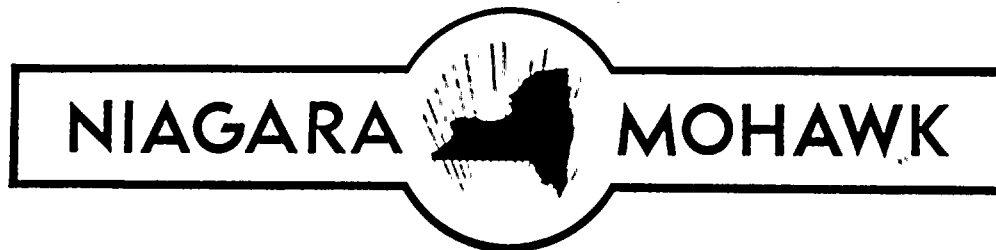


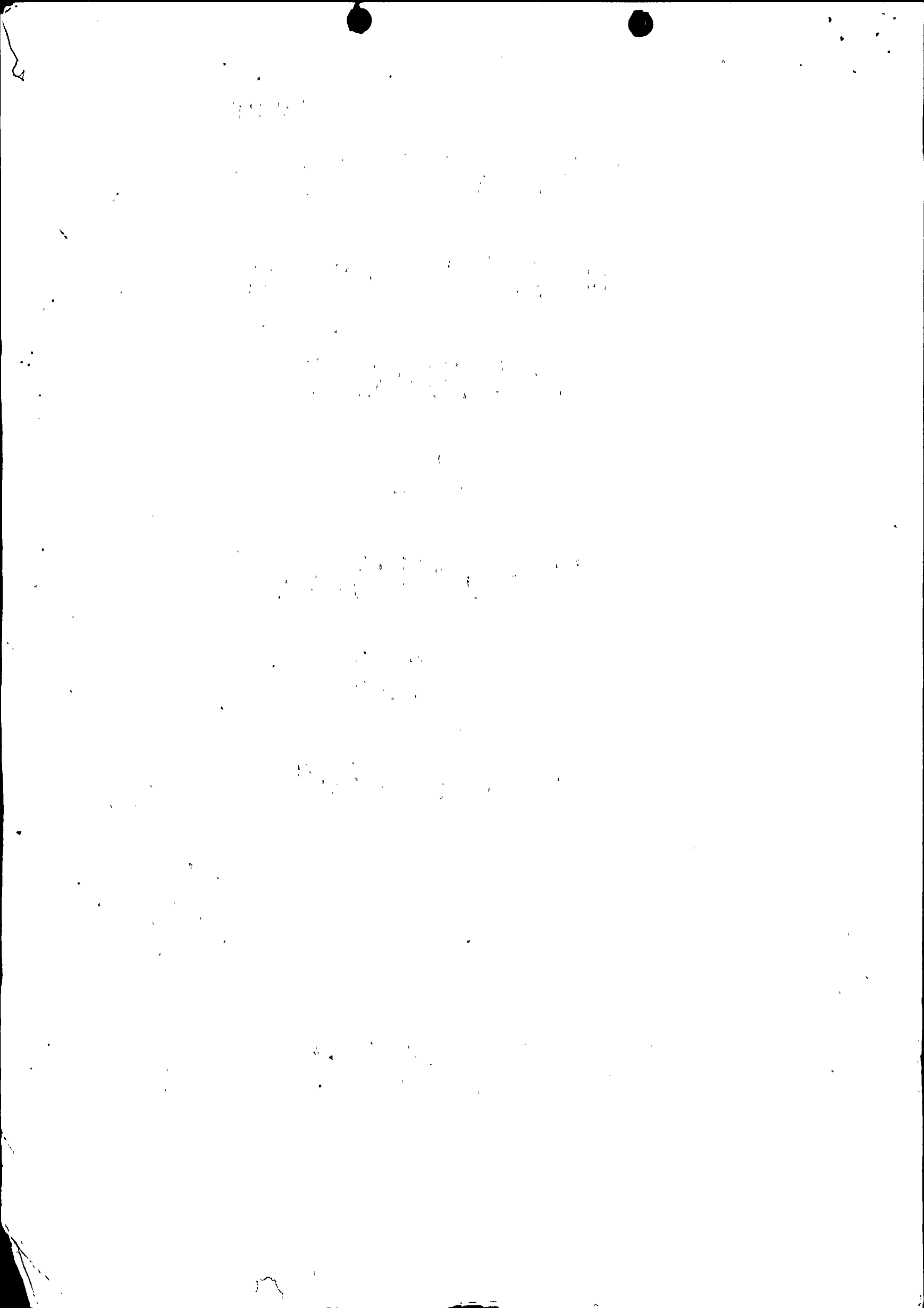
DOCKET NO. 58-220

**NINE MILE POINT
NUCLEAR STATION
ENGINEERING
AND
CONSTRUCTION
STATUS**

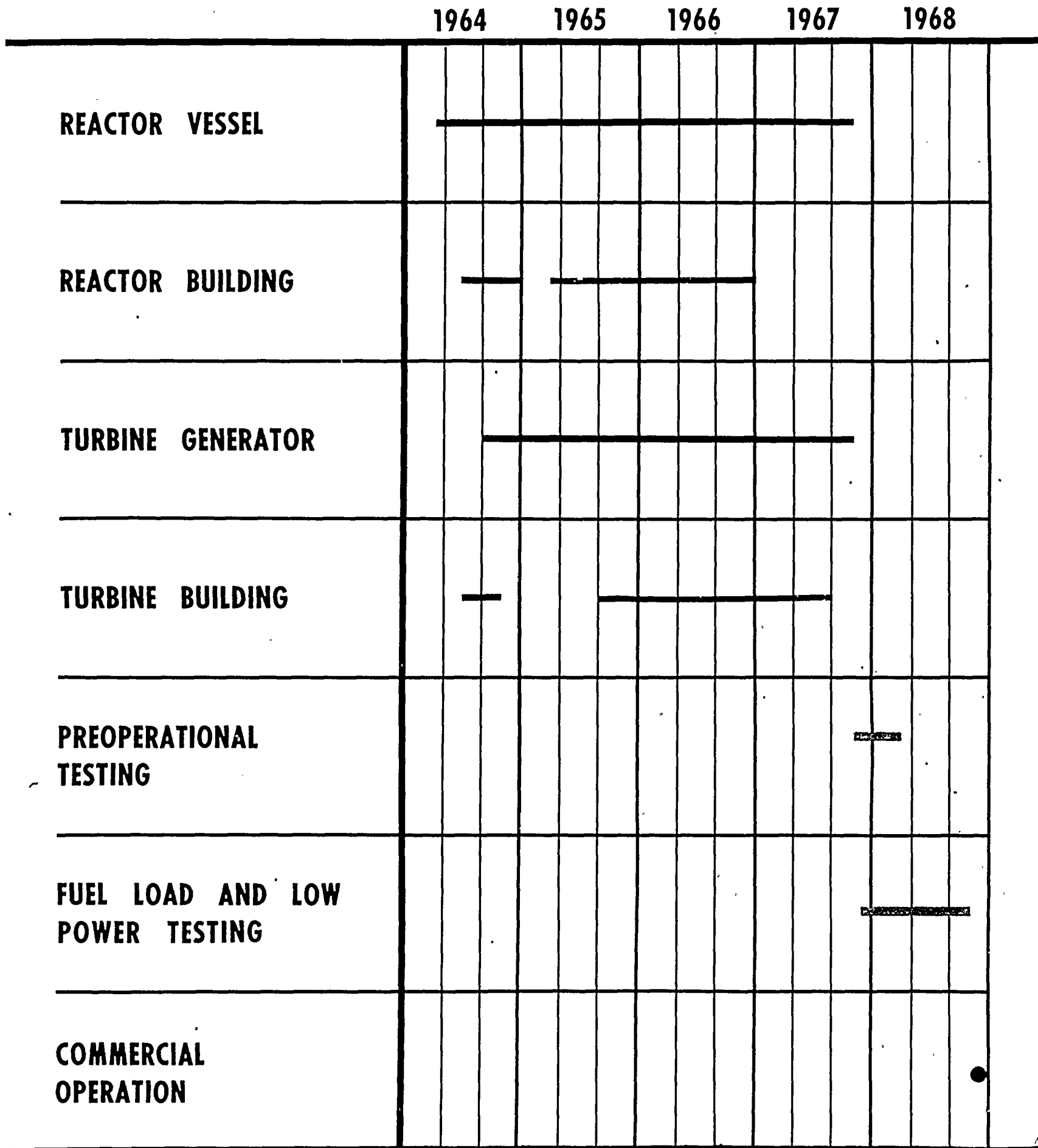
File Copy
(suppl. only)
EX-119 Copy

JUNE 1 1964





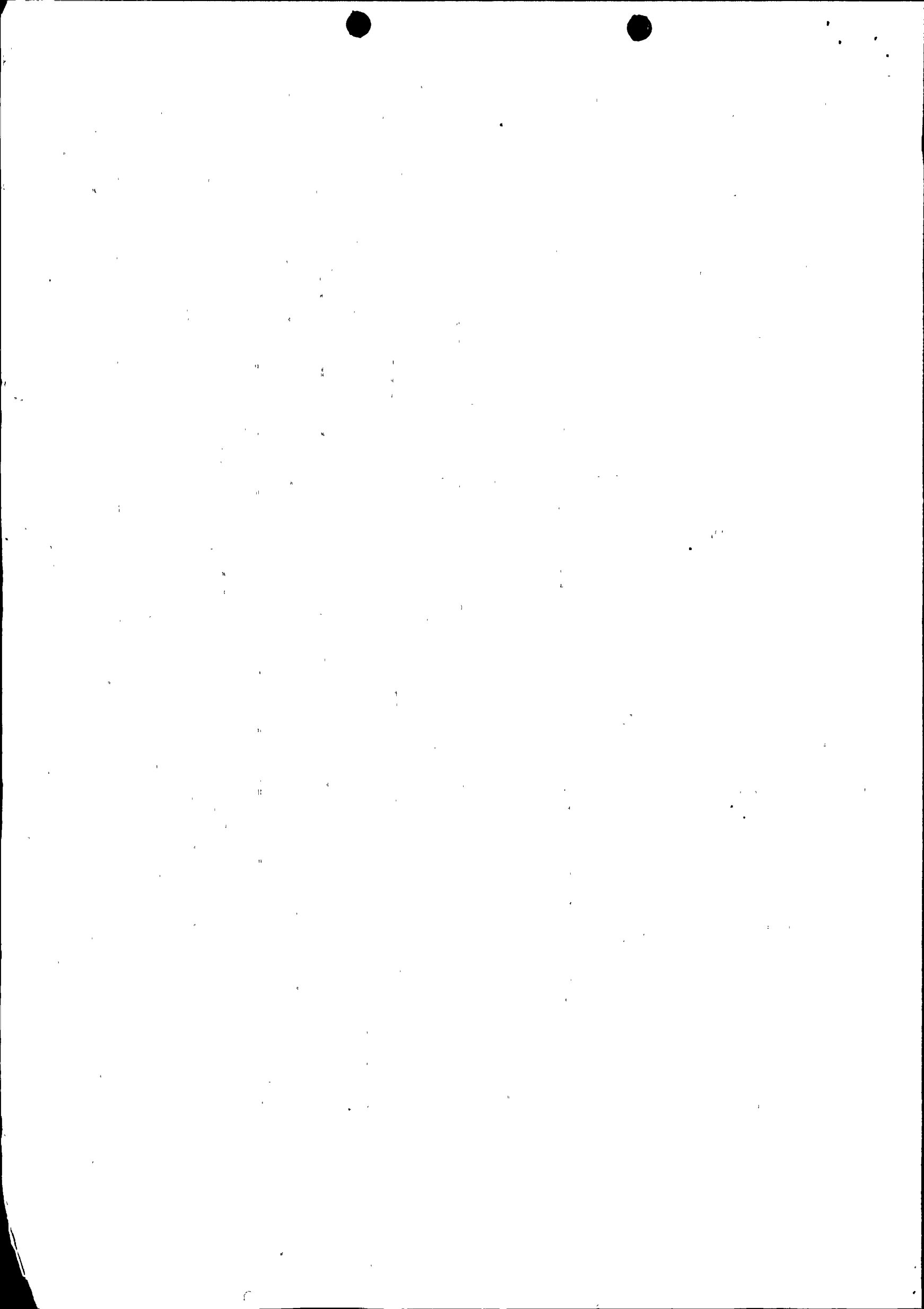
CONSTRUCTION AND START-UP SCHEDULE



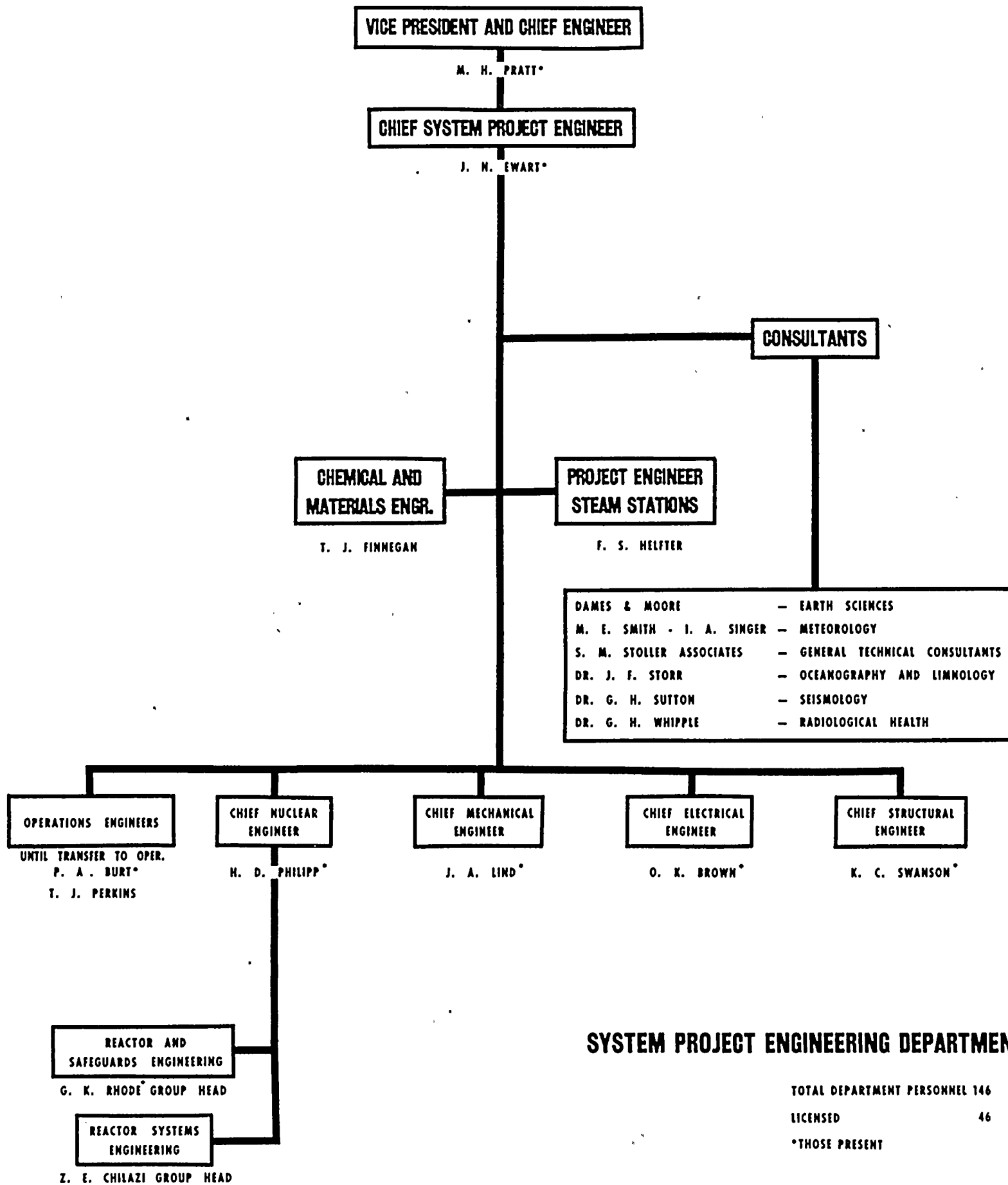
EXCAVATION
INSTALLATION

CONSTRUCTION
FABRICATION

TESTING

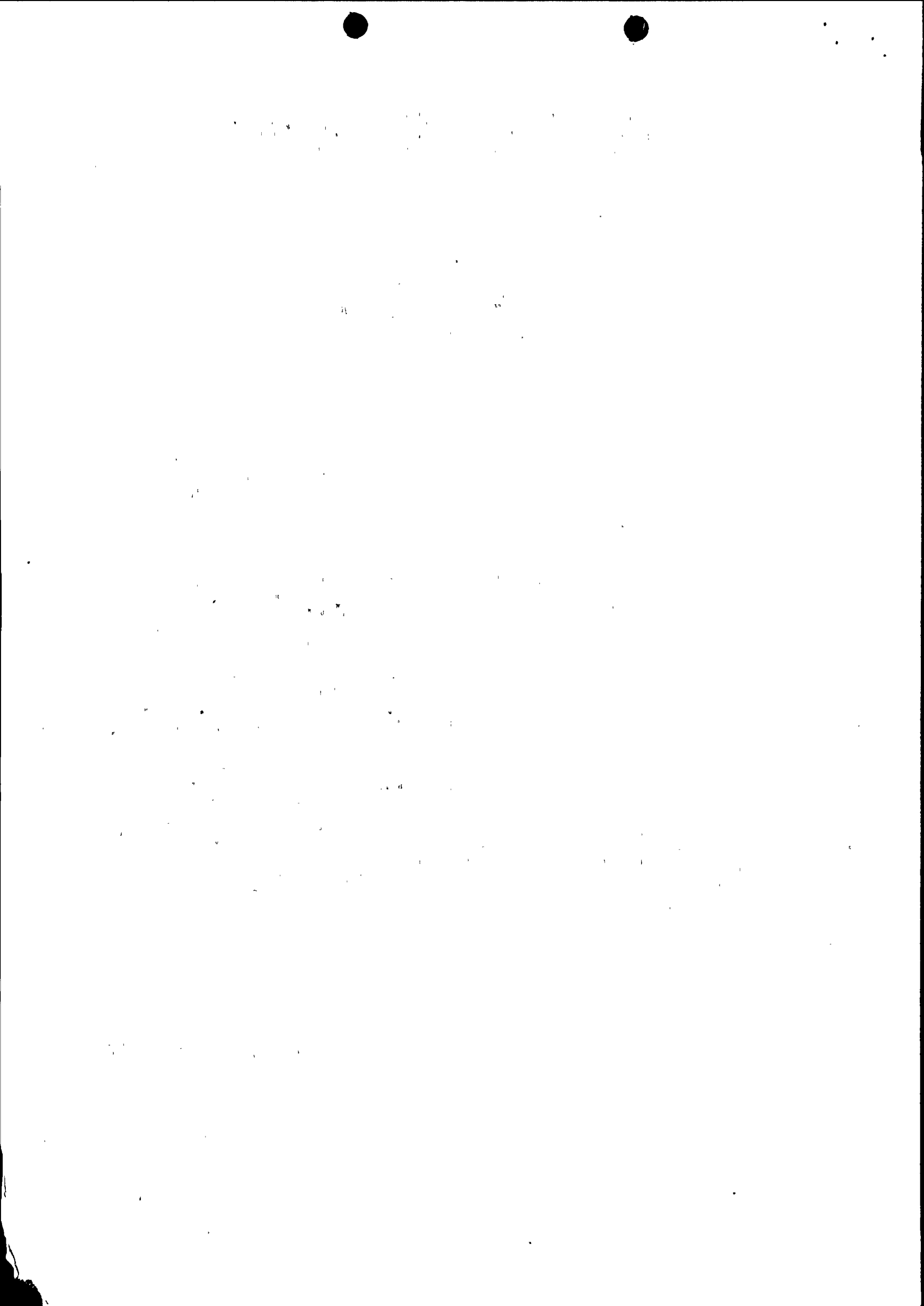


ORGANIZATION CHART



SYSTEM PROJECT ENGINEERING DEPARTMENT

TOTAL DEPARTMENT PERSONNEL 146
 LICENSED 46
 *THOSE PRESENT



ORGANIZATION CHART - OPERATIONS

VICE PRESIDENT OPERATIONS

F. J. SCHNEIDER

**GENERAL SUPERINTENDENT
OPERATIONS CENTRAL DIVISION**

J. BARTLETT

OPERATIONS ENGINEERS

P. A. BURT - TO BE PLANT SUPT.

T. J. PERKINS - TO BE ASS'T PLANT SUPT.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is essential for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support informed decision-making.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how advanced software solutions can streamline data collection, storage, and analysis, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It stresses the importance of implementing robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document explores the integration of data with other organizational systems. It discusses how data can be leveraged to enhance collaboration and communication across different departments and teams.

6. The sixth part of the document concludes by summarizing the key findings and recommendations. It reiterates the importance of a data-driven approach to organizational management and the need for continuous improvement in data practices.

