

OFFICE MEMORANDUM

TO : Dean Meyer, Group Leader, H-1

DATE: August 20, 1969

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

SUBJECT: STATUS OF WASTE DISPOSAL TO PITS AT BUILDING DP-257

SYMBOL : H7-CWC-411

1543
General
TAD

Various wastes such as the neutralized americium, "strip," alkaline fluoride and plant sludge are being mixed with cement in a pug mill operation and the slurry is being pumped to deep holes on the site. This procedure was started on May 1, 1968. A plan showing the location of the holes and their identification numbers was sent to you recently. The holes are eight feet in diameter and of varying depth and often have several feet of four feet diameter pilot hole extensions at the bottom.

The status of the pits as of this date is as follows:

Pit No.	Status	Approx Depth ft	Volume Mortar Liters	Equiv. ^{239}Pu g	No. Spheres and g ^{239}Pu
3	Filled and capped	27	10,750	10	3 - 290
11	Receiving wash water	28	-	-	-
19	Filled and capped	65	80,280	241	3 - 245
27	Filled and capped	58	82,770	906	-
17	Filled and capped	50	87,240	1237	9 - 342
33	Filled	64	-	-	-
18	Receiving waste	59	-	-	-
26	Drilled - standby	15	-	-	-

The figure for equivalent ^{239}Pu is based on the gross alpha activity of the feed to the pug mill and includes activity due to ^{239}Pu , ^{238}Pu , ^{241}Am , ^{235}U and probably other alpha emitters.

The wastes contain some mixed fission products, mostly strontium and cesium; the total amount of beta-gamma activity in the four capped pits is approximately four curies.

The bathyspheres are usually placed three to a layer and are located at various depths in the pits.

C. W. Christenson
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LAE:CWC/trf

cc: J. Enders, H-1, CMR Bldg
H-7 files (2)



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