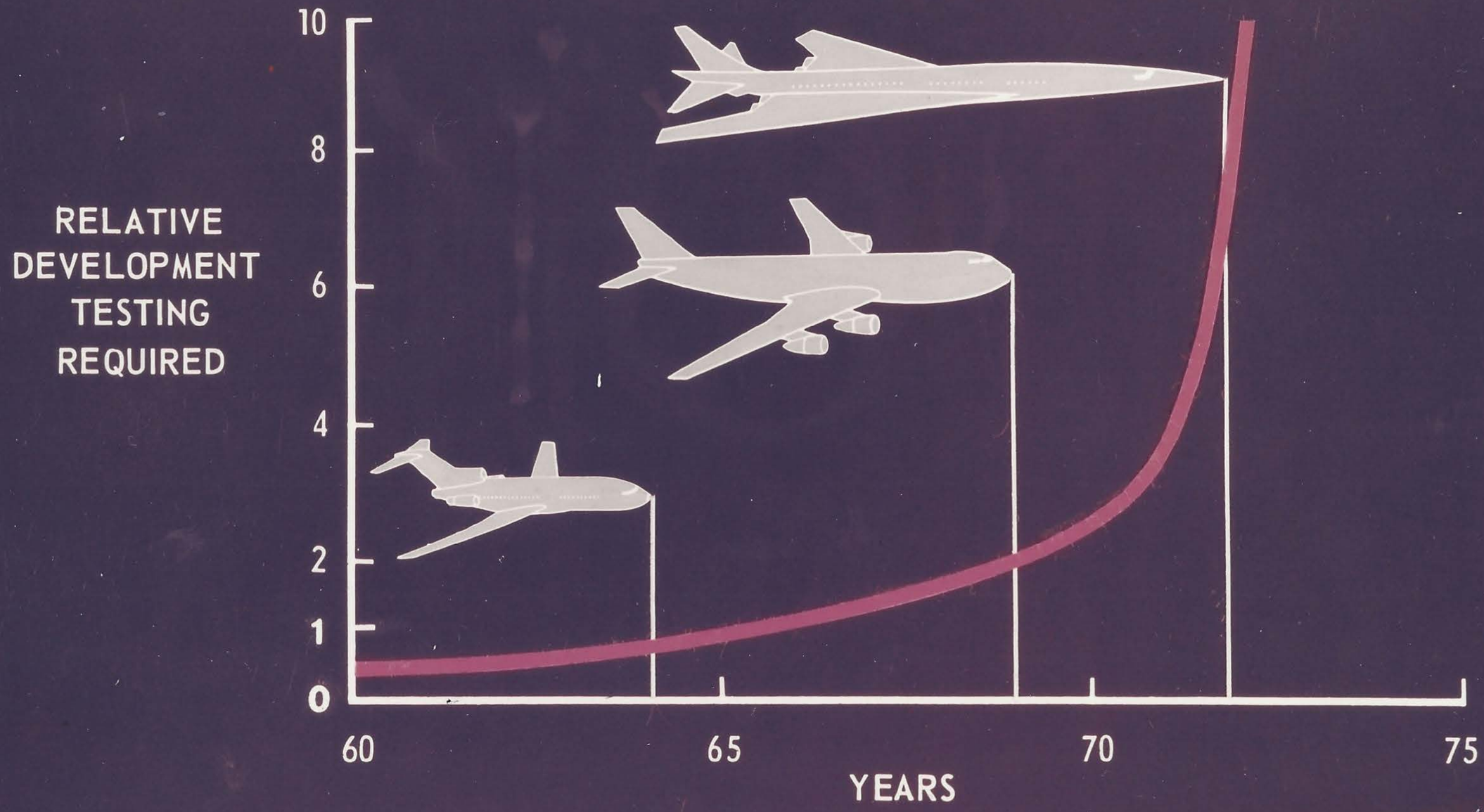
Engine Exhaust Nozzle Testing



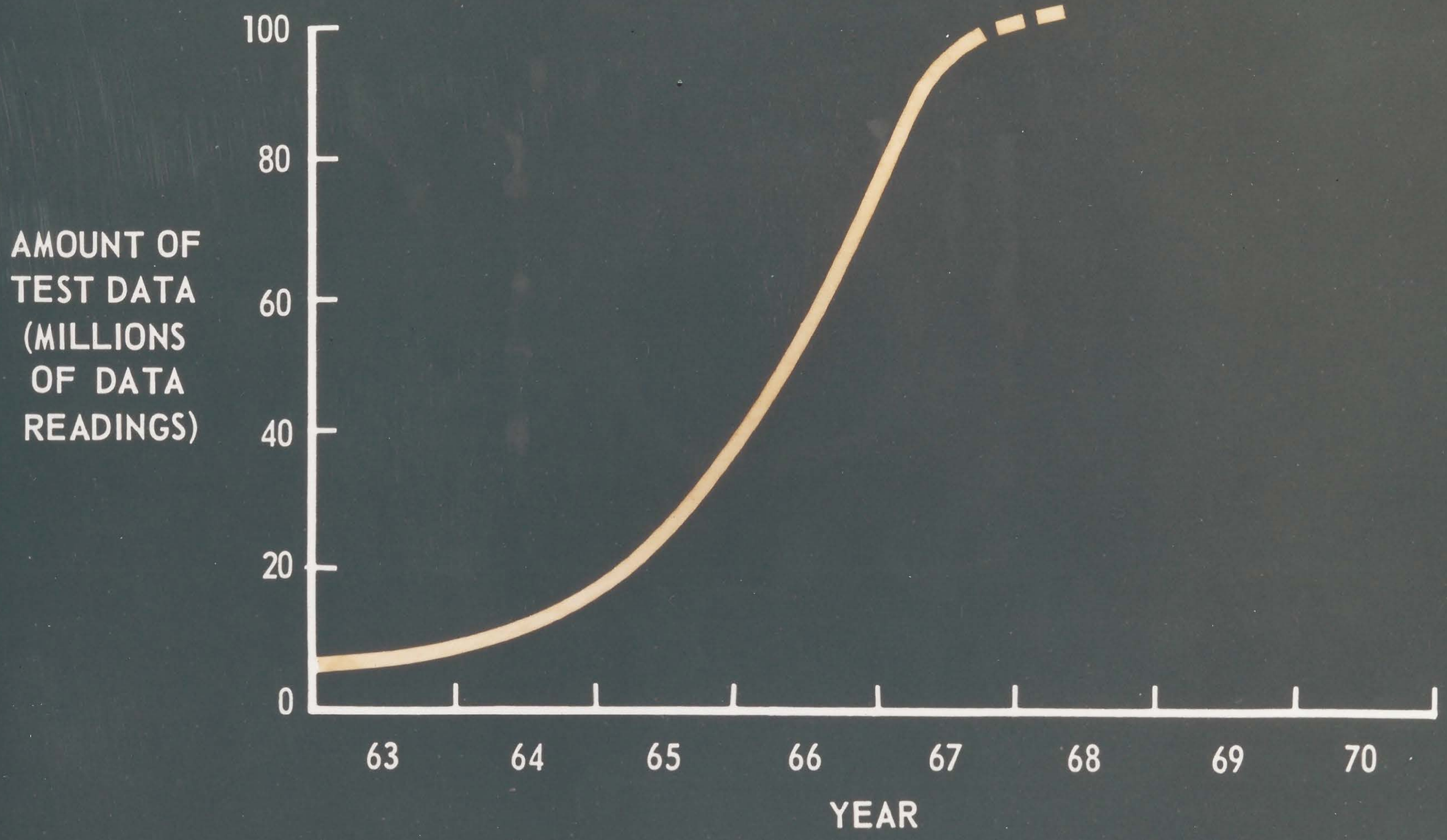
Full-scale Engine Evaluations



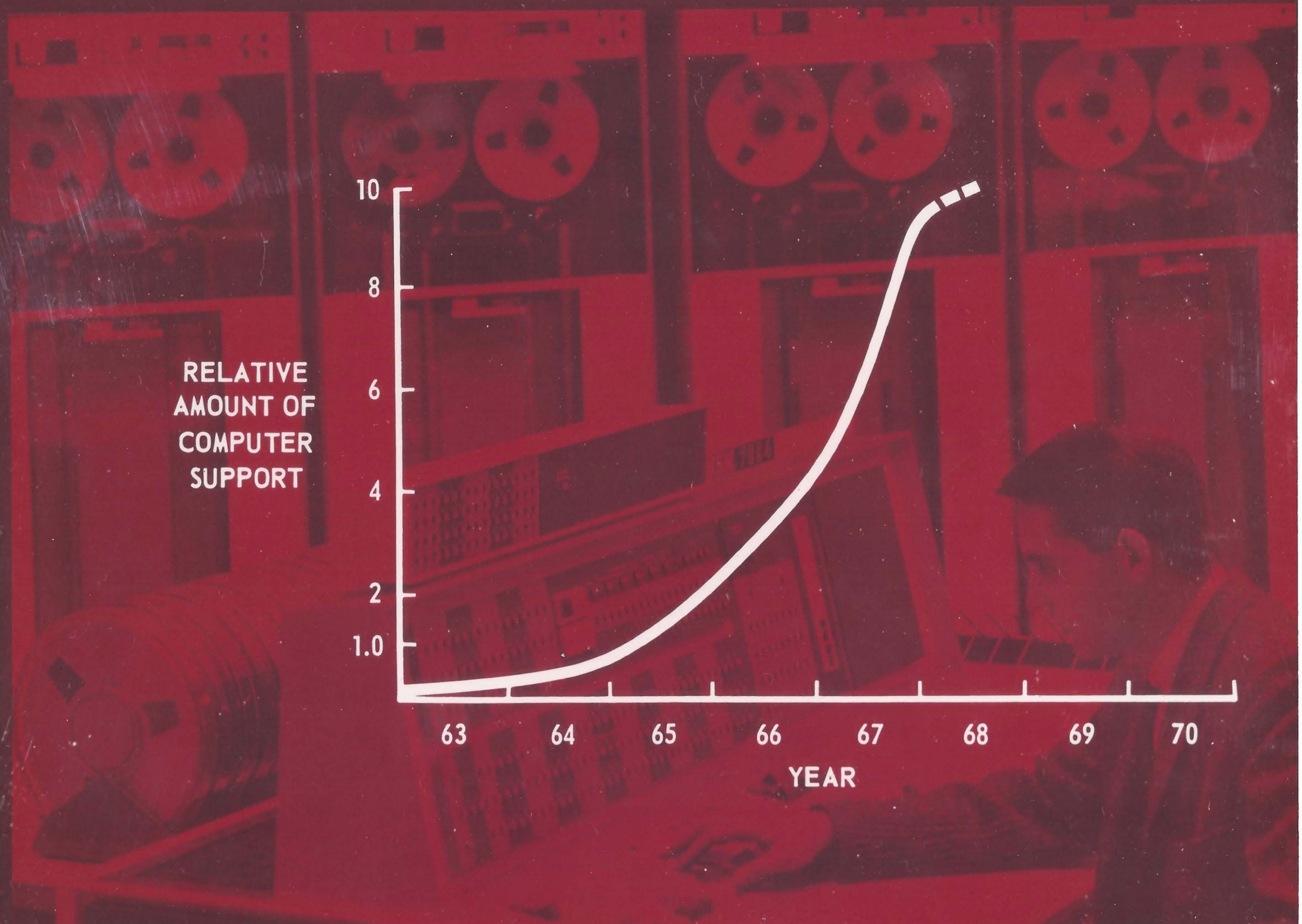
Technology Labs Development Testing



