
Subject: DIGESTION OF YELLOWCAKE AND TRANSFER OF

10/27/10
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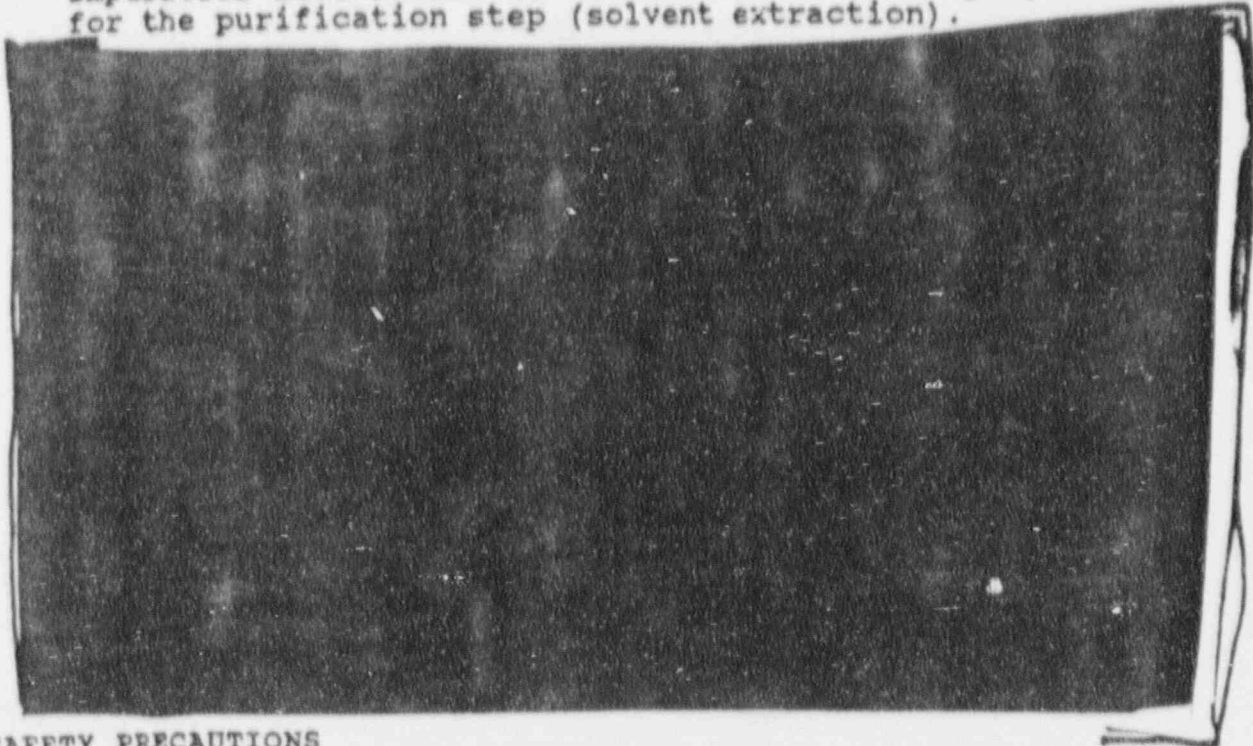
1.0 INTRODUCTION

1.1 Purpose

To establish the procedure for dissolving uranium concentrate (yellowcake) and transferring the dissolved yellowcake (slurry) to the adjustment tanks and then to the slurry break tank in solvent extraction.

1.2 Background

Yellowcake contains compounds of uranium as well as many other compounds of materials considered to be impurities. The compounds of uranium and the compounds containing the impurities must be dissolved in nitric acid in preparation for the purification step (solvent extraction).



2.0 SAFETY PRECAUTIONS

Procedure Users must read and understand the following Safety Precautions which address areas of potential risk to life, limb and/or property.

The operating conditions, temperature, pressure, flow rates, etc. included in the body of the procedure are guidelines only.

The specific operating parameters as listed on the Process Parameter Sheet are to be followed.

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- 2.1 A face shield and chemical-resistant gloves must be worn when sampling the digester.
- 2.2 An acid suit, face shield and neoprene gloves must be worn when opening process lines in this area.
- 2.3 Refer to and follow G-160 Health and Safety Precautions and Requirements.

