

# REFERENCE ONLY

Procedure: KM-NP-36-19  
Revision : 0  
Page : 1 of 2  
Date : 8/8/75

Kerr-McGee Nuclear Corporation  
Cimarron Facility  
Plutonium Plant  
Operating Procedure

SUBJECT: Treatment of wet 24" x 24" Acid Filters.

## I. INTRODUCTION

The absolute filters that are used in ventilation systems that handle nitric acid fumes absorb and hold varying amounts of nitrates. These nitrates must be neutralized to prevent the possibility of combustion.

## II. SAFETY

- 1) Prior to bagging a filter into the processing box it is the foreman's responsibility to assure that the box is clean and that the box ventilation system is functioning properly.
- 2) NaOH is a hazardous chemical. Safety goggles and rubber gloves must be worn when handling this solution outside of the glove box.
- 3) Filters will be bagged in and out of the box using standard bagging procedures.

## III. NUCLEAR SAFETY

- 1) Only one filter at a time may be processed in box 36 A & B. This filter must contain no more than 200 grams Pu.
- 2) Box 36 A & B must be cleaned after processing each filter, including removal of any solution and solids, prior to introducing another filter for processing.

## IV. PROCEDURE

- 1) Check a filter out of the vault. (Foreman will specify the filter to be processed).
- 2) Move the filter to box 36 A & B. Assure that the box is empty and clean.
- 3) Bag the filter into the box using standard bag-in procedure. Enter the amount of Pu in the filter on the box status sheet.

- 4) Bag 4 liters of 6 molar NaOH into the box. (use 2 two-liter bottles)
- 5) Bag a squirt bottle into the box.
- 6) Lay the filter down on the box floor. Using the squirt bottle, spray the filter as evenly as possible with 2 liters of the 6 molar NaOH solution.
- 7) Turn the filter over and spray the other side with 2 liters of 6 molar NaOH.
- 8) Using a pair of tweezers, pull a small amount of filter media out of the filter in 5 random locations on each side of the filter. Put this material into a sample batch and submit to the lab to be checked for Ph using Phydron paper. The filter must be at least basic.
- 9) When lab result is obtained, the filter must be treated further if result is acid. (Foreman will give special instructions for this) If the result is basic the filter is ready to package for burial.
- 10) Allow the filter to set for one hour to drip dry.
- 11) Bag the filter out using normal bag-out procedure.
- 12) Put bagged filter in a box and seal per normal procedure.
- 13) Label the filter box and be sure label shows the lab result.
- 14) Clean out dry box and zero the box status sheet.
- 15) Box is now ready to process the next filter.

#### V. EMERGENCY SHUTDOWN

- 1) Bag filter out and return it to the vault.
- 2) Vacuum any solution to wall storage.

#### VI. EQUIPMENT LIST

- 1) Squirt bottle (1)
- 2) Absolute filter shipping cartons (as needed)
- 3) 2 liter bottle(as needed)

January 7, 1976

To Those Listed Below

The replies to IE Bulletin 75-07 from Utah International, Inc., License No. SUA-672; Kerr McGee Nuclear Corporation, License Nos. SUB-1010, SUB-986, and 35-12636-06, are attached for your information.

Glen D. Brown, Chief  
Fuel Facility and Material  
Safety Branch

ATTACHMENTS:

Letter W. J. Hale to IE:IV, received December 31, 1975.  
Letter W. J. Shelley to E. M. Howard, dated December 29, 1975.

DISTRIBUTION:

G. W. Roy, IE:HQ (1)  
R. D. Thornburg, IE:HQ (1)  
IE:HQ (4)  
L:HQ (4)  
DMIPC:HQ (1)  
DR Central Files (1)  
PDR:HQ  
NSIC

IE:IV

GDBrown:jan

1/7/76

~~2548079475~~ 1p

40-8006

Kerr-McGee Corporation  
ATTN: J. P. Hawlett  
Administrative Manager  
Kerr-McGee Center  
Oklahoma City, Oklahoma 73102

Gentlemen:

This refers to your letter of November 11, 1975 to Mr. Jack M. Bell  
concerning annual fee invoices for Licenses SUB-986 and 35-12636-05.

The Commission suspended the collection of annual fees in May 1974  
and is no longer assessing such charges.

Sincerely,  
J. Douglas Weiss

J. Douglas Weiss  
License Fee Management Branch  
Office of Administration

~~2508024516~~ LP

A #31