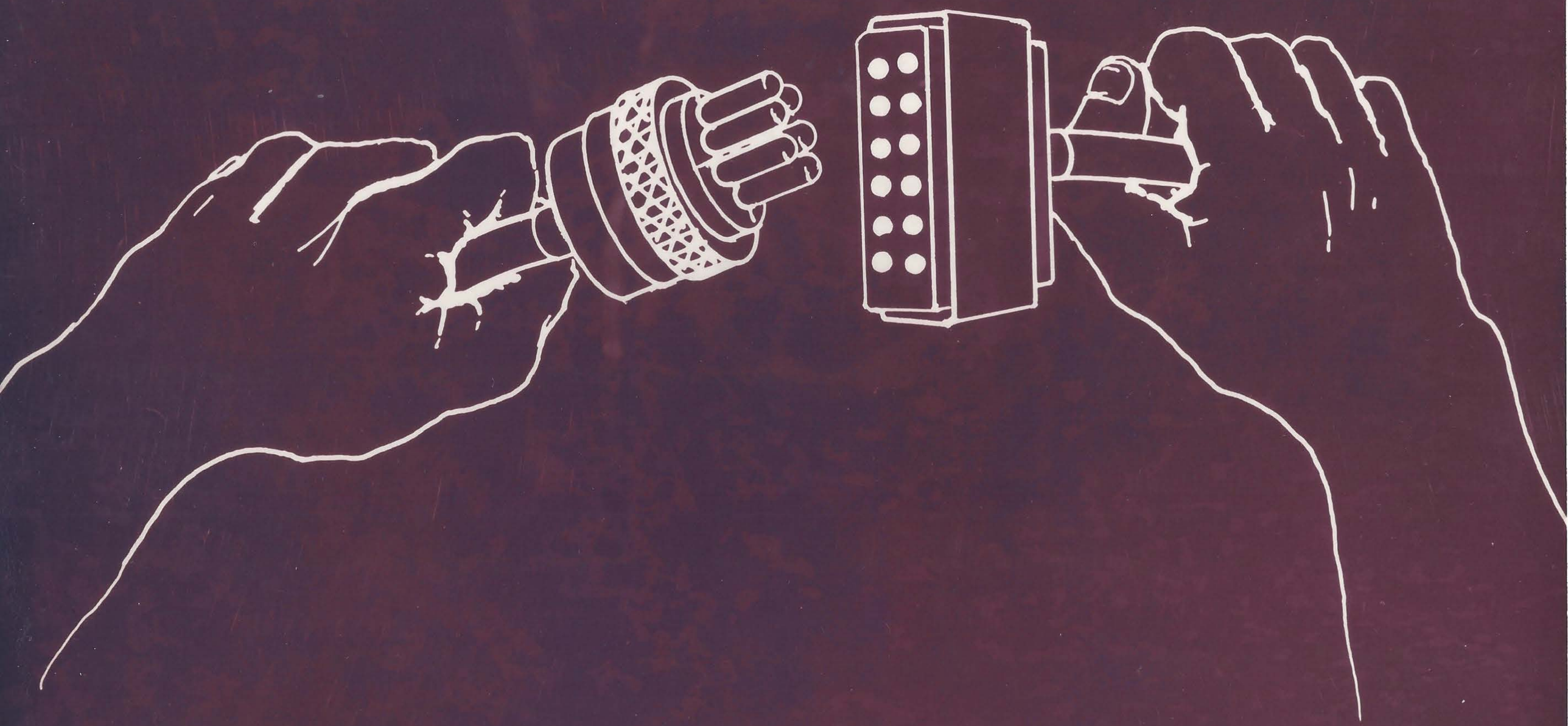
Technology Labs Volume of Test Data



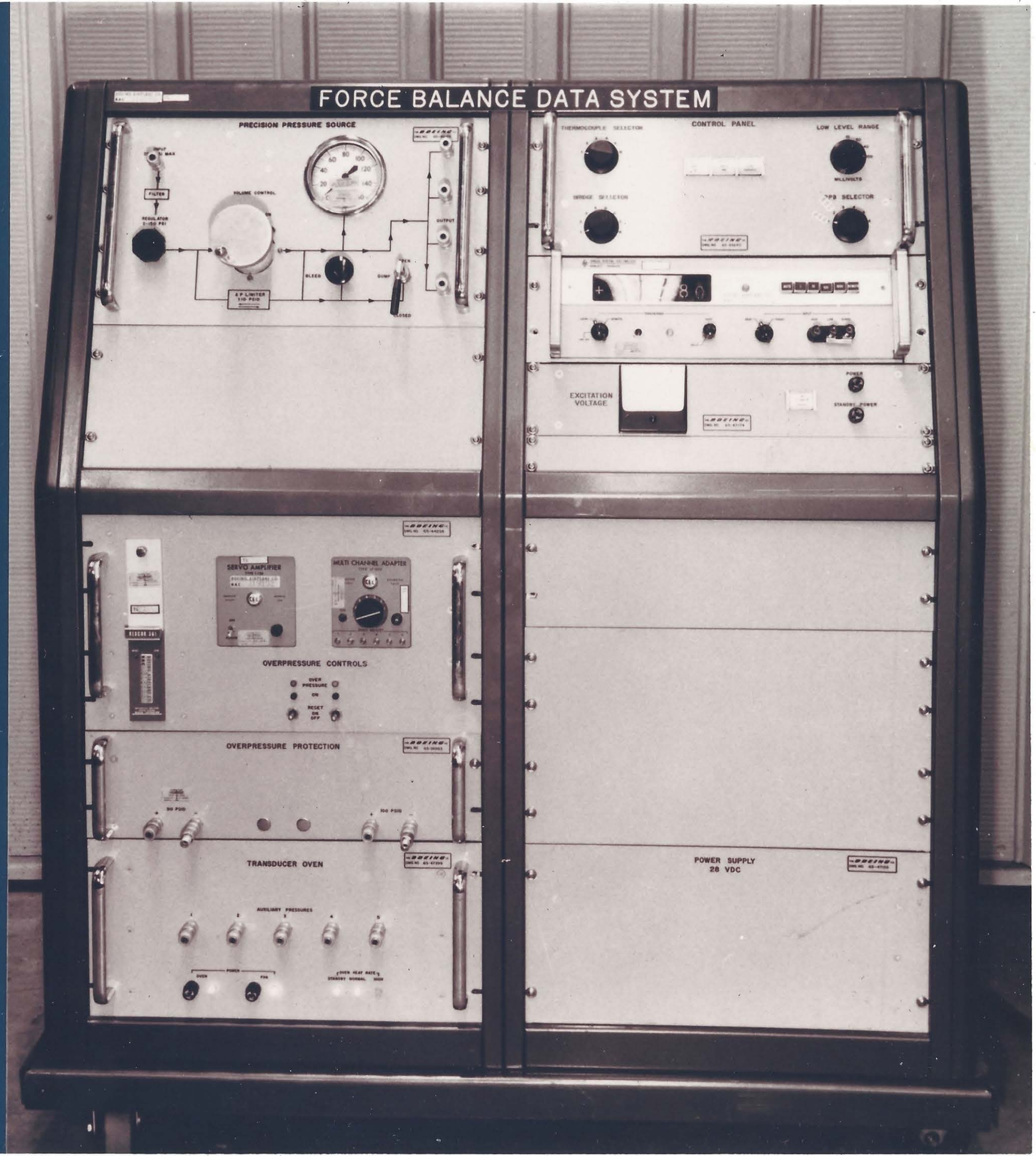
Technology Labs Test Data Processing



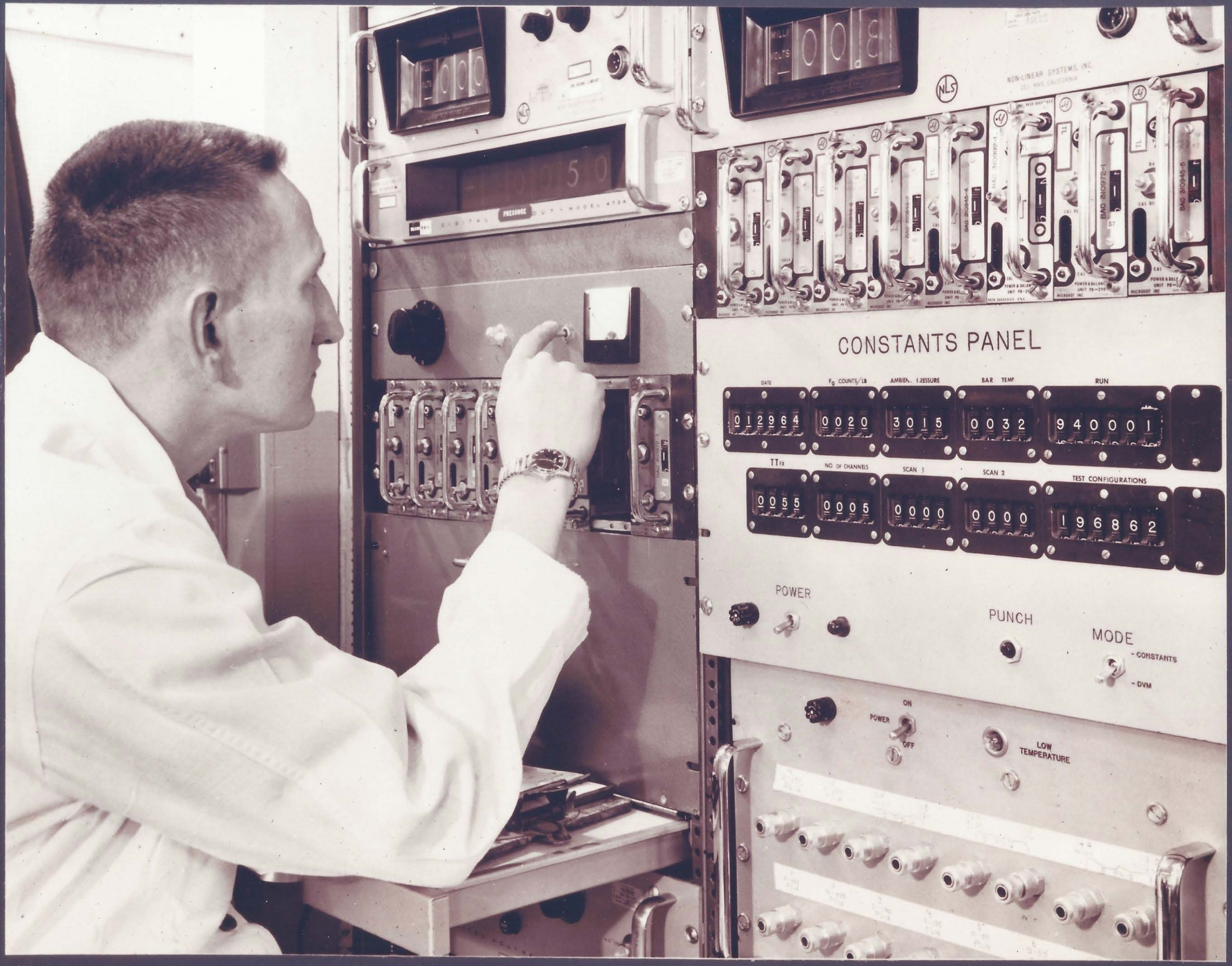
Hardware Incompatability

