Subject: FLUORINATION CLEAN-UP REACTOR OPERATION

TABLE OF CONTENTS

ADDENDA

III-2

8pp

1.0 INTRODUCTION

1.1 Purpose:

To establish the procedure for Fluorination Clean-Up Reactor (CUR) operation.

1.2 Background:

The clean-up reactor serves to consume most of the excess fluorine from Primary Fluorination by reacting the excess fluorine with UF_4. The clean-up reactor UF_6 outlet is routed to the CUR cold traps.

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 <u>are to be followed.</u>

*

> ==CAUTION==
>
> Obtain a full face respirator prior to pinpointing possible leaks in the tower area. UF_6 is highly soluble and readily absorbed into the body. Investigation of a possible leak may result in ingestion of uranium unless proper respiratory protection is used.

2.1 SCBA will be worn in the event of a UF_6 release; a full face respirator with filter canister or a supplied air respirator may be used in the event of ash or UF_4 release.

2.2 Refer to Operating Procedure G-160, Health and Safety Precautions and Requirements.

3.0 REFERENCES

3.1 MSDS, Uranium hexafluoride (UF_6)

3.2 MSDS, Hydrofluoric acid (HF)

3.3 MSDS, Fluorine (F_2)

3.4 Operating Procedure N-270-6, "Clean-Up Reactor of Cold Trap Operation"

* Revised

* 3.5 Operating Procedure N-270-2, "Primary Refrigeration Operation"

3.6 Operating Procedure G-160, "Health and Safety Precautions and Requirements"

3.7 P & ID 270-M-106 and 270-M-1302, "Secondary Fluorination"

3.8 Operating Procedure G-113, "Non-Routine Handling of Radioactive Materials".

4.0 PROCEDURE

[redacted]

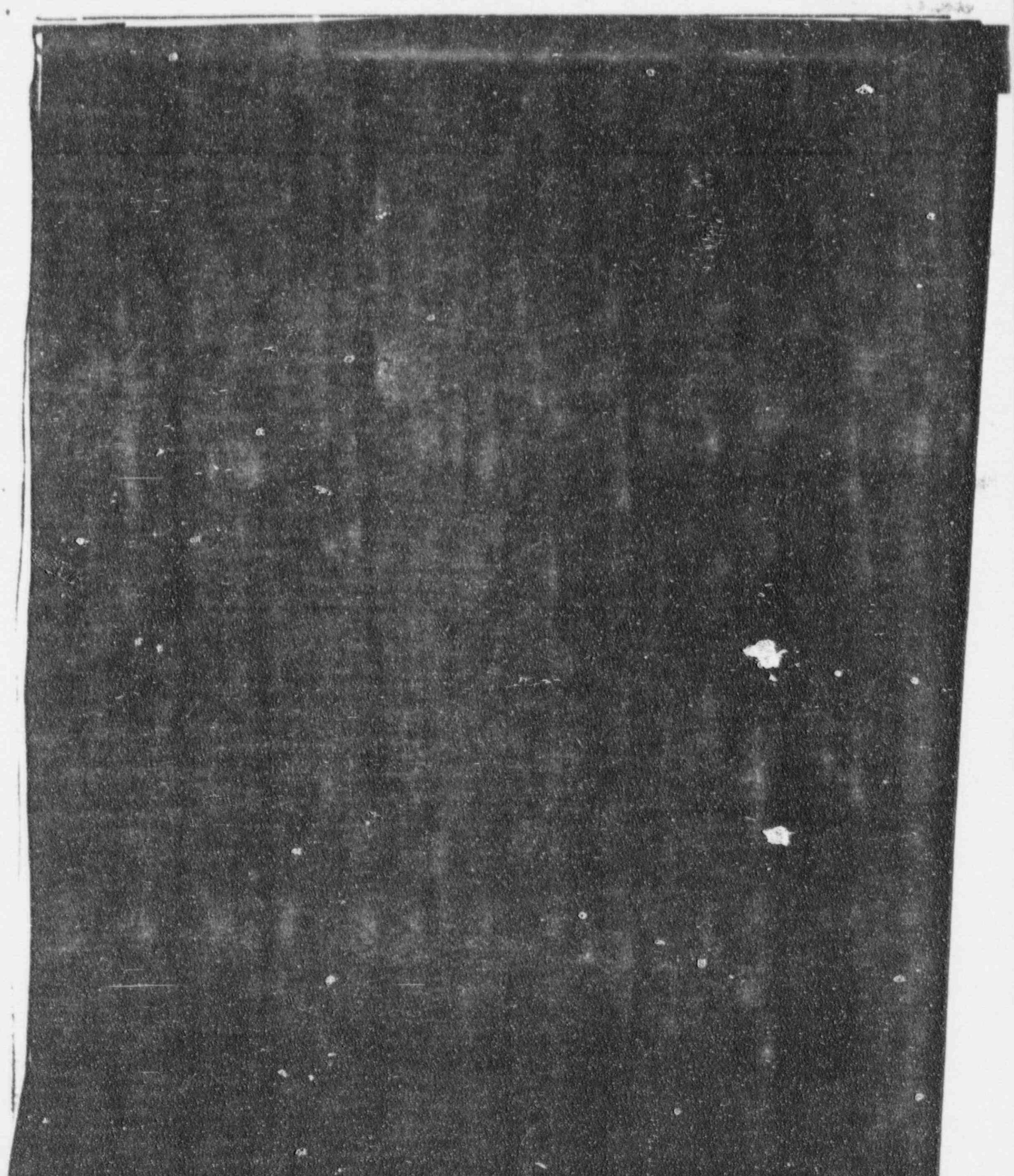
* Revised [redacted]

*

[redacted]

* Revised

[redacted]



PROCESS PARAMETER SHEET

Sheet 1 of 1

[redacted]

REVIEWED AND APPROVED BY:

Manager, Engineering SR Fryer

Manager, Laboratory

Manager, Maintenance Richard A. Parker

Manager, Operations J H Mestepey

Radiation Safety Officer/ Manager, Health & Safety Ken Simeroth for

PORC Chairman/ Manager, Procedures & Training 8-4-89 Date

APPROVED BY:

Vice President Administration Scott Knight 8-31-89 Date

This procedure is effective 9/11/89.

TRAINING/IMPLEMENTATION TABLE

The following implementation action is required:

Department	Action Level				
	0	1	2	3	4
Engineering	✓				
Laboratory	✓				
Maintenance	✓				
Operations	✓				
Health & Safety	✓				
Security	✓				
Administration	✓				
Other					

* Required review completed 8/31/89