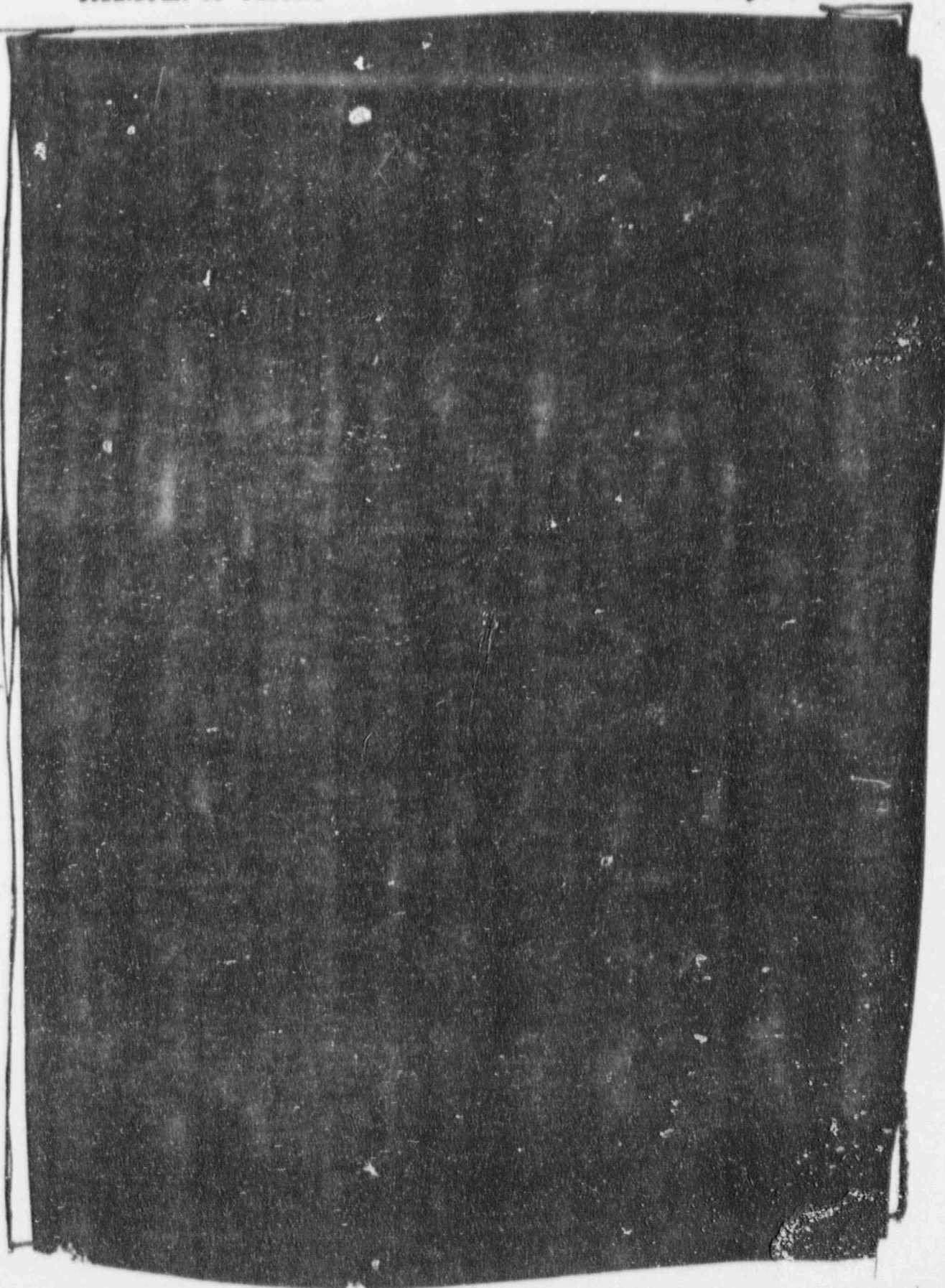
3.0 REFERENCES

- 3.1 Operating Procedure, N-600-1 "Nitric Acid Recovery"
- 3.2 Operating Procedure G-160, "Health and Safety Precautions and Requirements"
- 3.3 MSDS, Nitric Acid (HNO_3)