STATUS OF ENGINEERING

NUCLEAR STEAM SUPPLY SYSTEM

CONTRACT WITH GENERAL ELECTRIC TO DESIGN
AND FURNISH CERTAIN EQUIPMENT AND SYSTEMS
SIGNED MARCH 31, 1964.

TURBINE GENERATOR

ORDER PLACED WITH GE
MARCH 31, 1964.

ELECTRICAL EQUIPMENT

ORDER PLACED WITH GE
MARCH 31, 1964

CONDENSER

NMP SPECIFICATIONS OUT TO VENDORS
BIDS DUE EARLY JUNE 1964

FEEDWATER HEATERS

BIDS RECEIVED MAY 1964.

CONDENSATE AND FW BOOSTER PUMPS

NMP SPECIFICATIONS ISSUED
APRIL 1964 BIDS DUE JUNE 1964

PRESSURE SUPPRESSION SYSTEM

PROPOSALS RECEIVED FROM
C B & I MAY 1964

BOILER FEED PUMPS

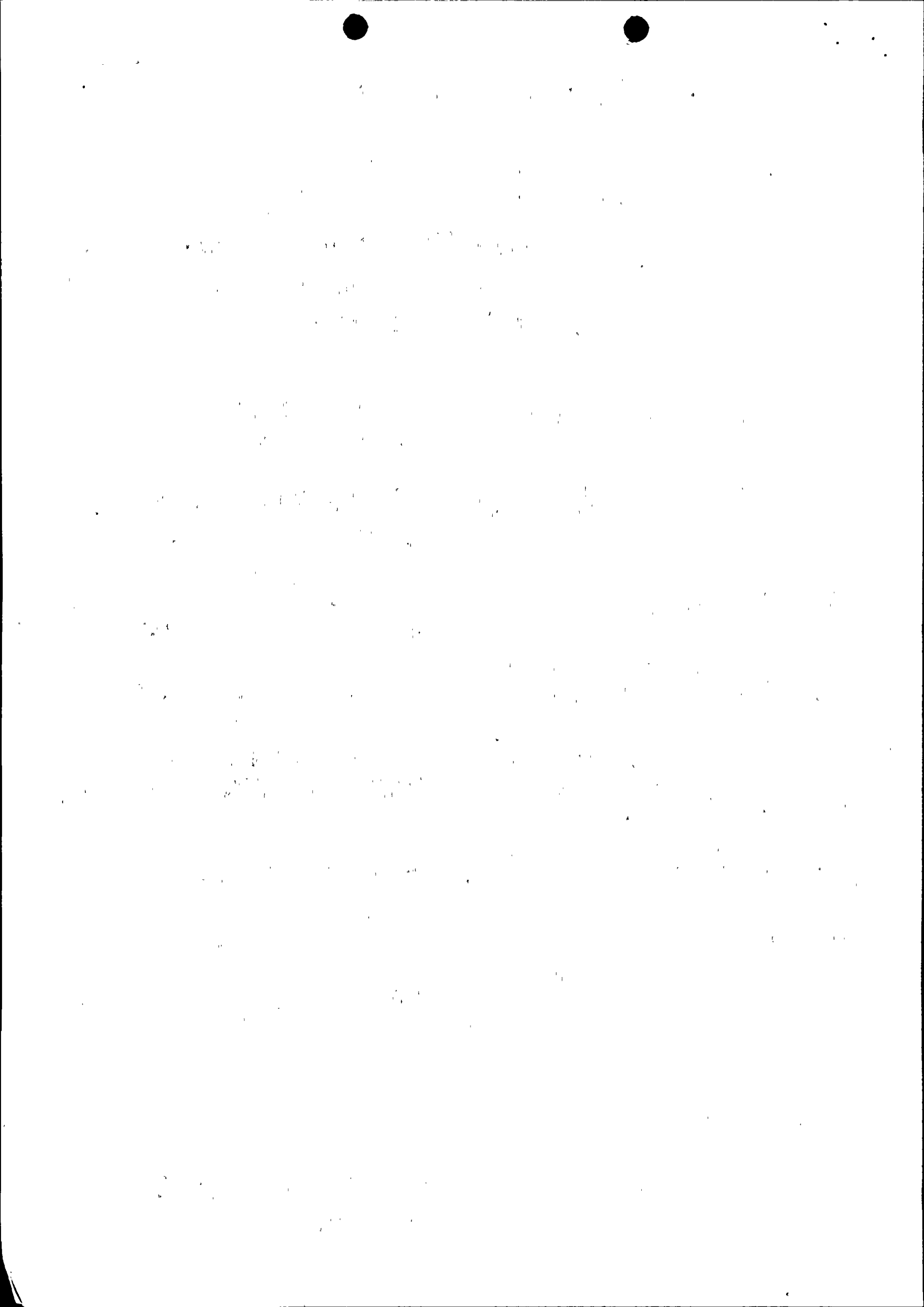
PROPOSAL RECEIVED MAY 1964.

CONTAINMENT VENTILATION UNITS

PROPOSALS RECEIVED APRIL 1964

PLANT SEWERAGE SYSTEM

NMP SPECIFICATIONS ISSUED
MAY 1964.



CURRENT ENGINEERING EMPHASIS

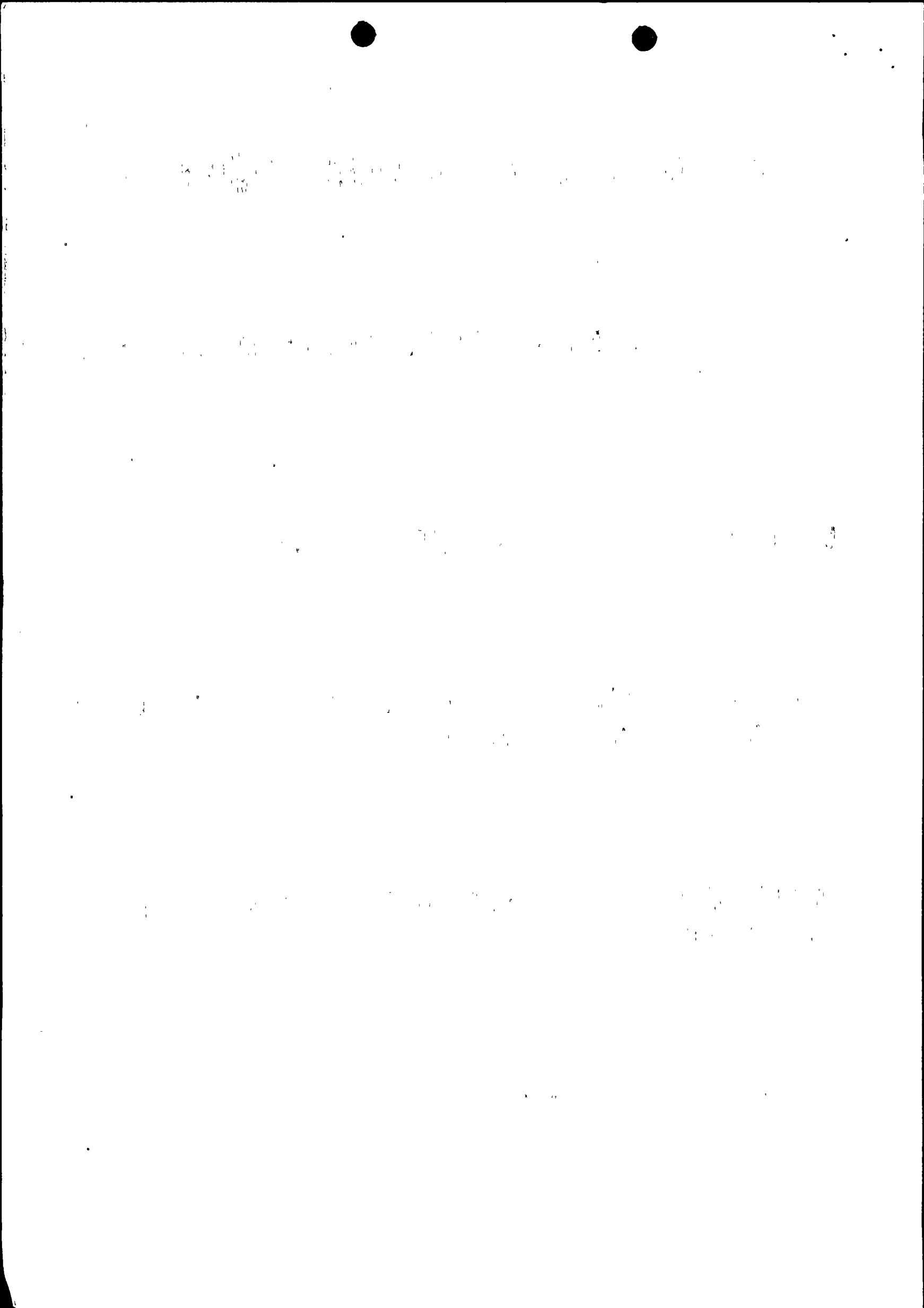
CONTINUATION OF SAFETY STUDIES RELATED TO STATION DESIGN AND LAYOUT

COMPLETION OF DETAILED FUNCTIONAL SPECIFICATIONS

COMPLETION OF PURCHASE SPECIFICATIONS AND PROCUREMENT ACTIVITIES FOR MAJOR EQUIPMENT ITEMS

FINALIZE DESIGN AREAS PERTINENT TO EXCAVATIONS AND GRADING ETC.

INFORMATION CENTER DESIGN



OTHER TYPICAL DESIGN PROGRESS

CONDENSER

MODIFIED FROM 3 SHELL TO A SINGLE SHELL UNIT WITH 3 COMPARTMENTS

EMERGENCY COOLING SYSTEMS

FOUR TANKS NOW UNDER CONSIDERATION INSTEAD OF TWO (unwieldy for maintenance -i. e. tube pulling) .

