

File \_\_\_\_\_

Date 7/18/46

Subject 706-D Building, Tank  
Farm, and Settling Basin for

Copy 3

Week Ending 7/6/46

Classification Cancelled

INV.  
6

By C. Z. Hughes

~~Of~~ Changed To \_\_\_\_\_

To K. Z. Morgan

By Authority Of \_\_\_\_\_

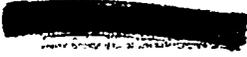
By N.H.S. Date AUG 24 1971

Before reading this report, sign and date below.

ms 7-28 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INV.  
64

1. K. Z. Morgan
2. J. E. Wirth
3. M. C. Leverett
4. W. A. Rodger
5. S. A. Reynolds
6. A. C. Vallado
7. R. E. Hayden
8. A. D. Warden
9. C. File
10. R. File



7/18/46

CLASSIFICATION CANCELLED  
Ted Davis 12/7/94  
ADD signature Date

To: K. Z. Morgan

From: C. Z. Hughes

In Re: 706-D Building, Tank Farm, and Settling  
Basin for Week Ending 7/6/46.

Single rereview of CCRP-declassified  
documents was authorized by DOE Office of  
Declassification memo of August 20, 1991

706-D Building:

The week 30 June to 6 July was the third week of decontami-  
nation in cell B. Efforts were made to reduce the radi-  
ation to a level low enough for necessary maintenance work  
to be done inside the cell. Readings were taken several  
times daily one foot inside and three feet inside the cell  
with cutie pie, window open. On 30 June the readings were:

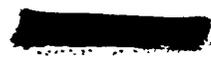
305 mr/hr	one foot inside cell
487 mr/hr	three feet inside cell

On 6 July the readings were:

130 mr/hr	one foot inside cell
220 mr/hr	three feet inside cell

The following table shows readings at different points  
in the cell for the first and last of the week:

This document contains information...  
[Redacted]



This document has been approved for release  
to the public by:

David R. Hamman 2/9/95  
Technical Information Officer Date  
ORNL Site

<u>Location in Cell</u>	<u>Reading on July 1</u>	<u>Reading on July 5</u>
B-19 Air Heater	5.0 r/hr	5.1 r/hr
B-19 Head Heater	5.0	3.3
Floor under B-19	14.0	12.5
B-12 tank (top)	0.9	0.4
B-12 tank (bottom)	1.2	0.7
B-17 tank (top)	3.7	2.1
B-17 tank (bottom)	2.9	1.4
North Sump	7.0	7.0
Central Sump	2.0	3.0

(Readings on July 1 were made with cutie pie, W.O., and 100 R probe; those on July 5 with cutie pie, W.O., and 20 r probe. All readings approximately 3" from objects.)

No work was done inside the cell during this period.

On 7/3/46 a 15 min. precipitron run was made directly over steam issuing from B-17 probe on 3rd level. The sample counted 3,330 beta and gamma c/m precipitron runs made elsewhere on the 3rd level showed that the air activity was localized around B-17 probe and was not general over the 3rd and 2nd levels.

On 7/5/46 three smears were taken of concentrated HNO<sub>3</sub> which was coming from cell II. The counts were 11, 123, 13, 302, 14, 563 and c/m. Washing began immediately on the area.

Exposure Reports:

One exposure report was received indicating evidence of exposure likely to have been greater than 100 mr for one day.

[REDACTED]

[REDACTED]

Only minor maintenance work was done in the building: repairing leaking steam and plugged vacuum pipes behind panel boards one and two.

Tank Farm:

No maintenance work was done in the tank farm. No surveys were made.

Settling Basin:

Readings for this period were as follows:

<u>Date</u>	<u>Inlet Walk</u>	<u>Outlet Walk</u>	<u>East Bank</u>	<u>West Bank</u>
7/1/46	5.8	3.3	4.1	3.5
7/3/46	4.9	2.3	5.3	5.2
7/5/46	5.7	3.3	4.1	3.6

All readings are in m/hr.

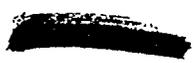
*C. Z. Hughes*  


---

 C. Z. Hughes

CZH:am

This document contains information affecting the national defense within the meaning of the regulations of the Espionage Laws, the transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.



*Deigo*

CLERK & LABORATORIES  
CENTRAL FILES NUMBER  
46-7-225

Date 7/28/46

Subject 706-D Building. Tank

Page 3

Farm and Settling Basin Report

For the Week Ending July 13, 1946

By D. H. Davis

59  
WNE

To K. Z. Morgan

Before reading this document, sign and date below.

K. Z. Morgan \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- 1. K. Z. Morgan
- 2. J. E. Wirth
- 3. M. C. Leverett
- 4. W. A. Rodger
- 5. S. A. Reynolds
- 6. A. C. Vallado
- 7. R. E. Hayden
- 8. A. D. Warden
- 9. C. F.
- 10. R. F.





Decontamination of cell II was completed on 7/9/46. At present time, approximately half of the lines that are to be replaced have been replaced.

Areas which were likely to become contaminated were smeared at intervals throughout this period. Any areas found to smear greater than 200 c/m on smear chamber counter were marked, operations were notified, and clean-up was started immediately.

At no time during this period has the air activity exceeded 10% of tolerance (tolerance based on 15,000 c/m, one half hour precipitation run). No air activity was expected, however, since no run was in progress, and no steaming was taking place in cell B.

Tank Farms

On 7/8/46 a complete survey of tank farm was made for the purpose of cutting grass. All areas except W-9 area were below 8 hour tolerance level. The area around W-9 valves was reading 1000 mr/hr. The grass in this area was cut under the supervision of an H. P. man. No worker received an exposure above tolerance (tolerance based upon 100 mr per day).

On 7/11/46 a survey was made around valves at W-9 tank to determine working time permissible for removing hot dirt from around these valves. This dirt became contaminated as the result of a spill on 6/15/46 (see weekly report for that date). The readings were as follows:

At edge of excavation (approx. 1 1/2 ft. from valves),			
3,800 mr/hr, CP, W.O.)			
1 ft. West of excavation	1000 mr/hr	C.P.	W.O.
2 " " " "	400 " "	"	"

On 7/12/46 maintenance men and tank farm operators removed contaminated dirt from around W-9 tank valves. Shielding

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

and valve rod were removed. This work was monitored constantly by H. P. men and no one received more than a tolerance dose (100 mr per day) except A. C. Vallado, #511, who received the following:

Pocket Chamber	>200 mr
Film Badge	1000 mr

Vallado worked in W-9 area several times the time recommended by the H. P. men on duty at this time, in spite of the fact that he was reminded by three different H. P. men that he was receiving a very high exposure. Vallado had already spent an undetermined amount of time around W-9 valve on 7/11/46 and received an exposure report for that period which read - Pocket Chamber 100 mr for 1 day - Film Badge 110 for 6 days.

More work is to be done in decontaminating around W-9.

Settling Basin:

Readings for this period were as follows:

<u>Date</u>	<u>Inlet Walk</u>	<u>Outlet Walk</u>	<u>East Bank</u>	<u>West Bank</u>
7/8 /46	6.4	3.5	4.5	4.7
7/10/46	6.7	3.8	5.8	5.6

All readings in mr/hr.

D. M. Davis  
D. M. Davis

DMD:om

This document contains information affecting the national defense of the United States within the meaning of the Espionage Act, Title 18, U.S.C., Sec. 793 and the transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

~~\_\_\_\_\_~~