4.0 PROCEDURE

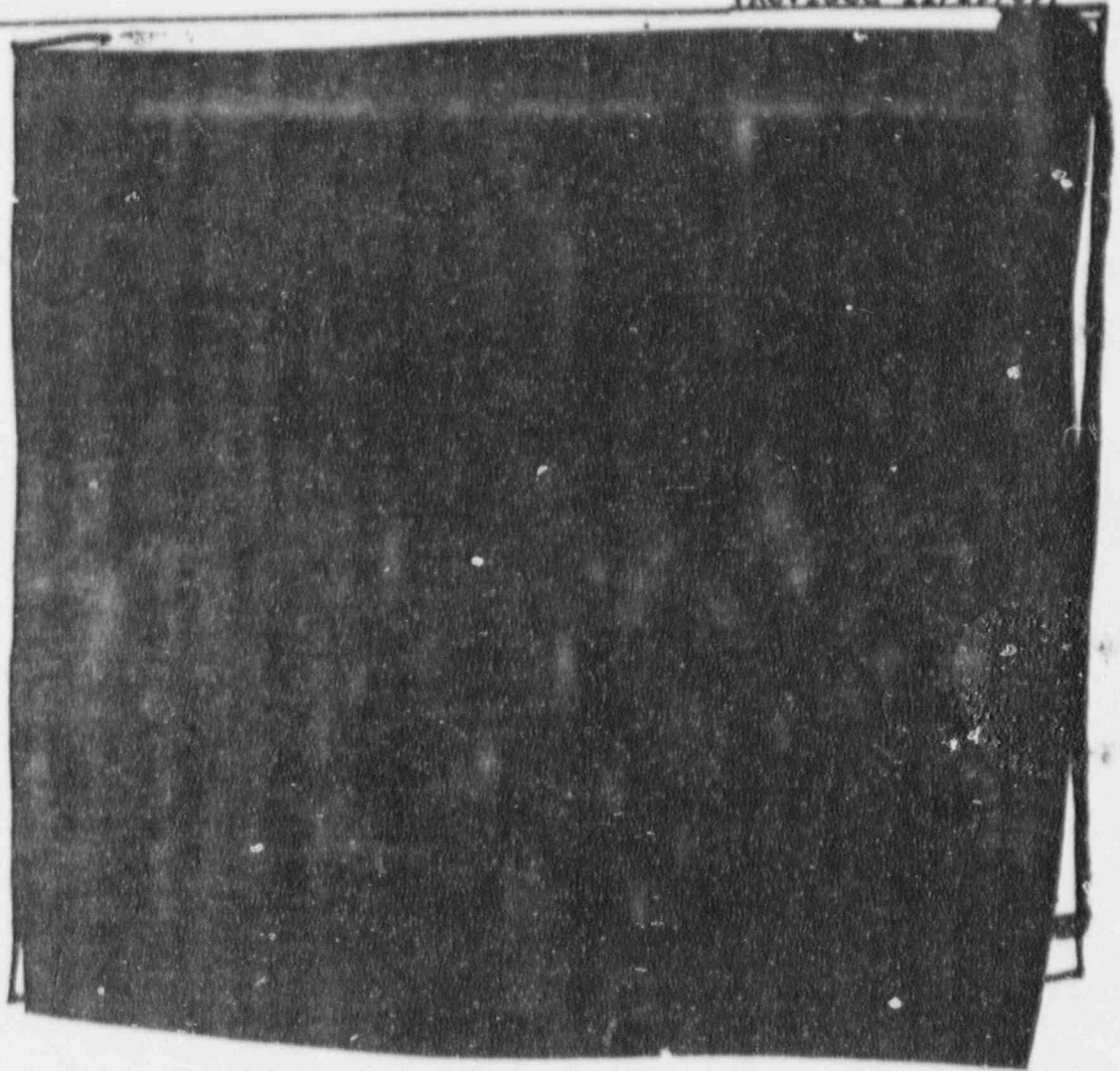