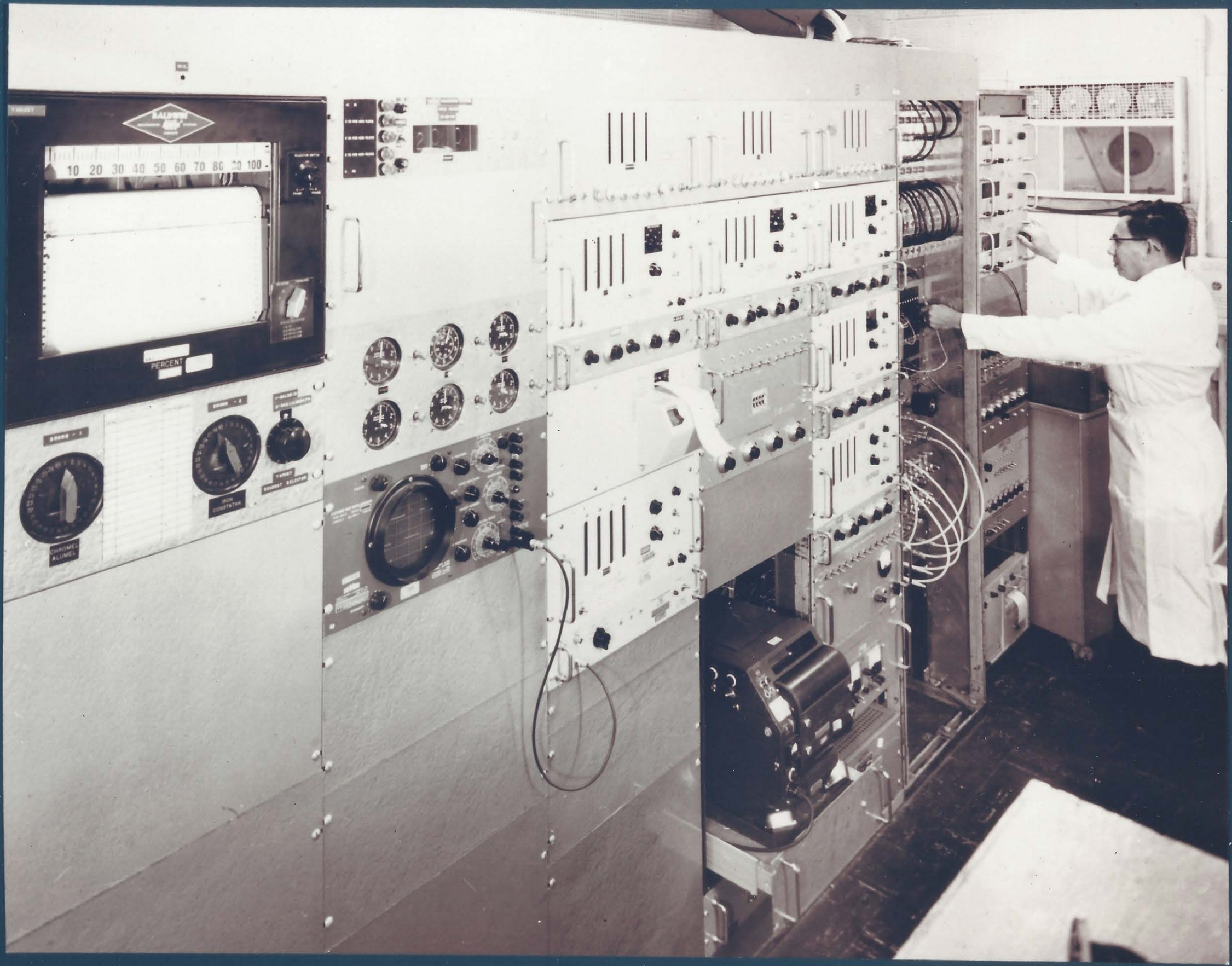


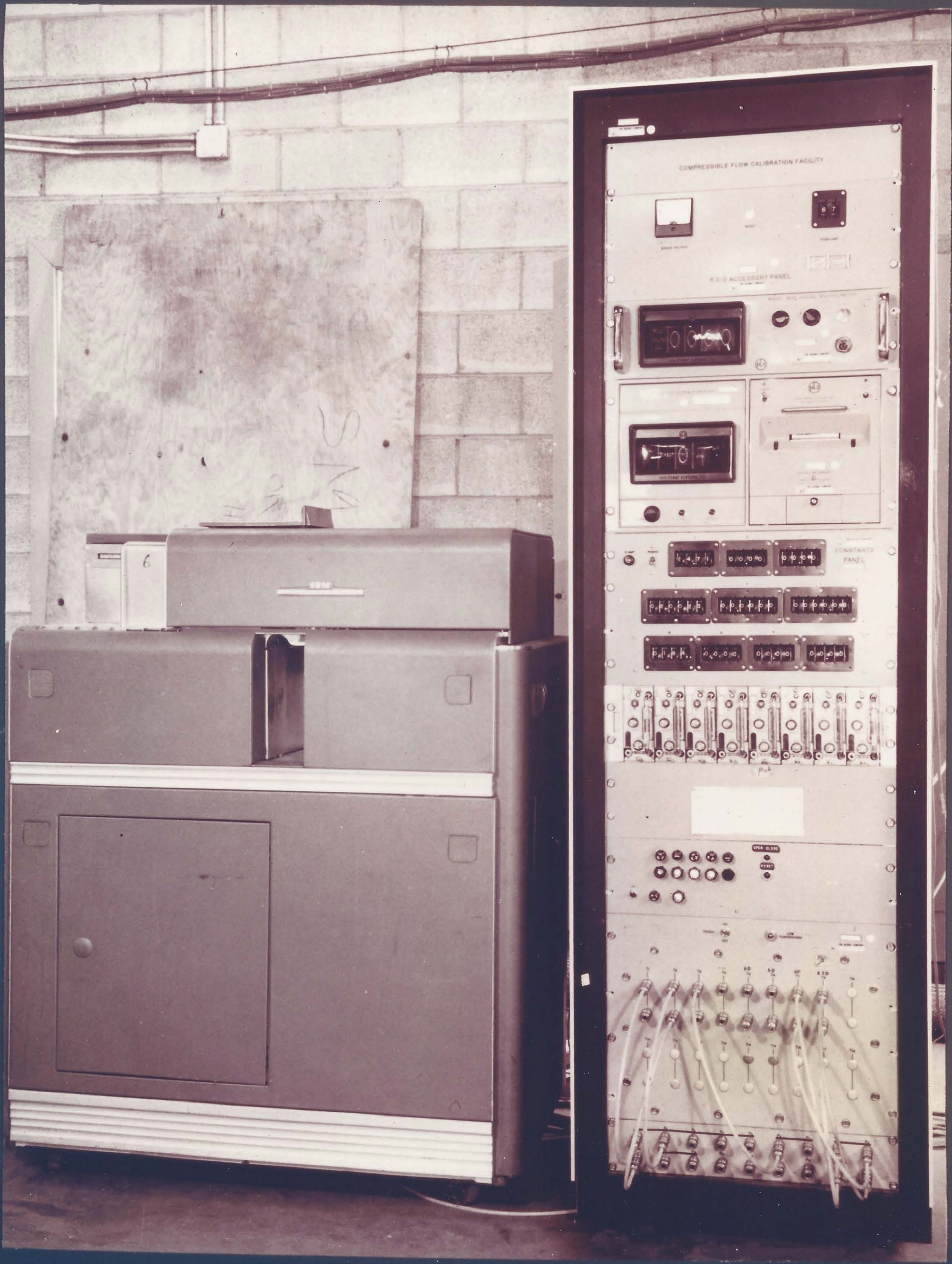
Present Non-standard Systems

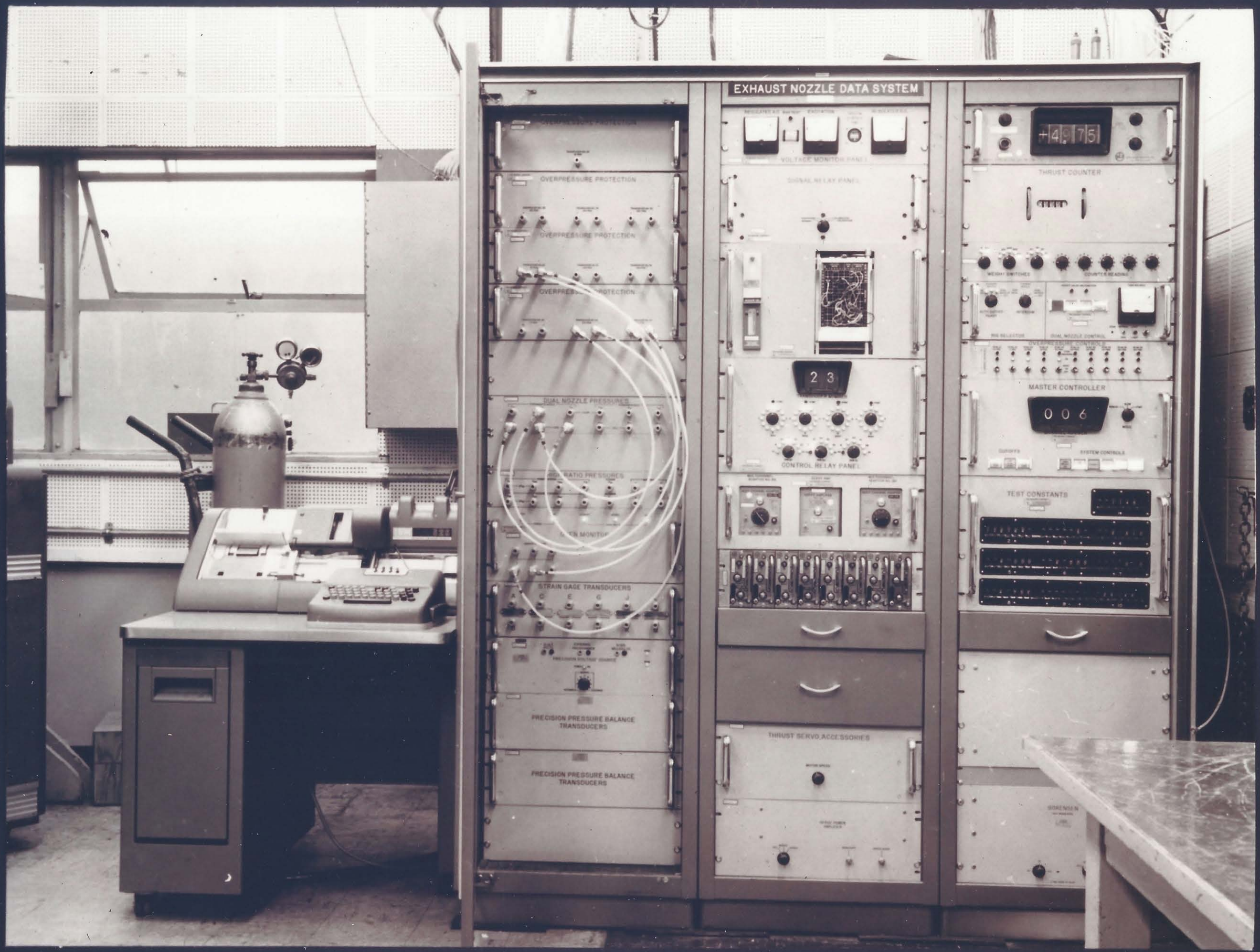



CONSOLIDATED SYSTEMS CORPORATION


CONSTANTS PANEL
DATE
012964
F_G COUNTS/LB
0020
AMBIEN. PRESSURE
3015
BAR TEMP
0032
RUN
940001
TTFX
0055
NO. OF CHANNELS
0005
SCAN 1
0000
SCAN 2
0000
TEST CONFIGURATIONS
196862
POWER
PUNCH
MODE
- CONSTANTS
- DVM
ON
POWER
OFF
LOW TEMPERATURE


