

OFFICE MEMORANDUM

TO : C. W. Christenson, H-7 Group Leader

DATE: March 14, 1974

FROM : LaMar J. Johnson, H-8 Group Leader *LJJ*

SUBJECT : AREA T EXCAVATION SOP

SYMBOL : H8-74-115

Attached are some comments and suggestions which
you may wish to consider in connection with the subject
project.

LJJ:mar
Attachment

1609
7A 21



OFFICE MEMORANDUM

TO : LaMar J. Johnson, H-8 Group Leader

DATE: March 14, 1974

FROM : Ray Garde, ^{RG}H-8

SUBJECT : S.O.P. FOR EXCAVATION OF OPEN PIT IN AREA T, TA-21

SYMBOL : H8-74-113

In order to avoid delays due to time required to analyze soil samples I recommend that Purtymun's drill rig be used to collect core samples for analyses before the excavation is begun. Unexpected "Hot Spots" may still be encountered during excavation, but we will at least have a general idea of what contamination (if any) the excavated material will contain.

I am assuming that ZIA will do the excavation so delays will not be as unpleasant as if an outside contractor were involved.

If the sketch attached to the S.O.P. is drawn to scale, the excavated material will result in a > 20 ft mound over pit No. 3. I think the material should be distributed over pits No. 1, 2, 3, and 4 and the east and west sides of the materials disposal area in such a way to preclude runoff entering the area and to eliminate one unsightly mound.

RG/jc

STANDARD OPERATING PROCEDURE
for
EXCAVATION OF AN OPEN PIT IN AREA T, TA-21

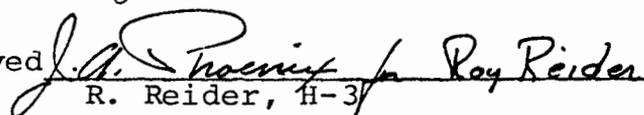
December 1973

Approved 

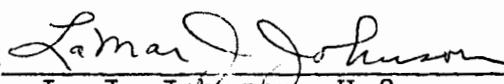
C. W. Christenson, H-7

Approved  2/21

RS J. E. Dummer, H-1

Approved 

R. Reider, H-3

Approved 

L. J. Johnson, H-8

Approved _____

W. J. Maraman, CMB-11

STANDARD OPERATING PROCEDURE
for
EXCAVATION OF OPEN PIT IN AREA T, TA-21

General

A large open pit, roughly 130 ft long x 32 ft wide x 20 ft deep will be excavated at the west end of Area T, TA-21. The pit is located between the old Pits Nos. 1 and 3 absorption beds which were used for disposal of radioactive wastes before the construction of Bldg TA-21-35. An overflow line from old Pit #1 to old Pit #3 traverses the area and will have to be removed. A sketch is attached.

The new pit will be used to contain vertical 20 ft sections of 30 in. diameter corrugated metal pipe (CMP). In a change in disposal operations at DP-21-257, in accordance with an ALOO directive of November 14, 1973, americium waste cement paste will be pumped into the 30" I.D. CMP rather than into the 8 ft diameter pits previously used.

Procedures

The following steps will be taken to implement this change in operations:

- (1) The area to be excavated will be outlined by stakes set by Eng-1.
- (2) The existing temporary fence must be moved west beyond the end of the proposed excavation.
- (3) An order will be written for excavation of the pit.

(4) Care must be taken in removal of the overflow pipe because it is contaminated with plutonium. The pipe is standard strength steel with screw joints; it will have to be sectioned by saw. Pipe that is removed will be carefully packaged in polyethylene. It may be placed for disposal into the nearest 8 ft diameter pit. Any contaminated soil will be placed in steel drums provided by Group H-7 and the filled, sealed drums will be hauled to Area A for disposal. Any soil, pipe or other waste material exceeding 10 nCi/g in transuranic activity as delineated in AECM 0511 will be packaged for retrievable storage.

(5) Monitoring of the excavation must be continuous and any contaminated soil found will be removed to Area A in steel drums as in (4) above.

(6) Uncontaminated excavated soil may be stockpiled to the north of the excavation over the old Pit #3.

Safety

All workmen involved in the excavation will wear full protective clothing and booties and must have a fitted full face mask available for use.