FEEDWATER SYSTEM

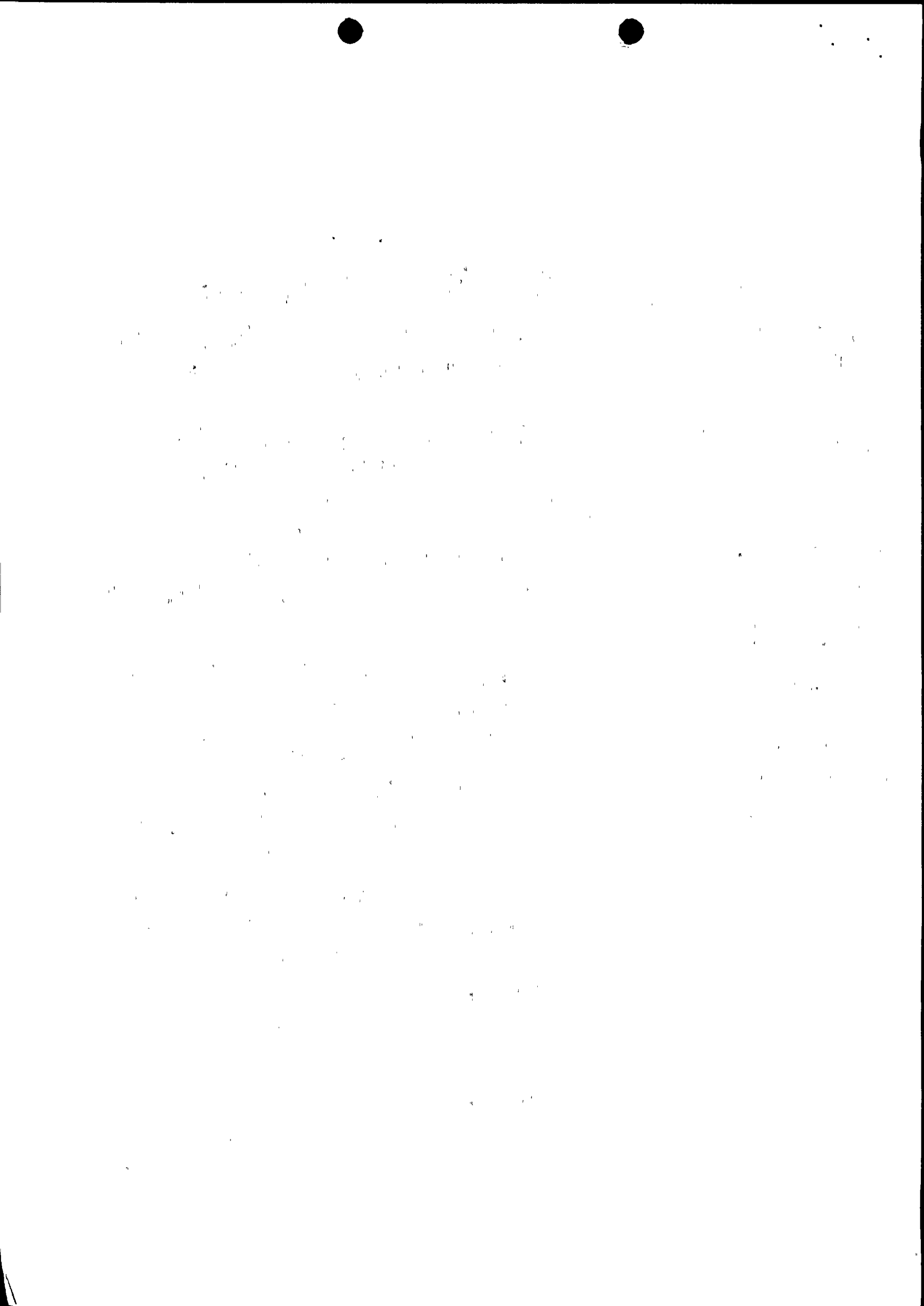
FEEDWATER BOOSTER PUMPS ADDED (to limit the shutoff pressure on the demineralizers) .

CONCRETE BIOLOGICAL SHIELD VENTILATION

MOVED INSIDE THE DRYWELL (eliminates need for water cooling system, simplified shielding arrangement).

- DRYWELL : two air changes per hour purge capacity 150f maximum temperature upon loss of one cooler. normal max. temp. 135f.
- REACTOR BUILDING : two duplicate full capacity normal ventilation systems. one air change per hour (one standby). two duplicate full capacity emergency ventilation systems. one air change per day and $\frac{1}{4}$ H₂O building vacuum (one standby). TWO DUPLICATE FULL CAPACITY FILTERING AND COOLING SYSTEMS. (to accomodate maintenance outages and full core capacity conditions.)

FUEL POOL



STATUS OF CONSTRUCTION

MANAGERS OF CONSTRUCTION

CONTRACT WITH STONE & WEBSTER TO MANAGE
CONSTRUCTION OF THE UNIT SIGNED AUG 13, 1963.
ESTABLISHED OFFICE AT SITE MAY 1964.

ROCK EXCAVATION

NMP SPECIFICATIONS OUT TO
VENDORS. BIDS DUE JUNE 10, 1964.

RAILROAD SIDING

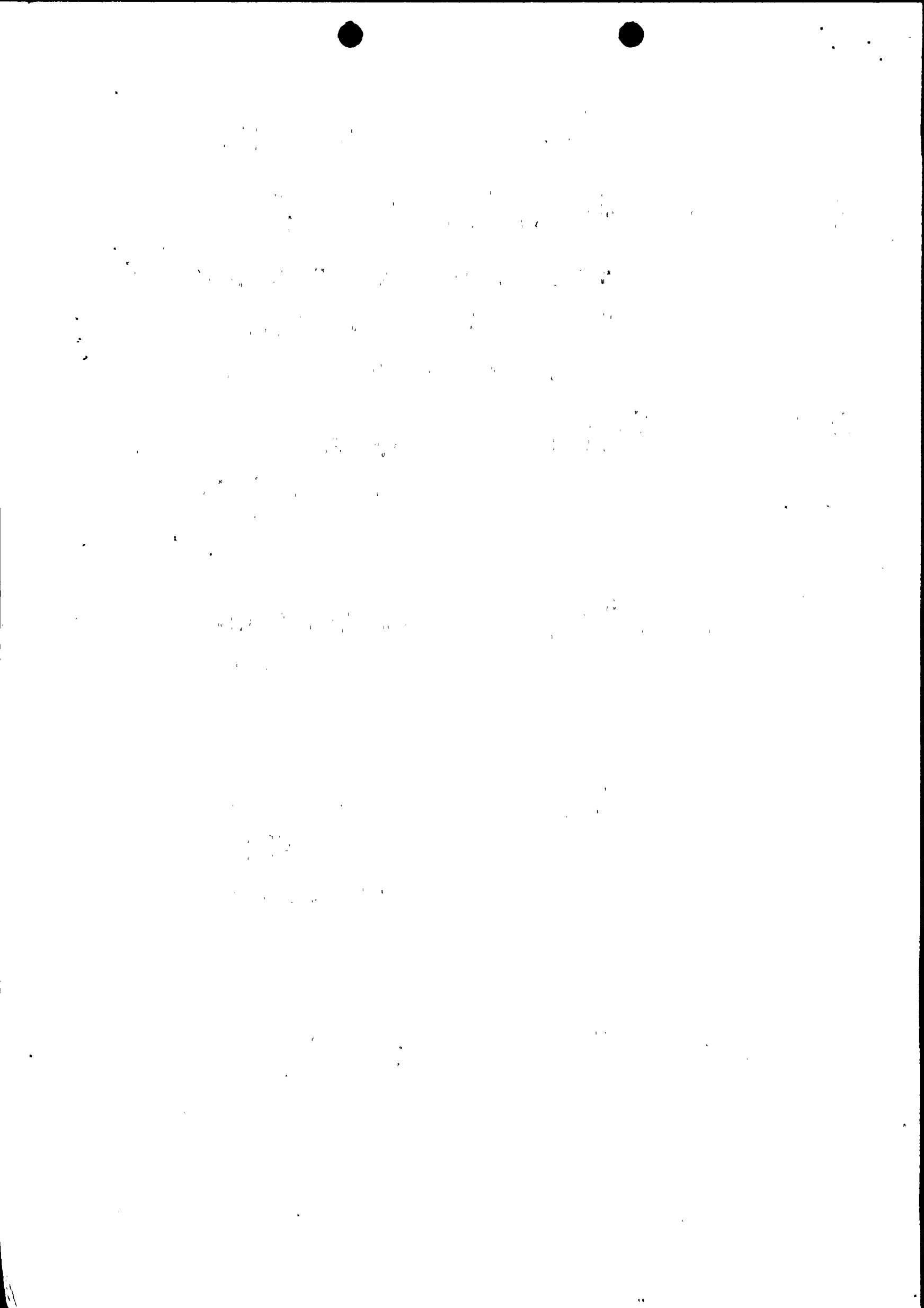
NEGOTIATIONS WITH NEW YORK
CENTRAL COMPLETE.