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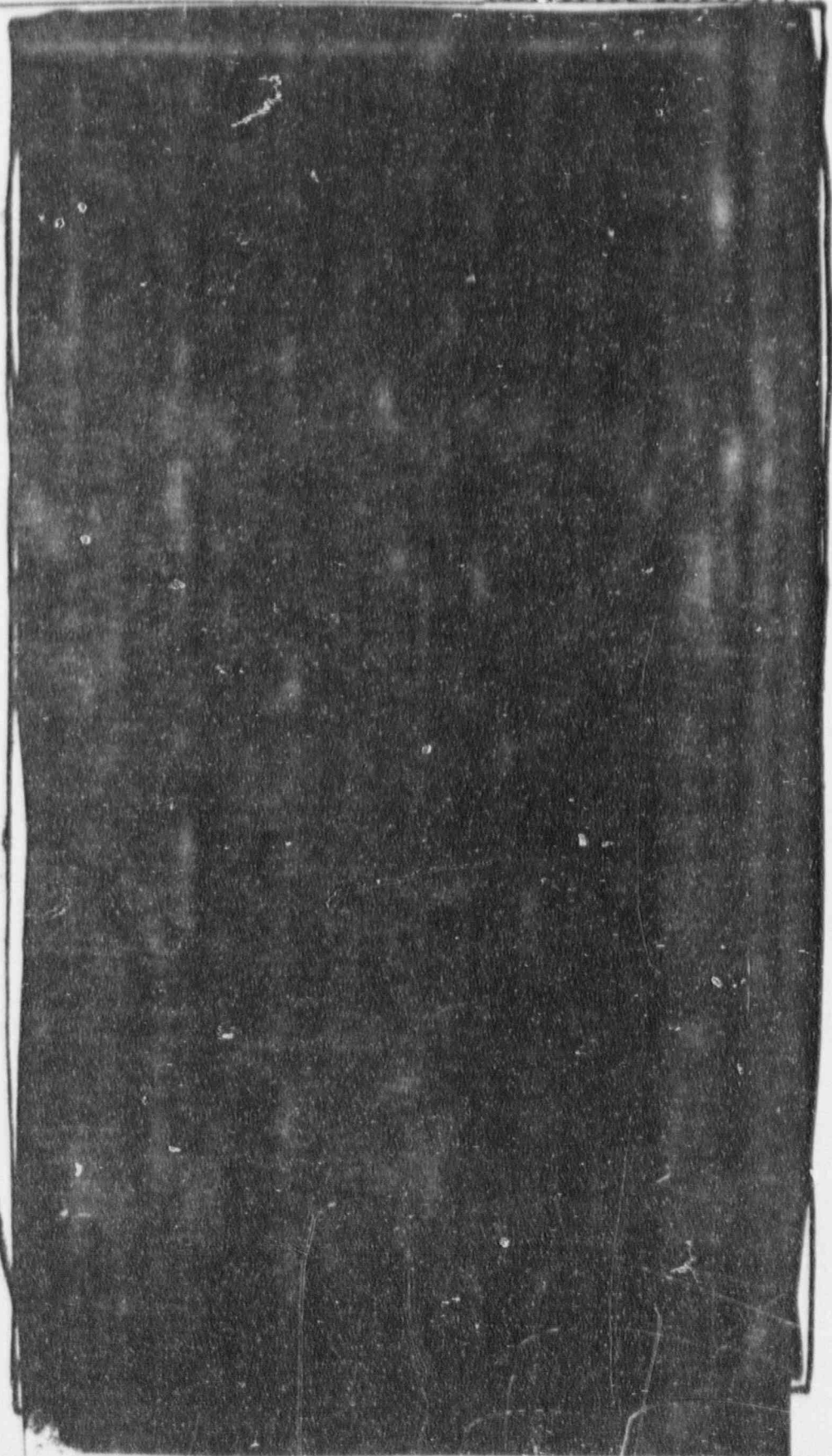