10 20 30 40 50 60 70 80 90 100
PERCENT
CHROMEL ALUMEL


COMPRESSIBLE FLOW CALIBRATION FACILITY
R.S.D. ACCESSORY PANEL
CONSTANTS PANEL
OPEN CLOSE
RESET


EXHAUST NOZZLE DATA SYSTEM
OVERPRESSURE PROTECTION
OVERPRESSURE PROTECTION
DUAL NOZZLE PRESSURES
STRAIN GAGE TRANSDUCERS
PRECISION PRESSURE BALANCE TRANSDUCERS
PRECISION PRESSURE BALANCE TRANSDUCERS
VOLTAGE MONITOR PANEL
SIGNAL RELAY PANEL
23
CONTROL RELAY PANEL
THRUST SERVO ACCESSORIES
+4975
THRUST COUNTER
MASTER CONTROLLER
006
TEST CONSTANTS

LOAD MONITOR NO. 1

LOAD MONITOR NO. 2

LOAD MONITOR NO. 3

POWER SUPPLY

INTERPHONE POWER SUPPLY

POWER SUPPLY

POWER SUPPLY

WIND TUNNEL

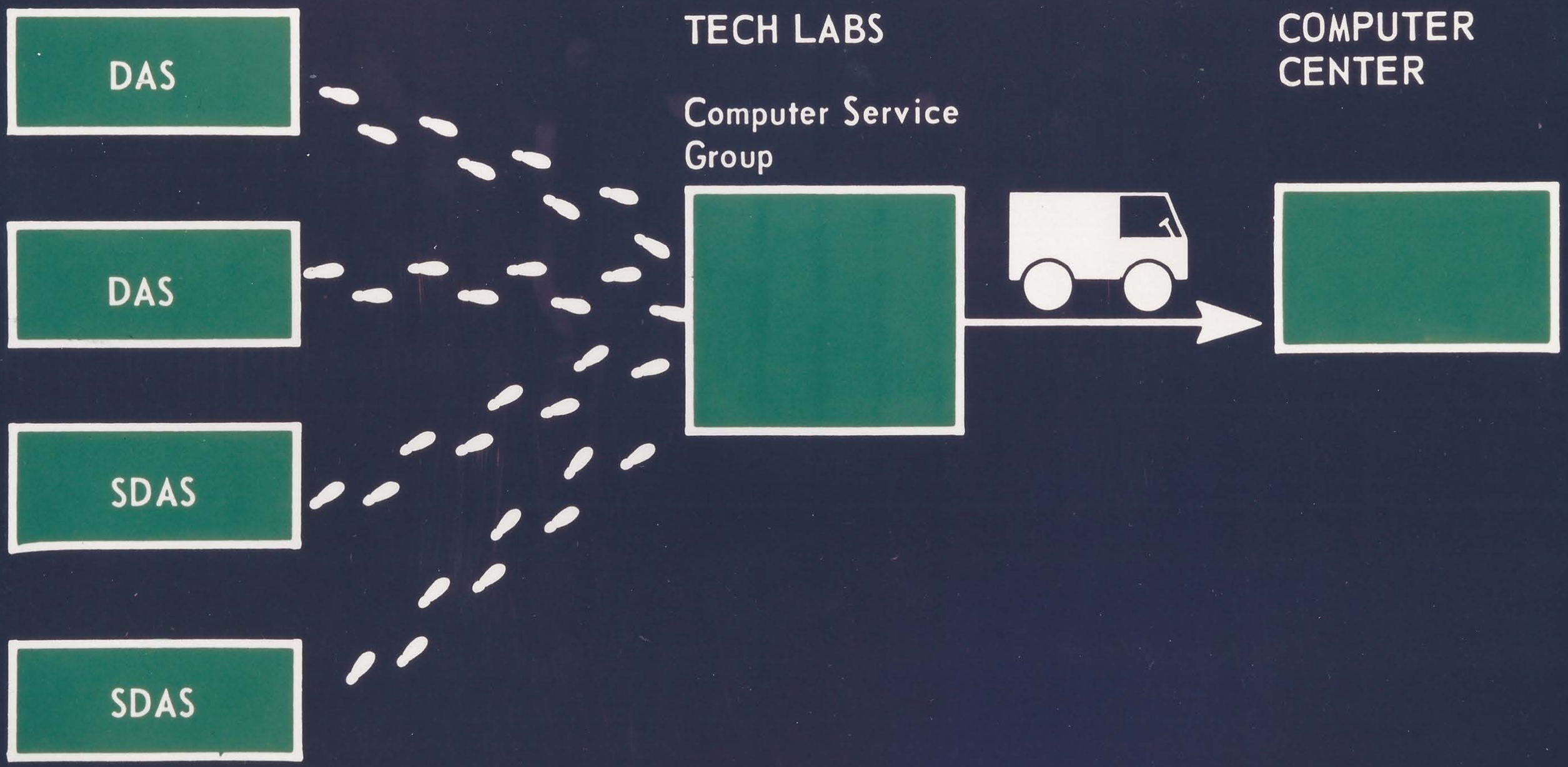
Goals

- INTERCHANGEABILITY
- REDUCE LEAD TIME
- REDUCE TRAINING TIME
- IMPROVE DOCUMENTATION
- IMPROVE COMMUNICATIONS
- STANDARDIZE PROBLEMS
- DEVELOP LONG-RANGE PLANS