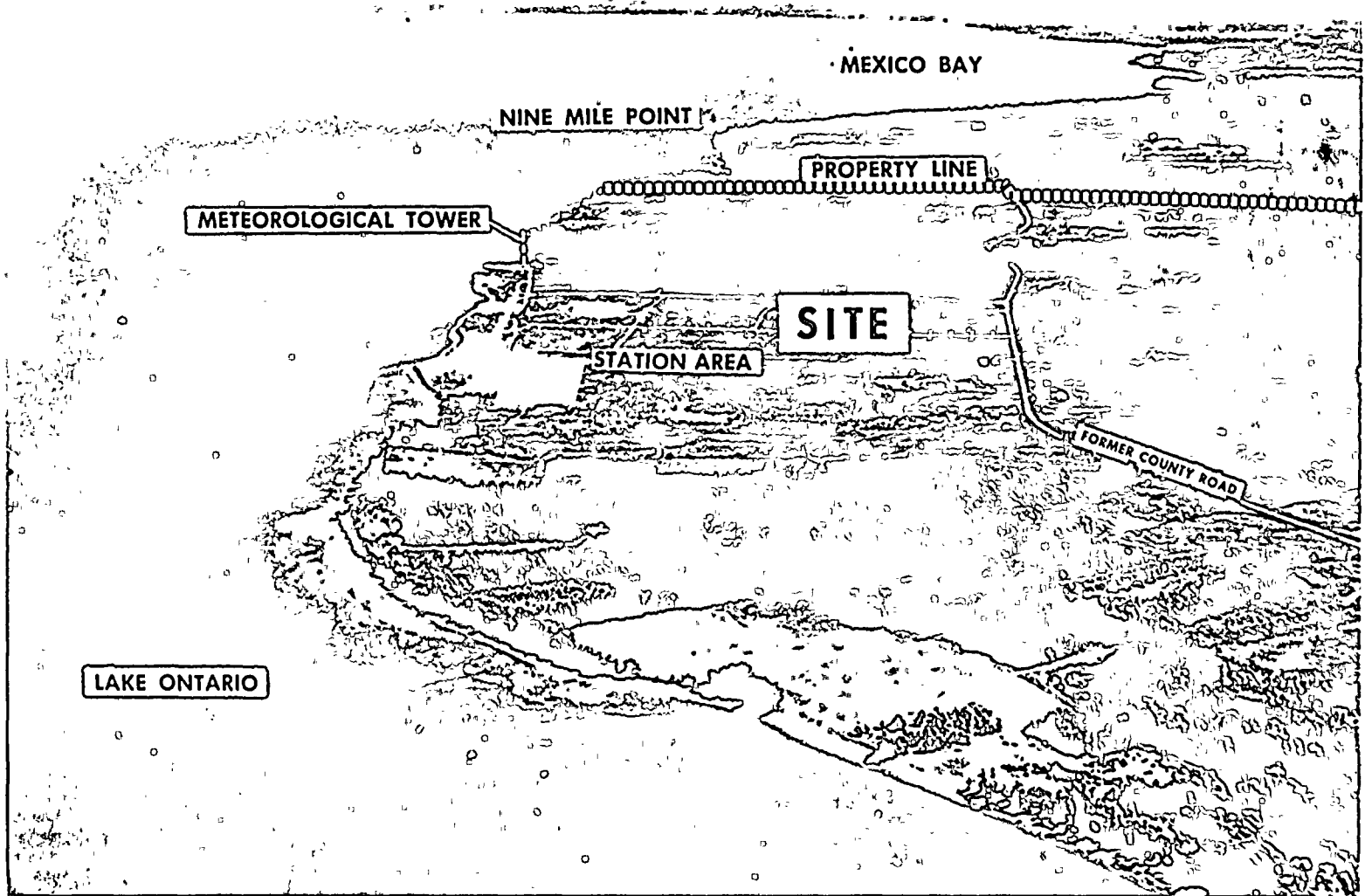
WATER SUPPLY

NEGOTIATIONS IN PROGRESS WITH
CITY OF OSWEGO FOR EXTENSION
OF WATER SUPPLY TO SITE

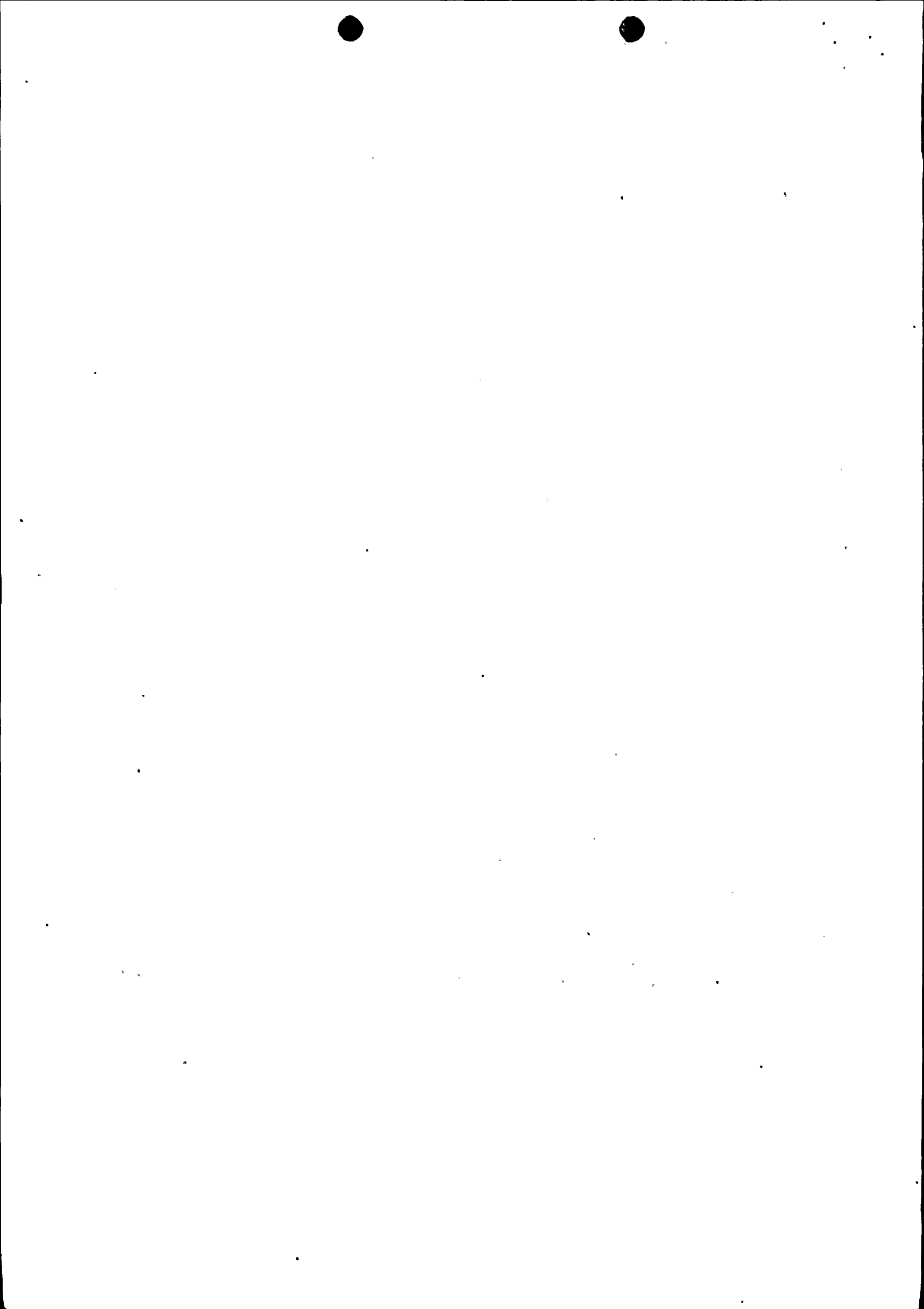
CONSTRUCTION ELECTRICAL SUPPLY

EQUIPMENT ORDERED FOR 115 KV
SWITCHYARD AND FOR
CONSTRUCTION SUBSTATION.
INSTALLATION DEC., 1964

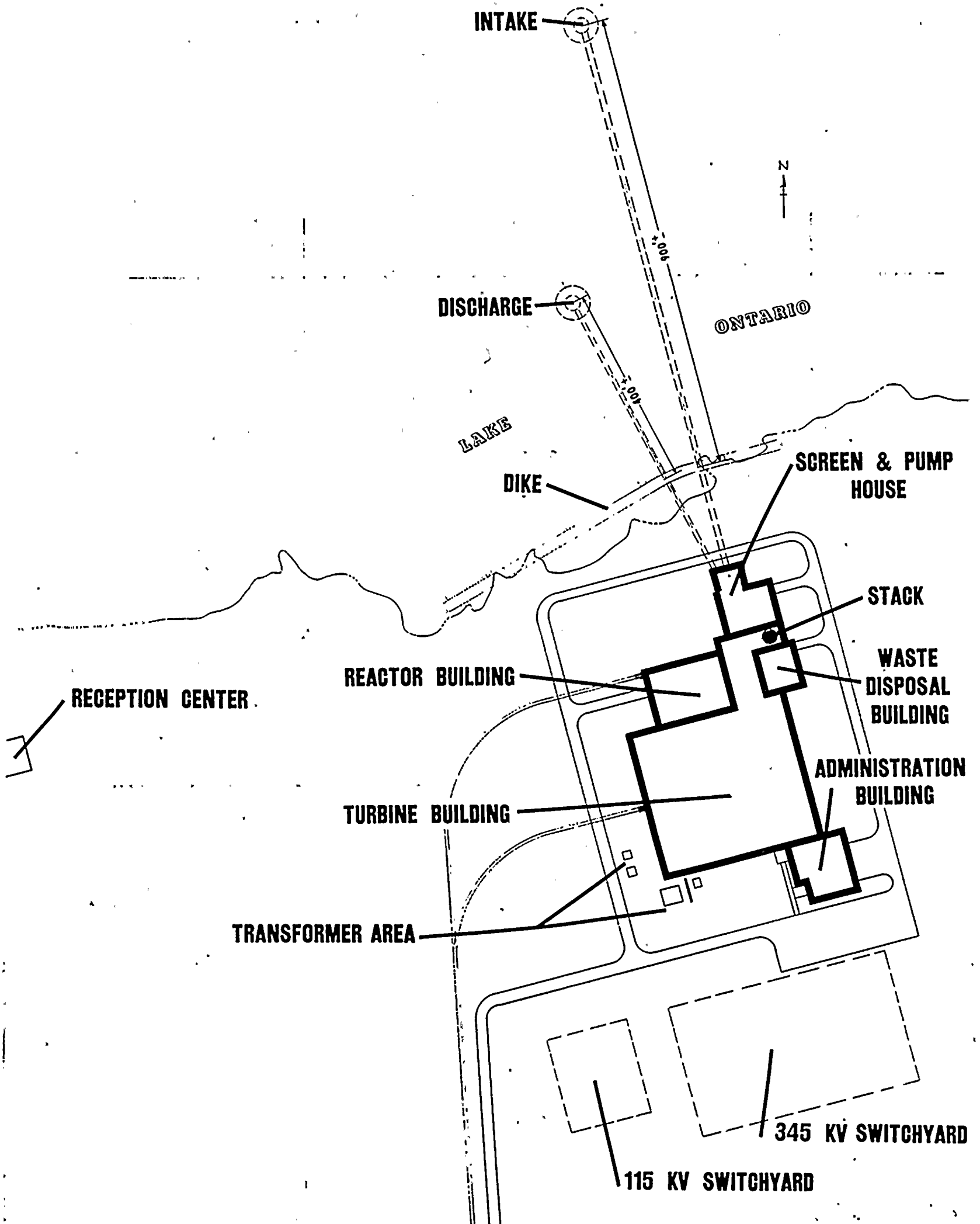


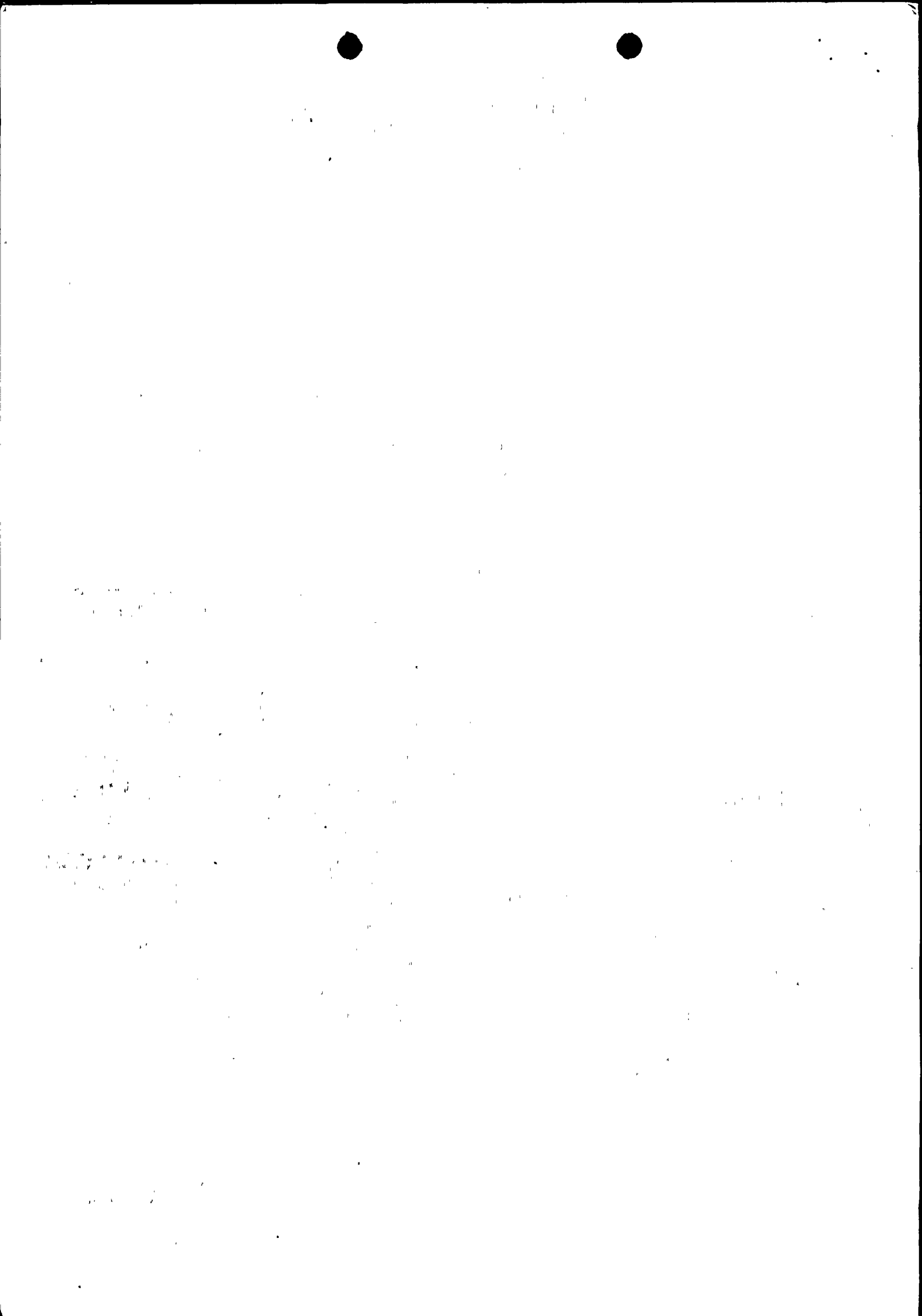


NINE MILE POINT NUCLEAR STATION SITE

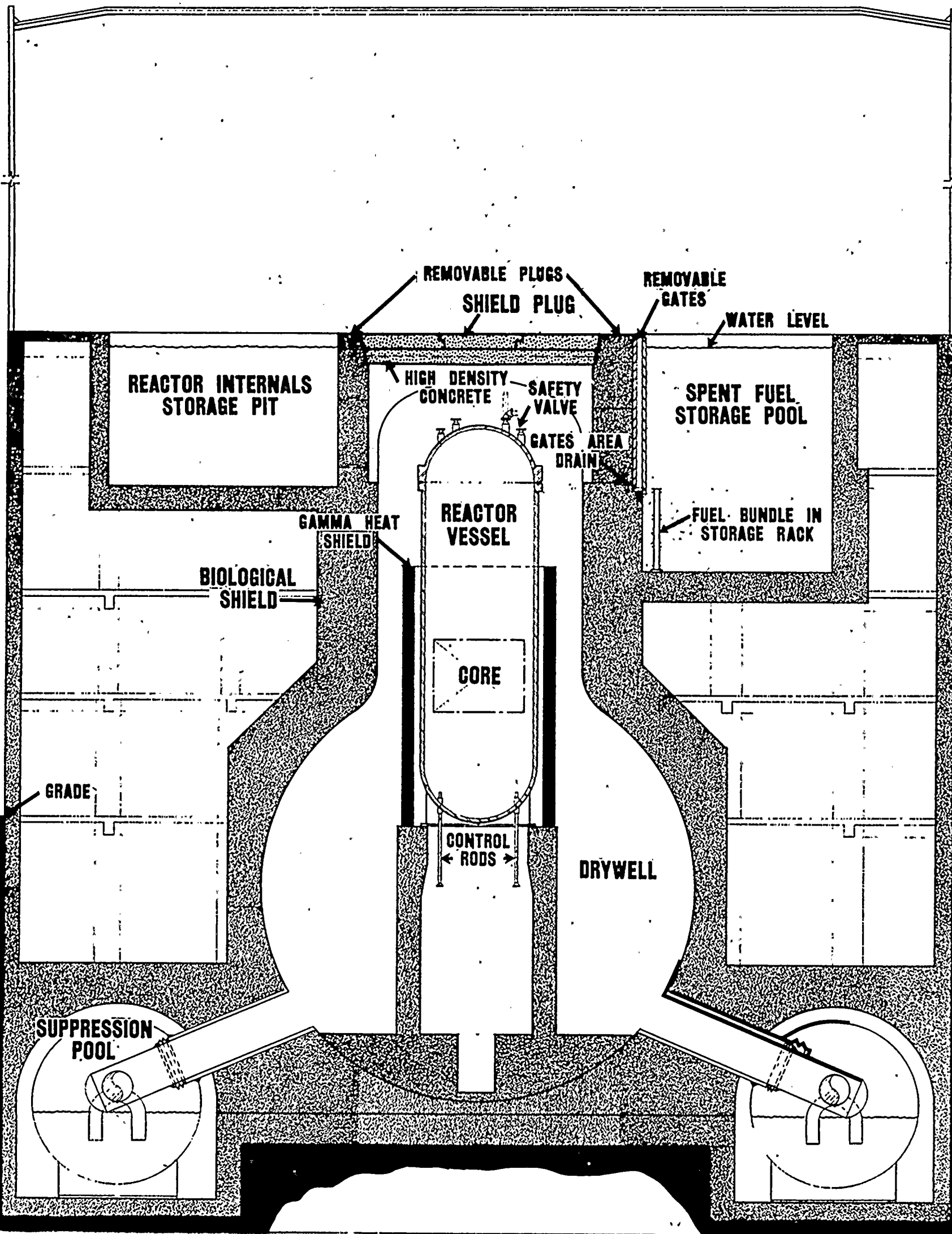


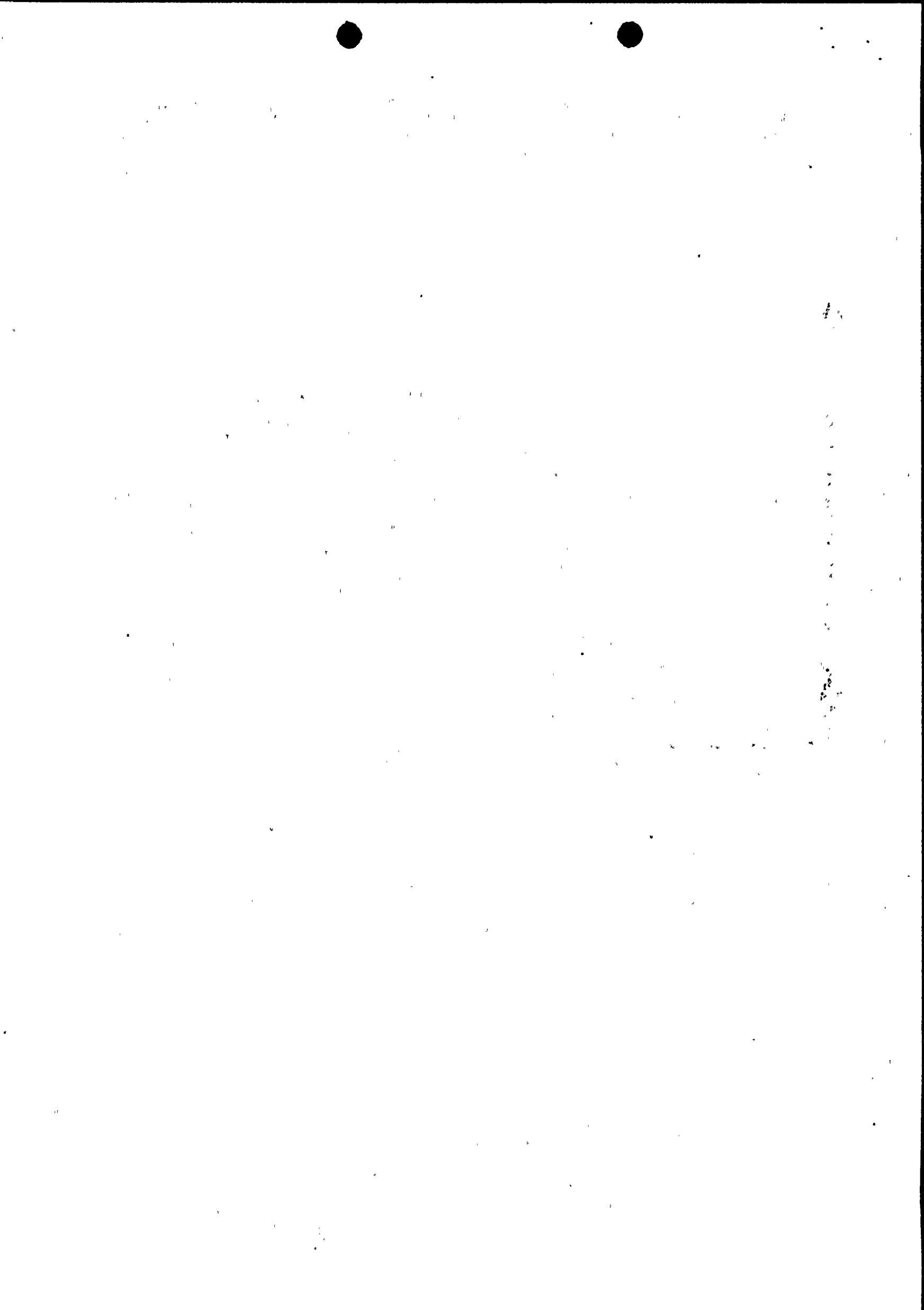
STATION PLOT PLAN



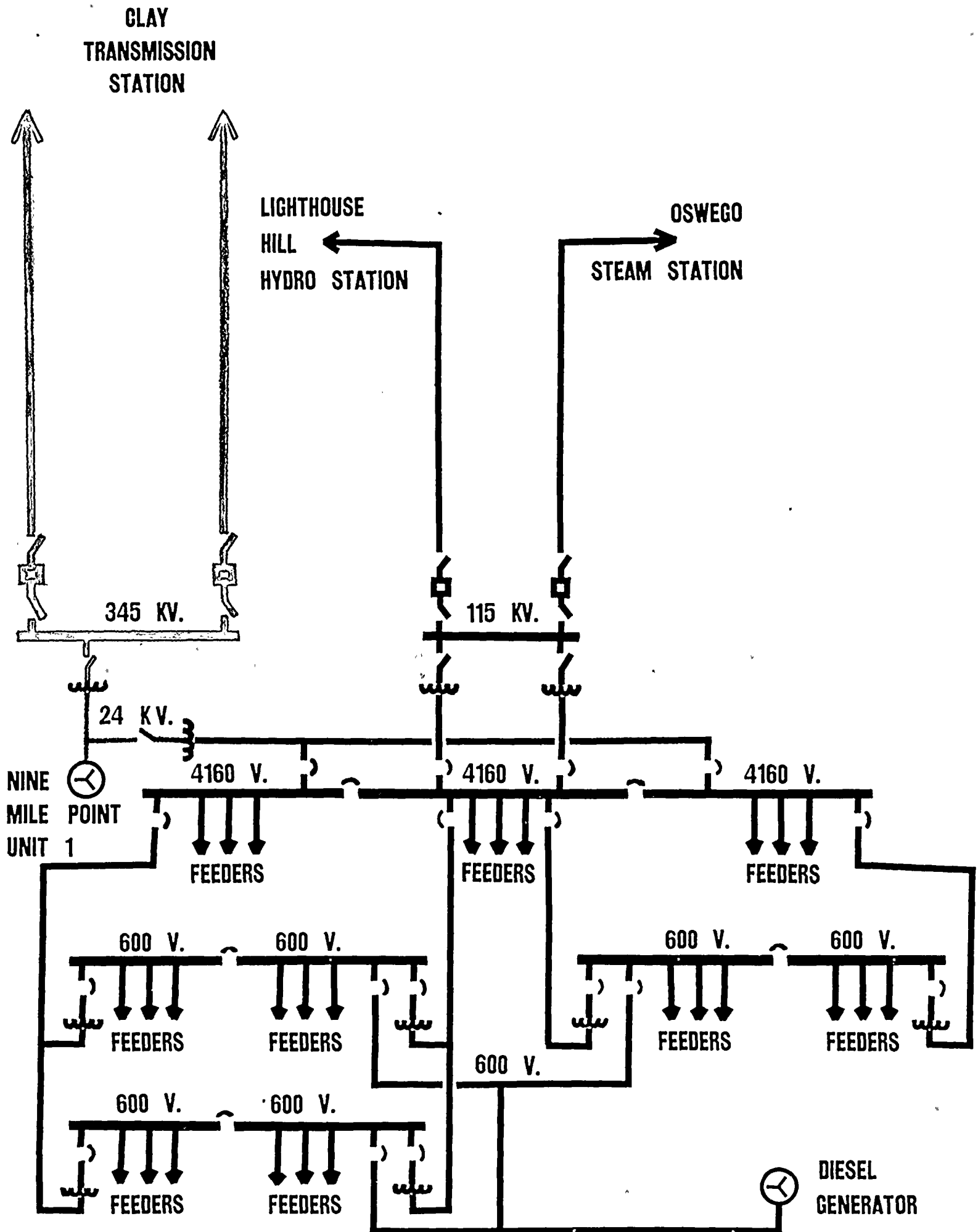