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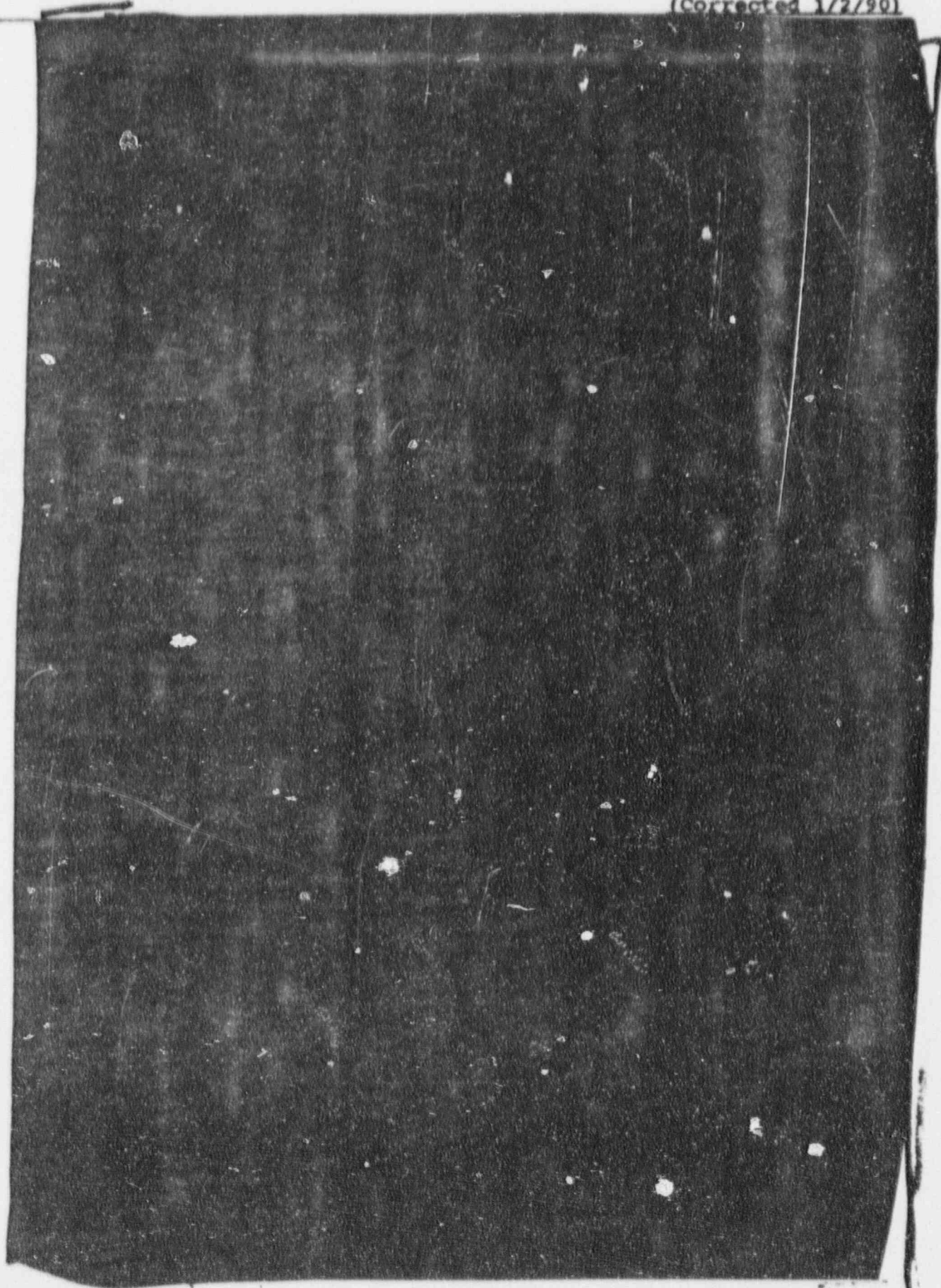
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SEQUOYAH FACILITY OPERATING PROCEDURE