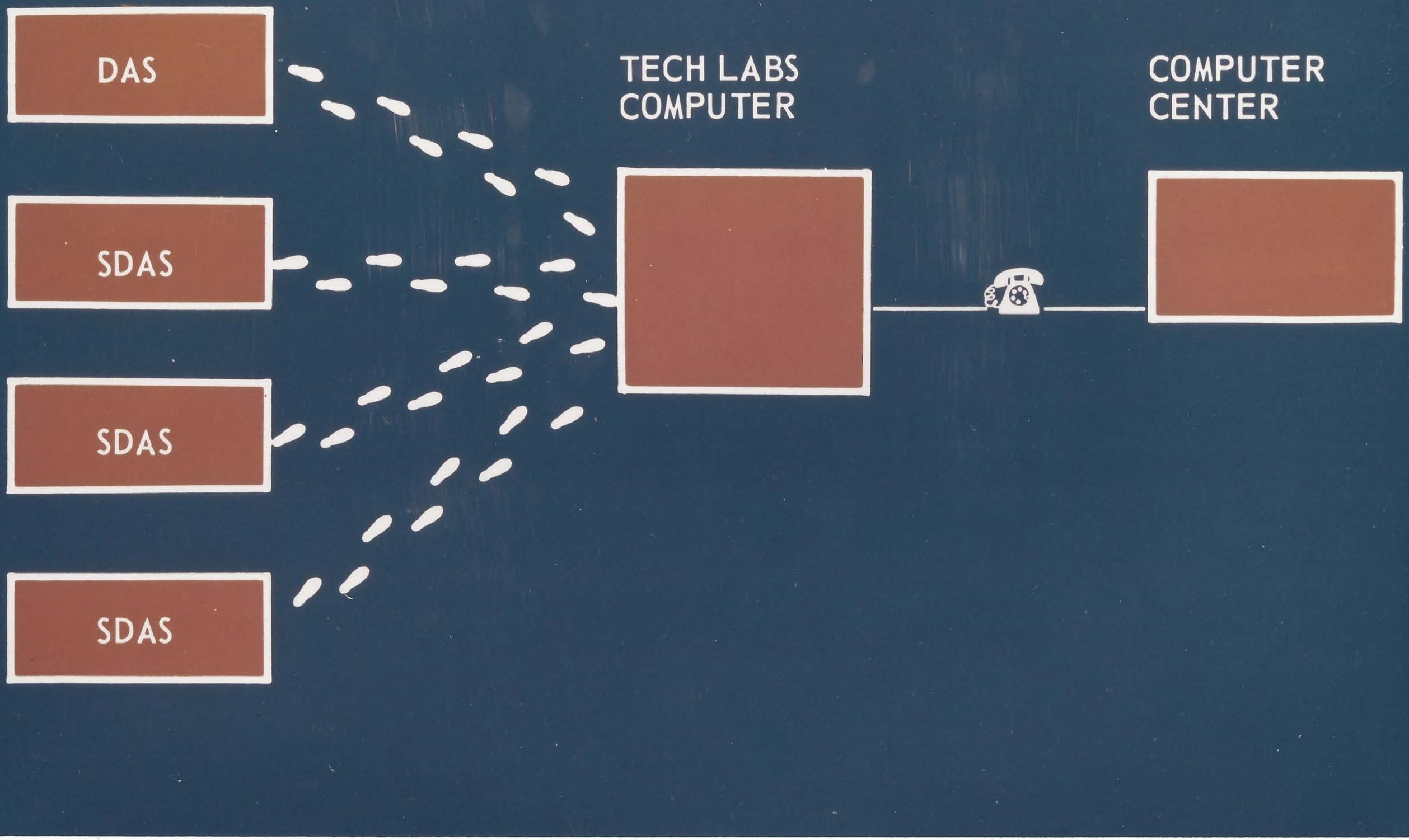
Conclusions and Recommendations

- *CENTRALIZATION VS DECENTRALIZATION*
- *SINGLE VS MULTIPLE STANDARDS*
- *RECORDING MEDIUM*
- *LONG RANGE PLANS*

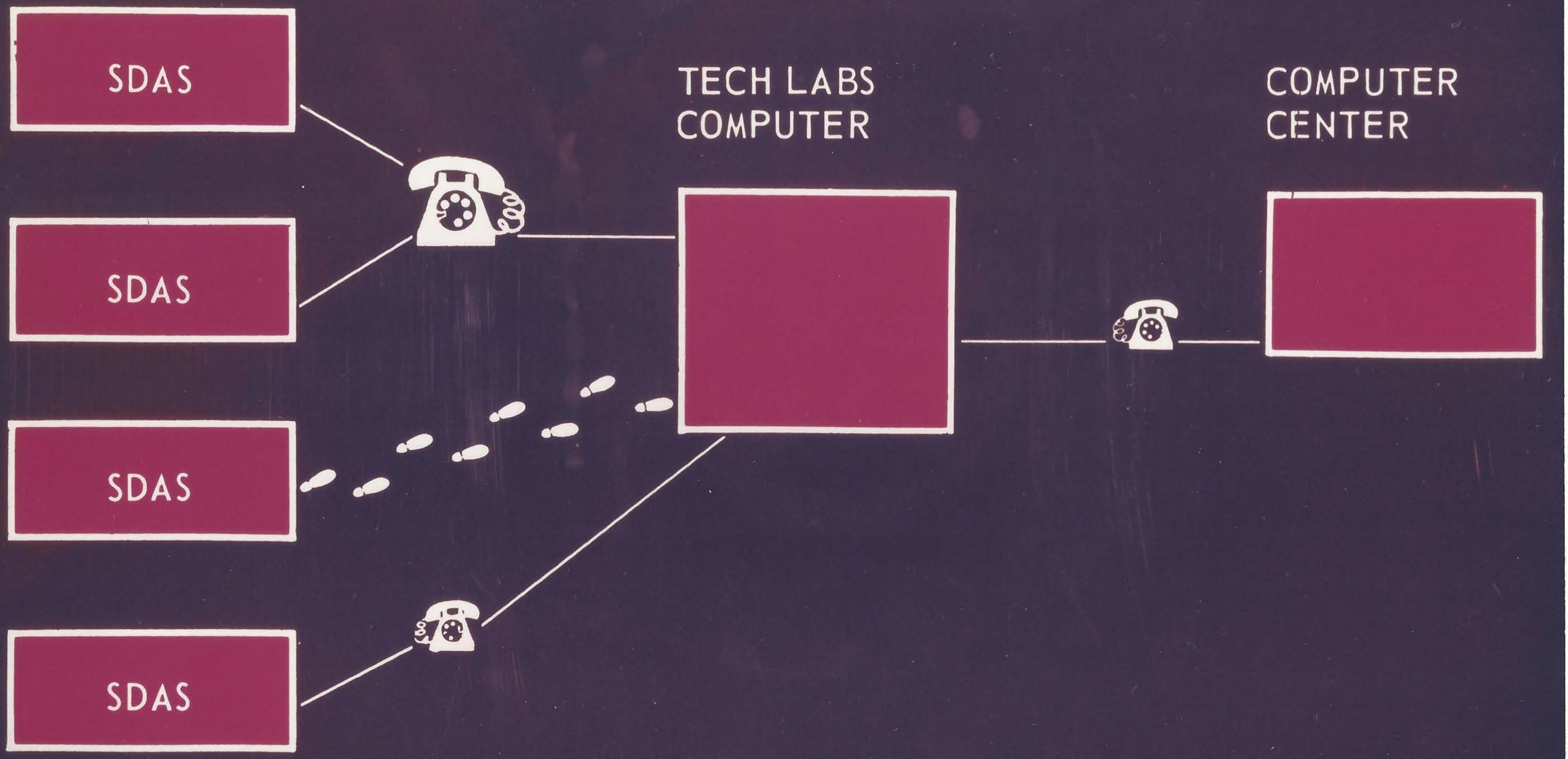
Phase I


DAS
DAS