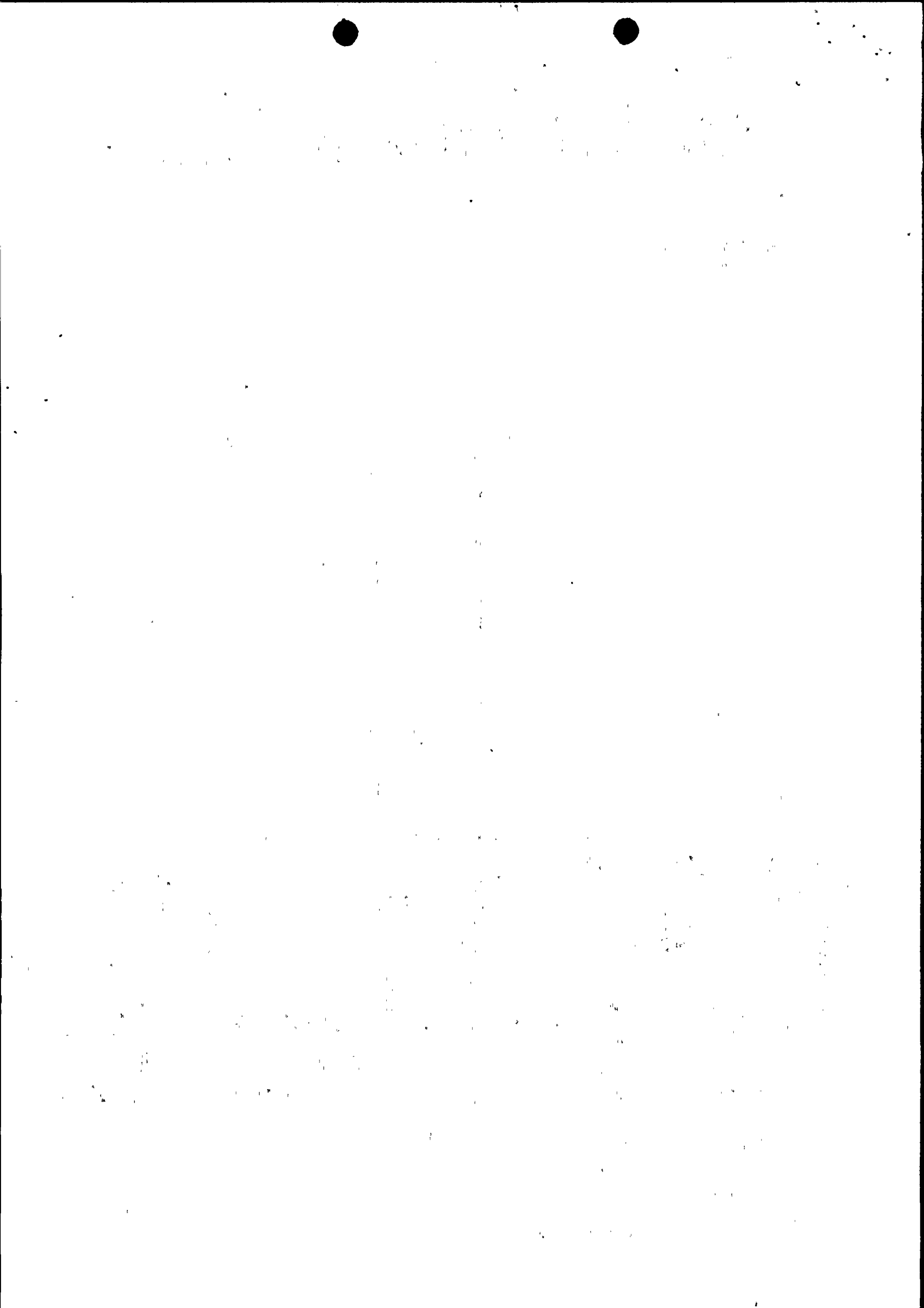
REACTOR CONTAINMENT AND SHIELD



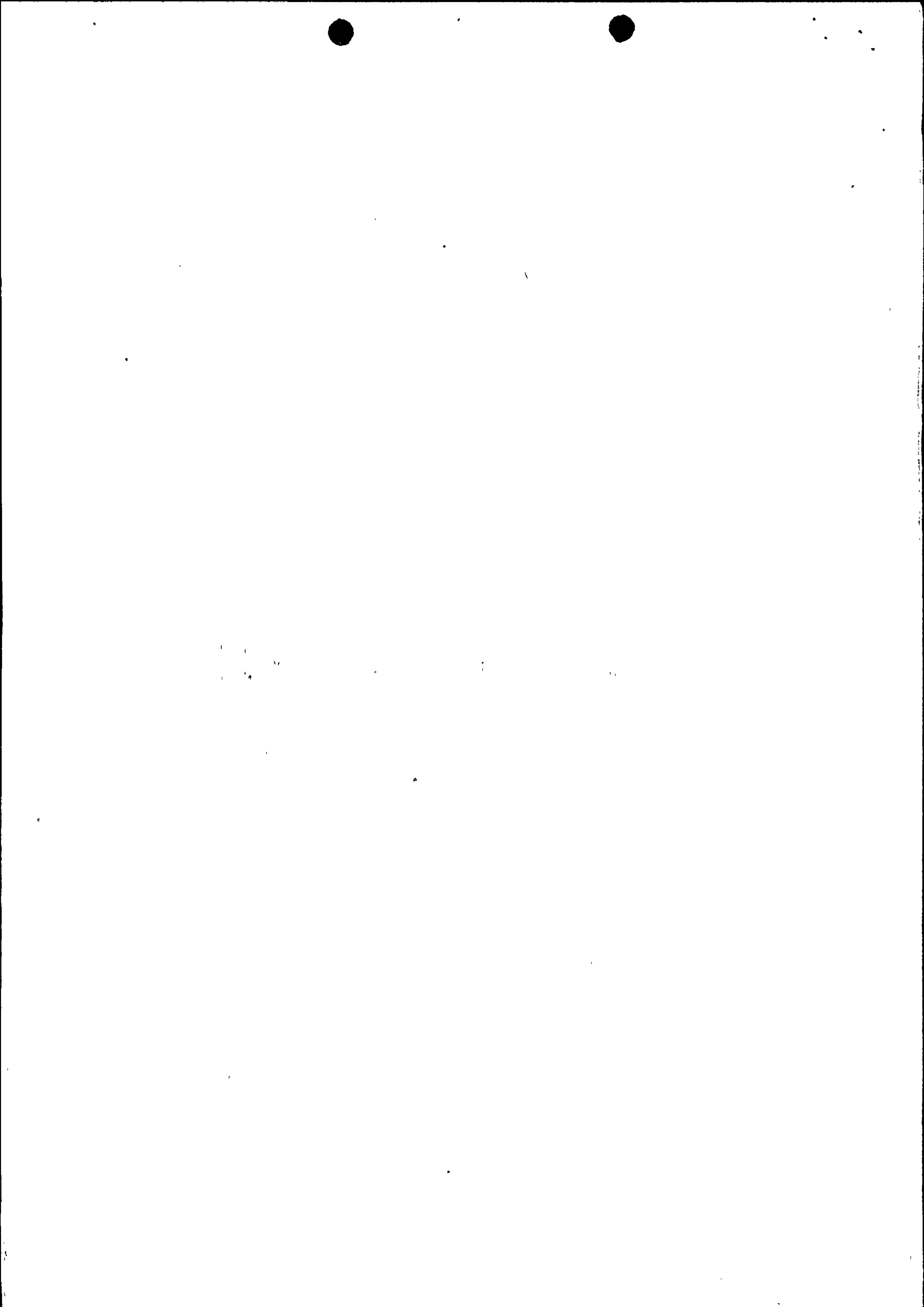


ELECTRICAL SINGLE LINE DIAGRAM





SITE SURVEY WORK



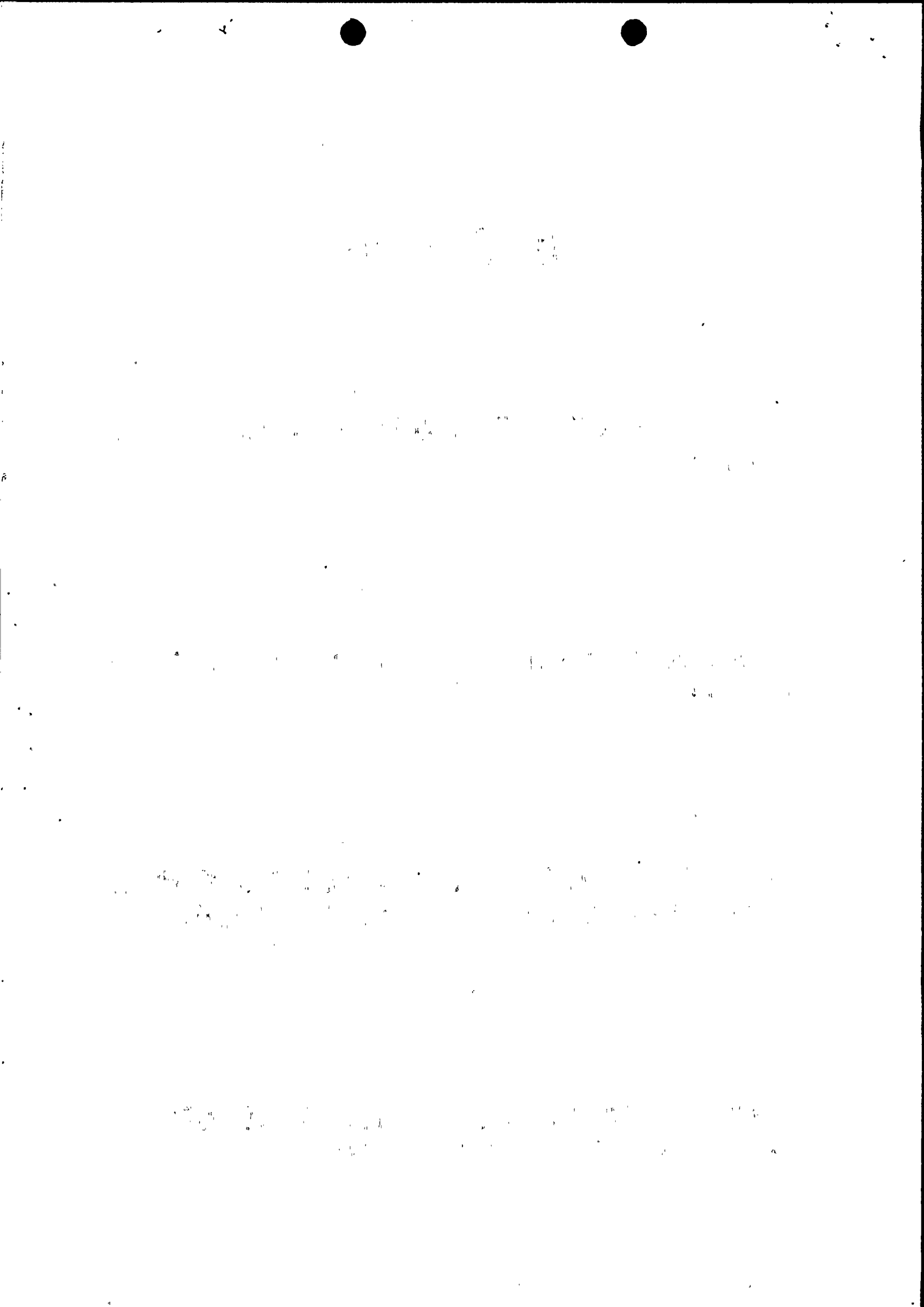
METEOROLOGY

**ALL FUNDAMENTAL FIELD WORK COMPLETED, 14 MONTH ANALYSIS
REPORTED IN PHSR**

**CONTINUING TOWER DATA COLLECTION TO IMPROVE DISTRIBUTION
STATISTICS**

**ATTEMPTING TO CORRELATE SITE DATA WITH OSWEGO WEATHER
BUREAU TO PREDICT LONG - TERM YEARLY VARIATIONS**

**CURRENTLY CHECKING INLAND DISTANCE OF LAKE BREEZE
PENETRATION WITH SATELLITE AEROVANE**