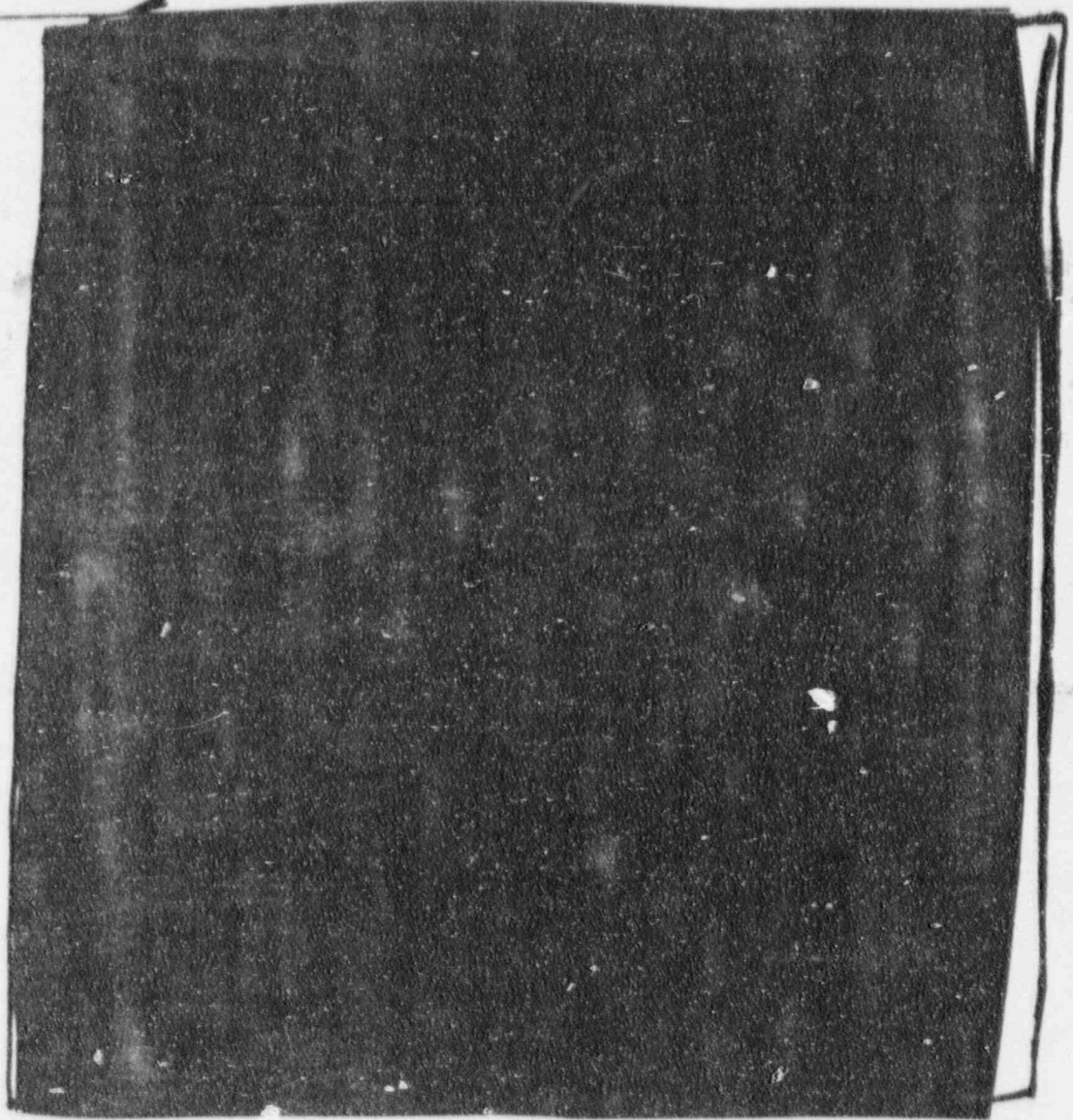
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FIGURE 1