SDAS
SDAS
TECH LABS
Computer Service Group
COMPUTER CENTER

Phase II



Phase III



STANDARD DIGITAL DATA ACQUISITION SYSTEM

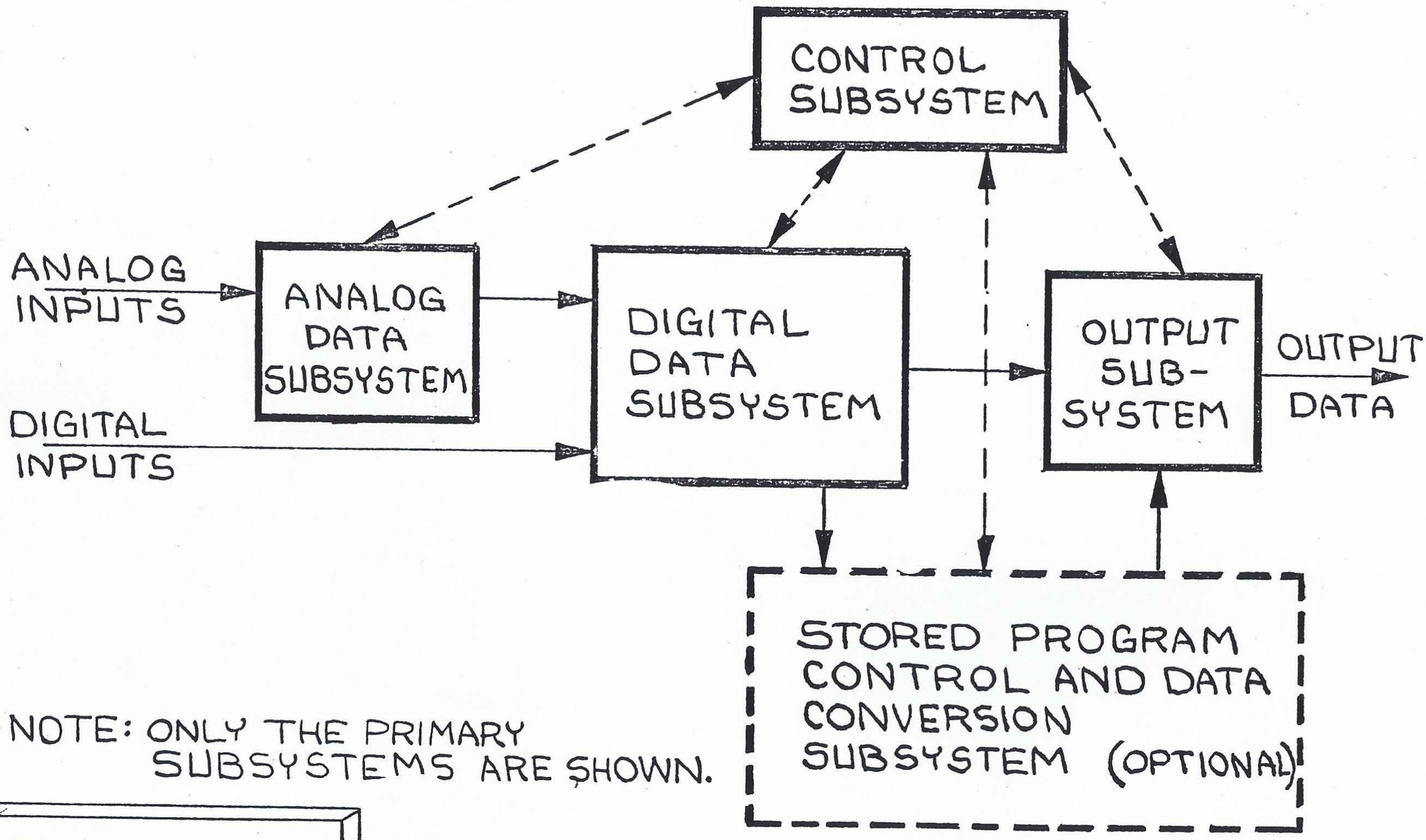
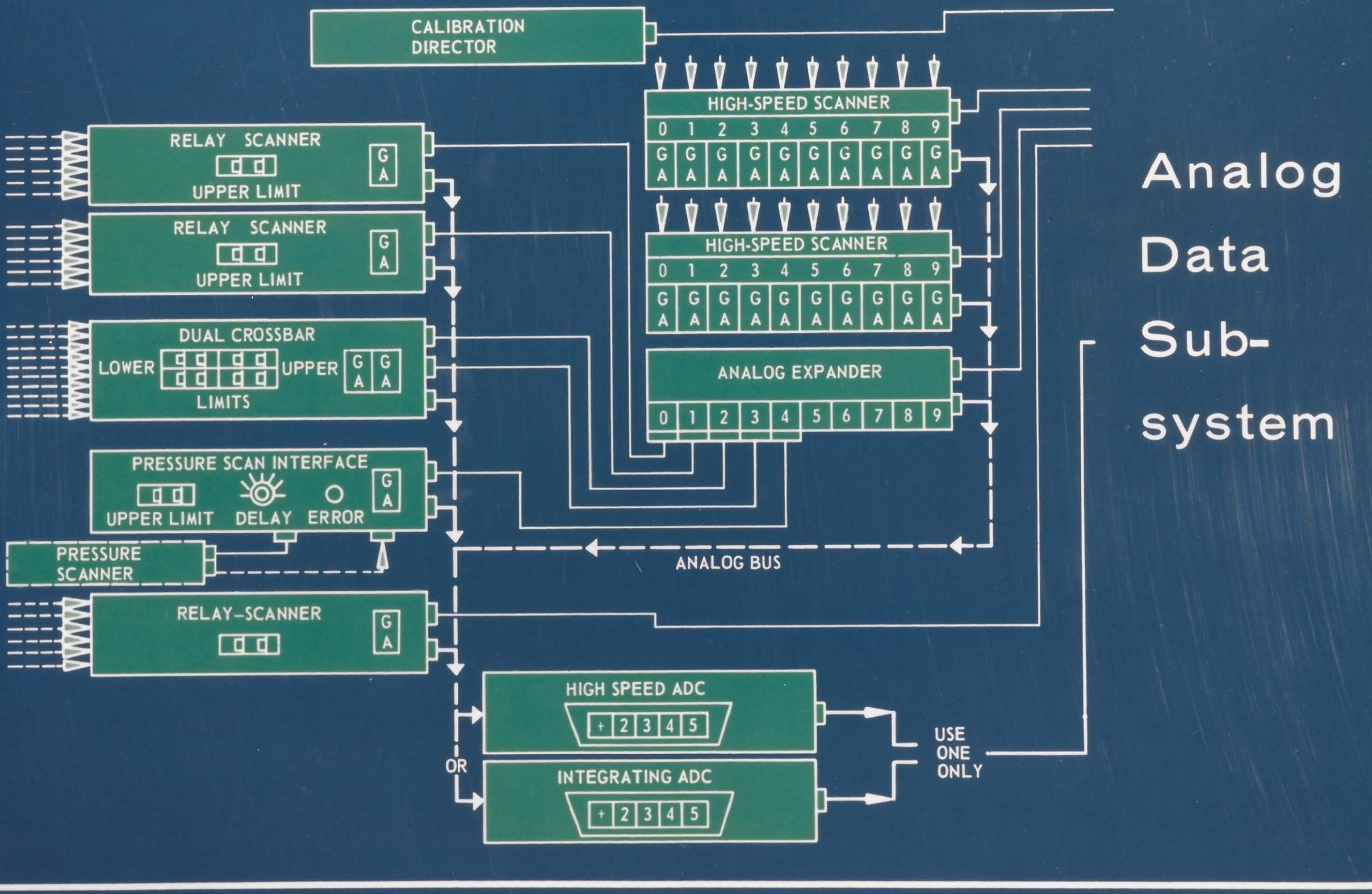
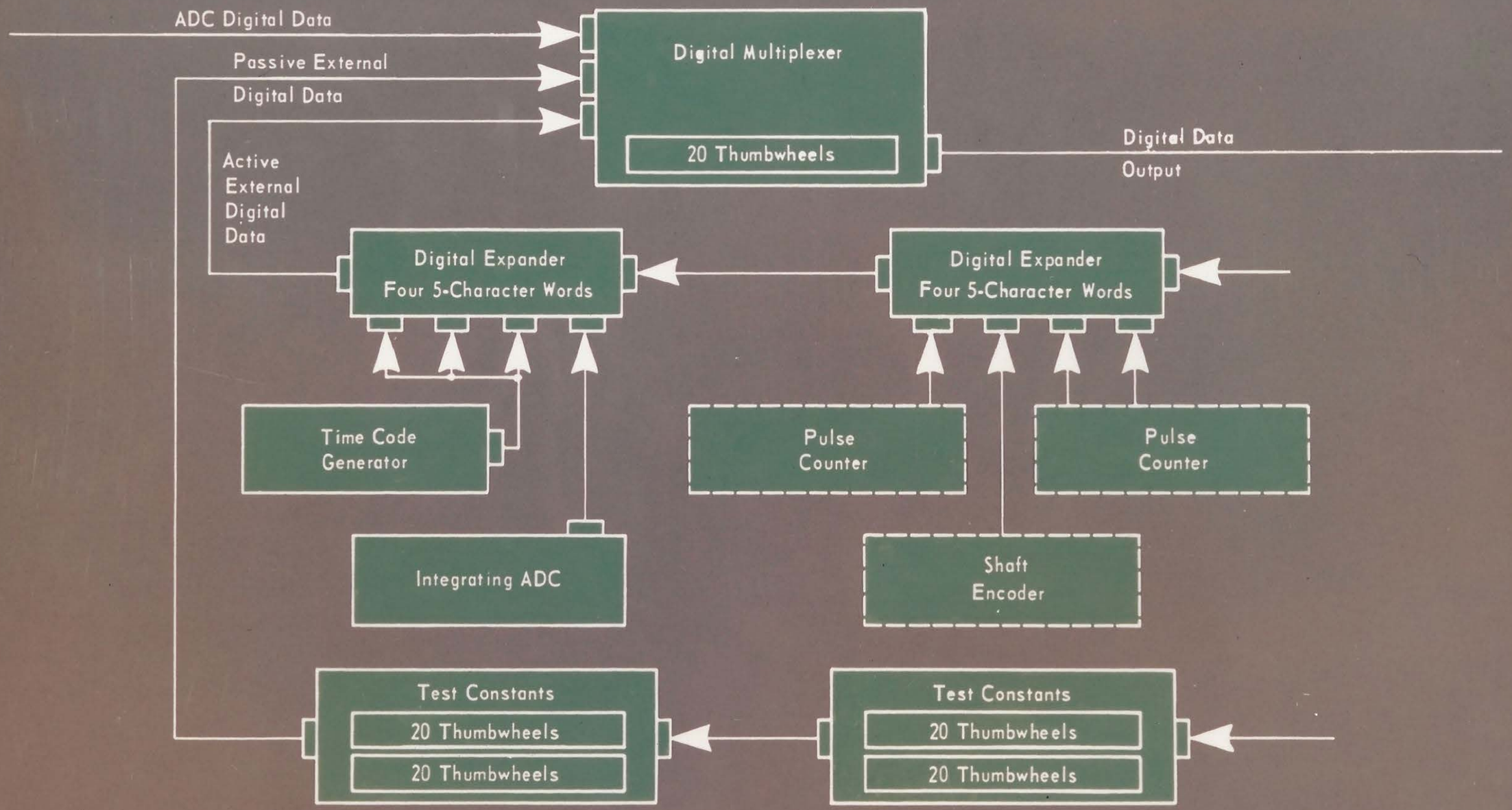