LIMNOLOGY

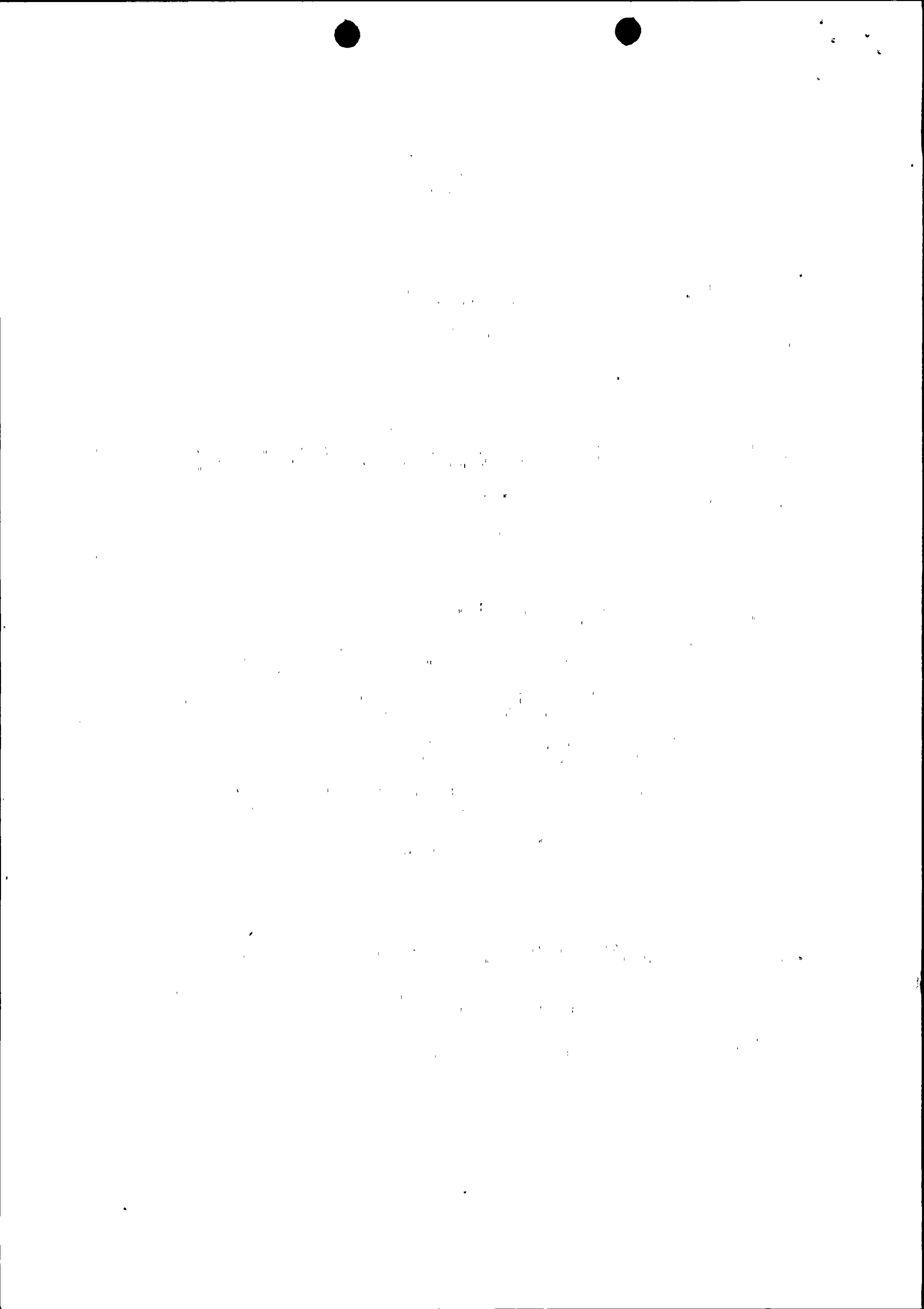
COMPREHENSIVE FIELD WORK COMPLETED,
RESULTS REPORTED IN PHSR

SUPPLEMENTAL LAKE SURVEY PROGRAM UNDERWAY WITH UP TO
40 CRUISES EXPECTED DURING 1964

CRUISE SPECIFICATIONS INCLUDE:

- WATER CHEMISTRY DETAILS NEAR INTAKE
- SUPPLEMENT PREVIOUS DATA ON CLOSE - IN CURRENTS
AND DILUTION FACTORS
- INVESTIGATE VARIOUS LOCALIZED EFFECTS
(i. e. intake drawdown, etc.)

START EXPLORATORY BIOLOGICAL SURVEY (non - radiological)
TO ESTABLISH PROCEDURES AND BEGIN
YEARLY RECORD OF MARINE ORGANISMS



SEISMOLOGY

FIELD WORK COMPLETE, RESULTS REPORTED IN PHSR

ENGINEERING APPLICATION OF DESIGN EARTHQUAKE MOTION
CONTINUING

- CLASSIFICATION OF EQUIPMENT AND STRUCTURES
- DEVELOPMENT OF THE RESPONSE SPECTRUM



1941

1942

1943

1944

GEOLOGY

**FIELD WORK COMPLETE FOR SAFEGUARDS ANALYSIS , RESULTS
REPORTED IN PHSR**

ADDITIONAL WORK FOR CONSTRUCTION PURPOSES INCLUDES

- **UNDERWATER BORINGS FOR INTAKE AND DISCHARGE TUNNELS**
- **BORINGS FOR INFORMATION CENTER FOUNDATION**
- **GEOLOGICAL ANALYSIS OF EXCAVATION**

HYDROLOGY

FIELD WORK COMPLETE, RESULTS REPORTED IN PHSR