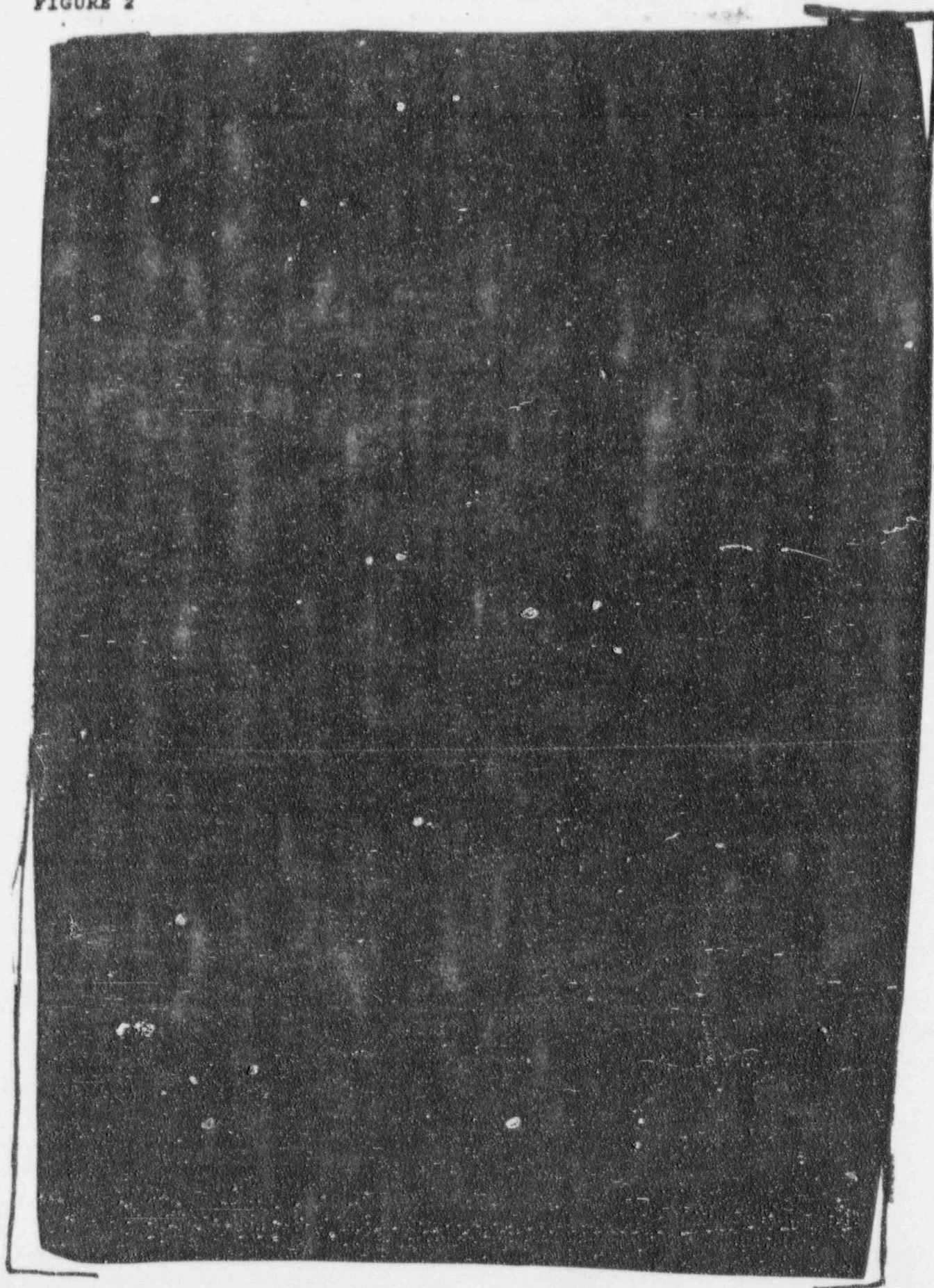
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FIGURE 2