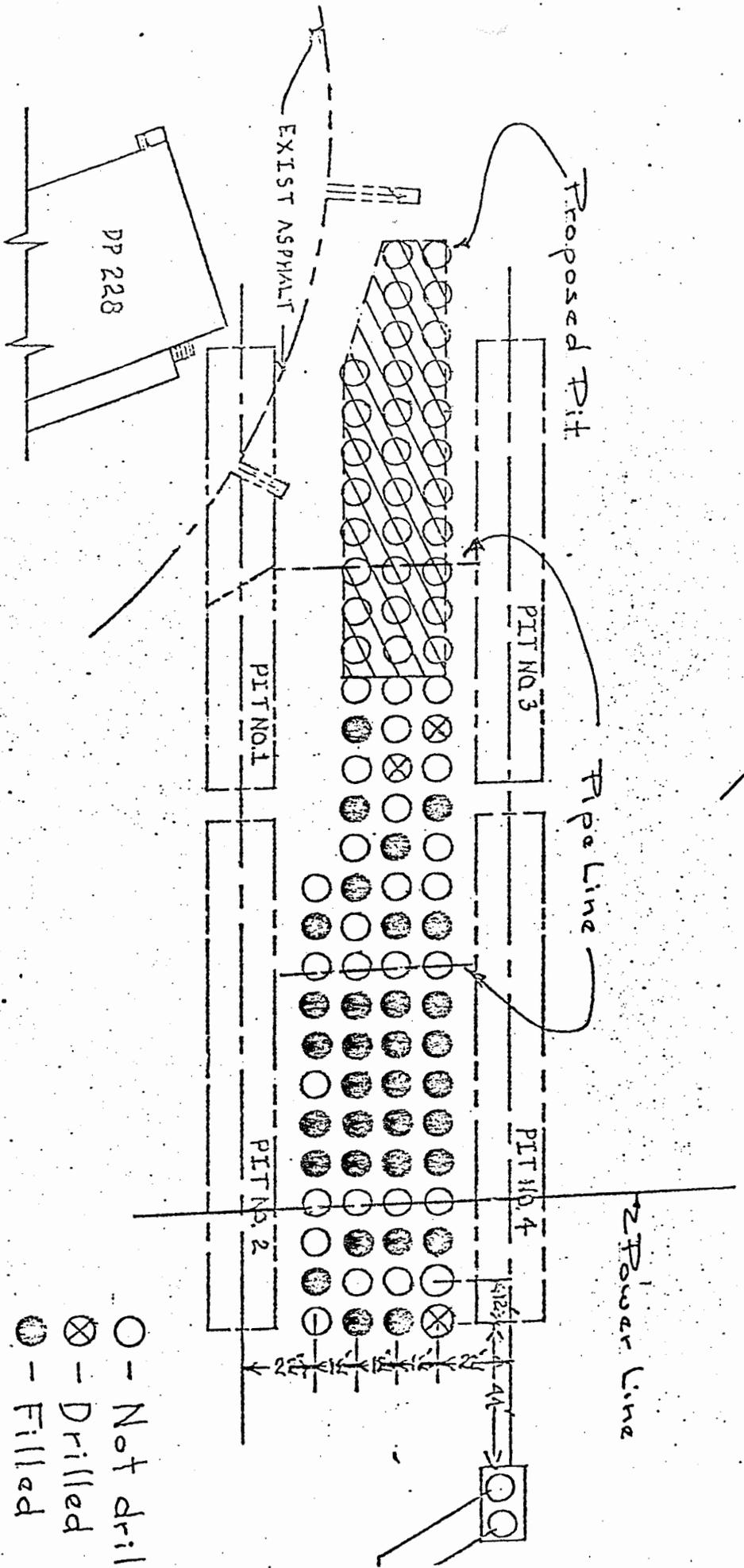
Nose swipes will be taken daily for all workmen involved in the excavation.

No tools or equipment used in the work may leave the area until they have been monitored and declared contamination-free (as defined by H-1) or have been packaged for removal to decontamination.

Anyone entering the area of excavation must be suited with protective clothing as deemed necessary by the H-1 health physics surveyor at the site.

H-1 shall determine the need for and extent of air sampling depending upon conditions during excavation.

H-3 shall determine the need for safety barriers around the excavated area.



- - Not drilled
- ⊗ - Drilled
- - Filled

MATERIALS D
 AREA
 (West of DP-21)
 DP-SITE AREA 2