FIG. 3.1.2-1

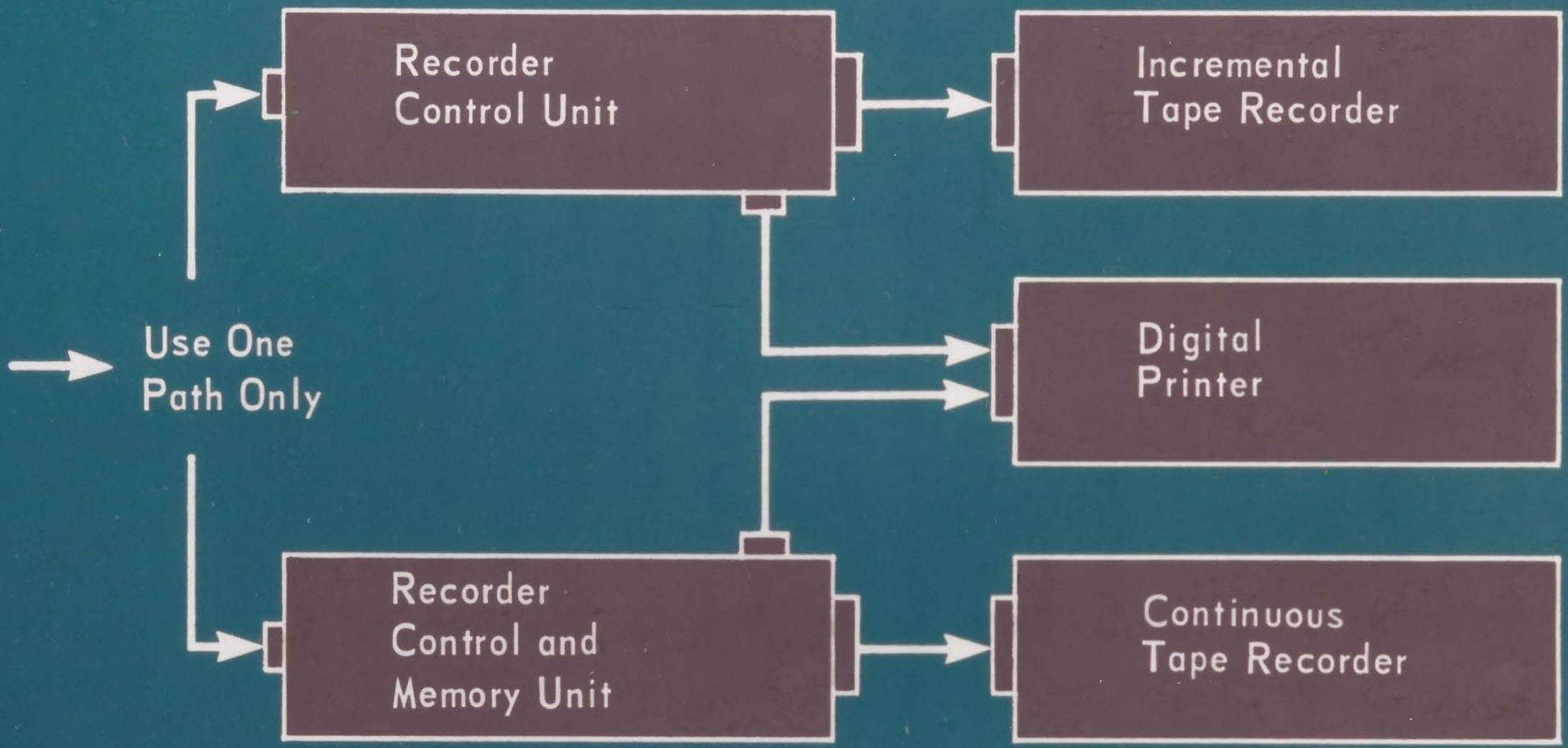
Analog Data Sub-system



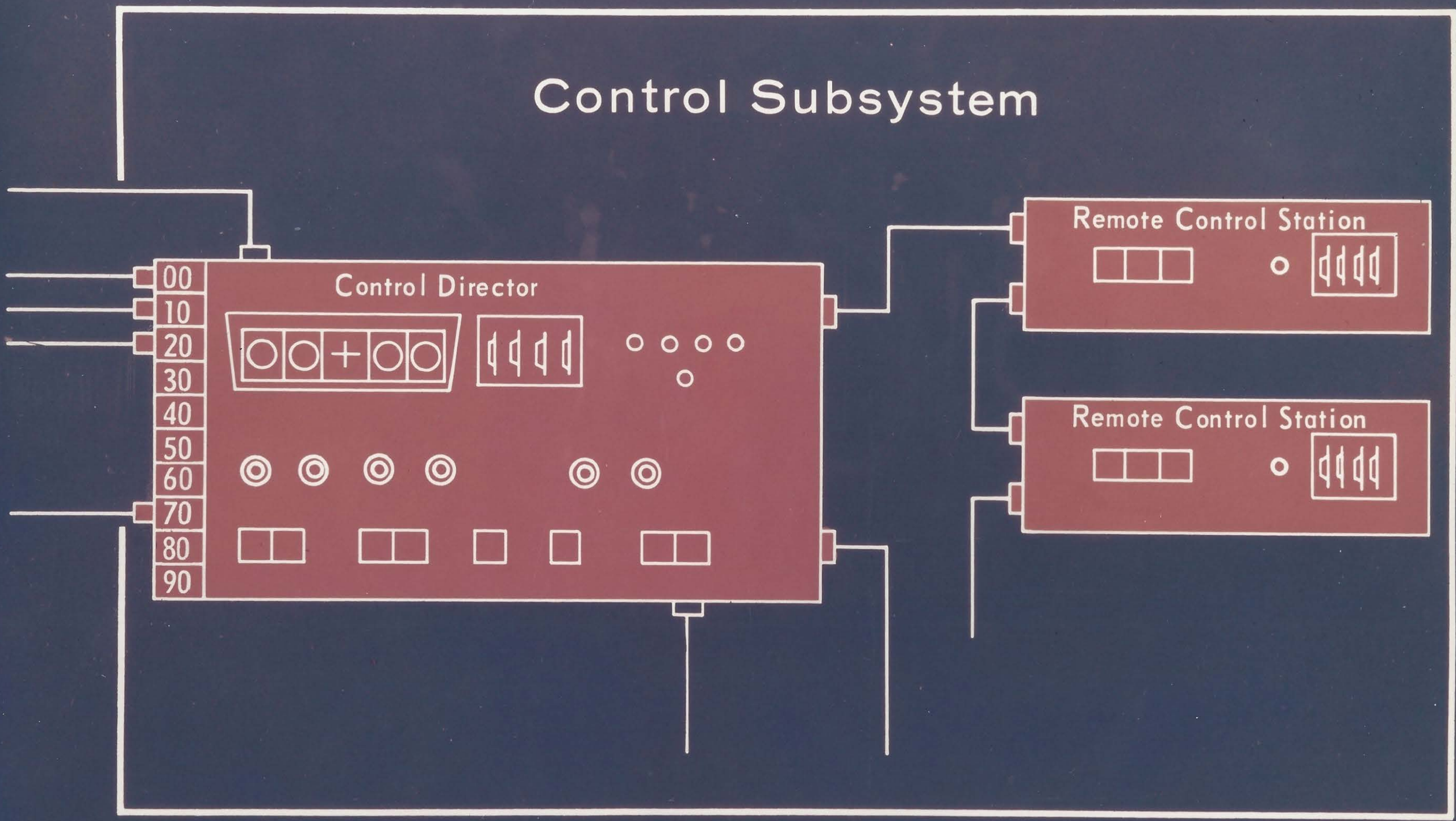
Digital Data Subsystem



Output Subsystem



Control Subsystem



Stored Program Control and Data Conversion Subsystem