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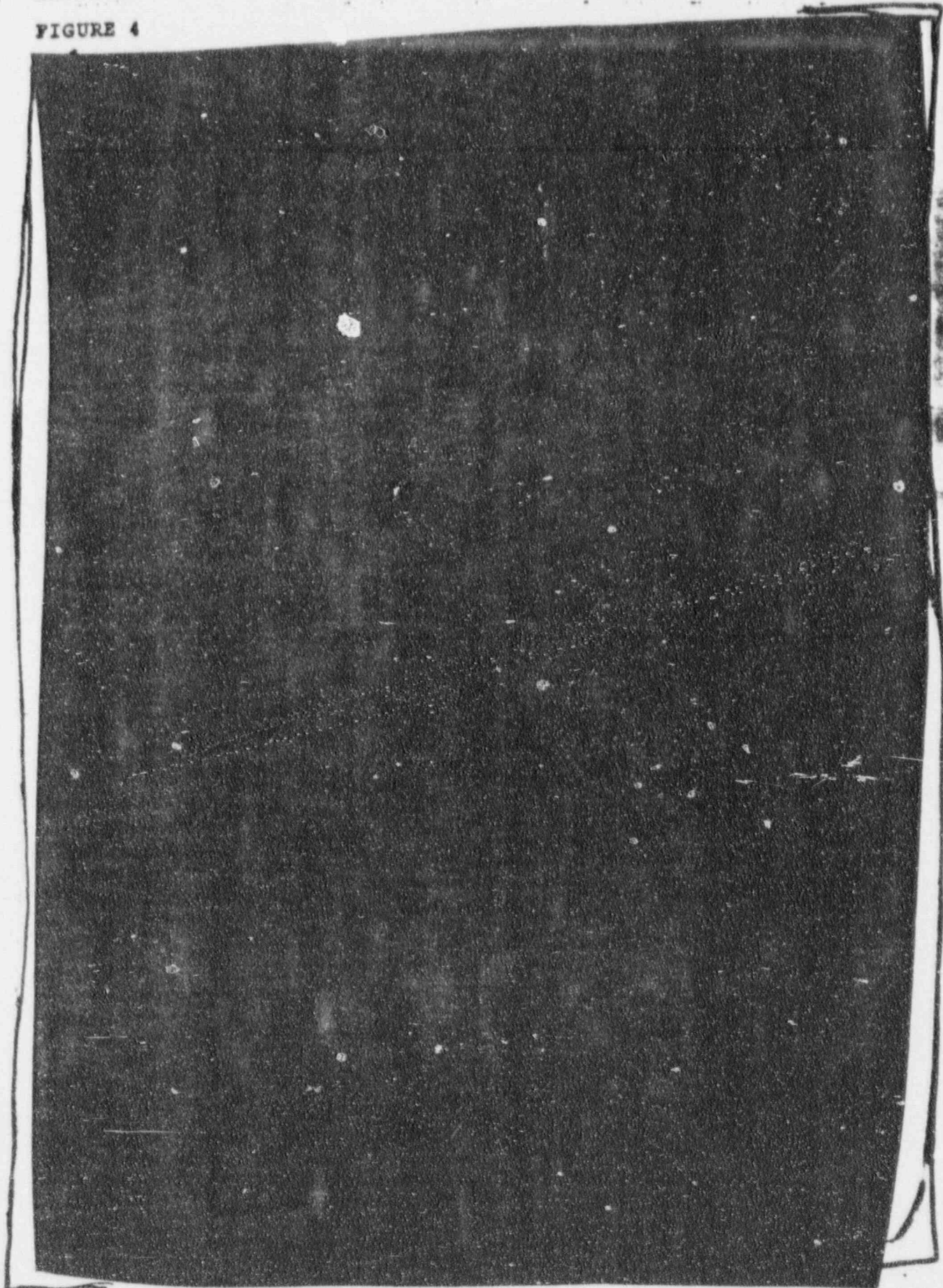
FIGURE 3



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FIGURE 4



SEQUOYAH FACILITY OPERATING PROCEDURE

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PROCESS PARAMETER SHEET

Sheet 1 of 1



* Revised

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REVIEWED AND APPROVED BY:

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Administration
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Date 10/26/88

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Date 10-26-88

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Safety Officer

m r Jett

Date 10-26-88

APPROVED BY:

General Manager,
Sequoyah Facility

Scott Knight

Date 10-27-88

This procedure is effective October 31, 1988

IMPLEMENTATION ACTION

The following implementation action is required:

Action	Level				
	0	1	2	3	4
Personnel					
Administrative	✓				
Health & Safety	✓				
Security	✓				
Laboratory	✓				
Operations		✓	W ₂ Area		
Maintenance	✓				
Engineering	✓				
Other					

Signature

J H Montoya
FORC Chairman

* Annual review completed October 27, 1988