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[redacted]

It is now desired:

1 - that the Navy Department be asked to assume the entire burden for the fabrication of the fifteen new weapons,

2 - that the Navy Department advise whether Centreline is the proper activity to build the breech blocks required under the original requirement,

3 - that the Naval Ordnance Plant, Centreline, be made the final inspection and assembly point,

[redacted]

DOE b(3)

5 - that sufficient funds be allocated to the Navy Department to complete this production program by September 1948 at the latest.

From the point of view of following up on the inspection and progress under the circumstances existing at Los Alamos, Sandia, and Detroit with respect to the limited "know how" available now, this activity would prefer that Naval Ordnance Depot, Centreline, be given as much detail production as the Bureau of Ordnance believes proper.

Sincerely yours,

R. S. Warner, Jr.
Z-Division

RSW:rah

cc: Capt. R. A. Larkin
Lt. Col. Wilhoyt
Col. G. Dorland (2)
Mr. H. W. Russ, Z-11
1-File

(s) N. E. Bradbury
N. E. Bradbury
Director, Los Alamos

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6-1
3.12.1

NAME	SALARY	ARR. IN DORMITORY	LEAVE DORMITORY	MOVED INTO QUARTERS	MARRIED OR SINGLE
					[redacted]
Agnew, H. M.	$230.	Unique Document # SAA200065500000	4/8	4/8	
Anderson, E.	305.	4/16			
Bailey, C. L.	260.	4/13			
Baker, C. H. P.	390.				
Baker, R. D.	250.				
Bethe, H. A.	850.	3/25	4/24	4/24	
Blair, J. M.	250.	4/21/			
Bloch, Felix	500.				
Bacher, R. F.	750.				
Bradner, Hugh	325.	4/15			
Brewer, M.	460.			4/11	
Bridge, H.	225.			4/21	
Brockmann, H. C.	460.			4/7	
Caldes, Wm.	180.	4/22			
Christy, R. F.	400.	4/3	4/7	4/7	
Clark, Al	460.	3/30	4/19	4/19	
Clark, W. F.	175.				
Compton, Eugene	460.			4/12	
Cook, Ruel R.	275.			4/1	
Coon, J. H.	330.				
Cornog, R.	400.	4/18			
Critchfield, C. L.	400.				
Davis, R.R.	240.	4/4	4/7	4/24	
Davis, Roland	140.				
Dennes, W. R.	500.	4/16			
DeWire, John W.	280.	4/1	4/8	4/8	
Diven, Ben C.	240.	3/18			
Dowson, Sara	200.	4/14			
Duffield, R.	300.	4/14			
Ehrlich, Richard	240.				
~~Xxxx~~Farr, David	290.	4/2			
Feynman, Richard	330.	4/5			
Fowler, J. L.	280.	3/28			
Frankel, S. P.	305.	4/4	4/47	4/7	
Fredricks, Eleanor	150.	4/18			
Frisch, E. H.	250.			4/22	
Froman, Derol K.	500.	4/13			
Garner, C. S.	380.			4/28	
Gary, G. Pauline	180.				
Gordon, Carrol	460.	3/30	4/21	4/21	
Graves, Alvin	380.				
Greene, DeMotte	200.	4/19			
Greene, Priscilla	250.	4/17			
Greisen, Kenneth	305.			4/15	
Grubman, Anton	290.				
Hall, Stanley	160.	3/31			
Hane Wilbur	280.				
Hanson, Alfred O.	305				
Hanson, J. H.	460.				
Hempelman, Dr. Louis	355.	4/19			
Howell, Leigh	460.				
Hush, James M.	250.	4/19	4/22	4/22	

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DOE/OFFICE OF DECLASSIFICATION
DATE: 01/16/96
~~W. H. ROLLEY~~, A.D.C.

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[redacted]

NAME	SALARY	ARR. IN DORMITORY	LEAVE DORMITORY	MOVED INTO QUARTERS	MARRIED OR SINGLE
Jensen, Kenneth S.	$225.				[redacted]
Jorgenson, Theo.	400.	4/6	4/8		
Kahn, Milton	240.			4/16	
Kamm, Robert L.	280.			4/25	
Kennedy, J. W.	415.	4/12	4/27	4/27	
King, L. D. P.	360.				
Klema, Ernest	200.	3/31			
Konopinski, E. J.	400.	4/1			
Koontz, P. G.	400.				
Krohn, Robert	220.	4/22			
Lavatelli, Leo S.	250.	4/2	4/12		
Lawlor, Glenn	400.				
Linenberger, G. A.	240.				
Lipkin, David	380.				
Mack, J. E.	475.				
Mastick, D. F.	220.	3/30			
Mitchell, Dana P.	600.	4/15			
Muncy, J. A. D.		4/15	4/22	4/22	
McDaniel, Boyce	280.				
McKibben, J. L.	400.			4/18	
McMillan, E. M.	500.	3/29	4/3	4/29	
Neddermeyer, Seth	400.	4/16			
Nelson, Eldred	305.	4/15			
Nicodemus, D.	240.				
Nobles, R. A.	175.	4/6	4/8		
Nolan, James	355.	4/12	4/19	4/19	
Nuckolls, R. G.	310.	4/14			
Oathout, J. E.	298.			4/22	
Olum, Paul	250.			4/24	
Perlman, M. L.	350.				
Perry, Rolland	250.	xxxxx		4/23	
Prestwood, Rene J.	220.	4/22			
Rasmussen, S. A.	450.	3/30	4/19	4/19	
Richards, R. T.	305.	4/3			
Richman, Chaim	280.				
Roberg, Jane	305.	4/6			
Ryan, John G.				4/7	
Schafer, Wm. D.	180.			4/8	
Schelberg, Arthur	200.	4/7			
Schoppy, Margaret	175.	4/15			
Schreiber, Raemer E.	360.				
Schultz, Gus H.	643.			4/28	
Serber, Robert8	500.	3/29	4/25	4/25	
Smith, C. S.	675.	4/15			
Snyder, Thoma M.	300.	3/31			
Stevenson, J. H.	425.				
Stokes, F. E.	250.			4/24	
Streib, J. S.	375.				
Sutton, Roger B.	280.	3/31	4/12		
Taschek, R. F.	325.				
Teller, Edward	660.	4/4	5/5		
Thompson, R. W.	200.				
Toft, Clement	185.50	4/26			
Turner, Clarence M.	280.				
Wahl, Arthur C.	305.	4/3			
Waldman, Bernard	400.	4/5	4/8		

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[redacted] UNCLASSIFIED [redacted]

[redacted] UNCLASSIFIED

[redacted]

NAME	SALARY	ARR. IN DORMITORY	LEAVE DORMITORY	MOVED INTO [illegible]	MARRIED SINGLE
Wallace, Dixie	$150.	4/16			[redacted]
Weissman, S. I.	380.				
Wiegand, C. L.	350.				
Wieneke, John	250.				
Williams, J. H.	480.	1/8/22 2/4/15	1/4 2/5/2		
Williams, R. W.	225.	3/31			
Wilson, R. R.	450.	3/22	4/5	4/5	
Woodward, Em. W.	280.			4/27	
Woods, Leona	280.				

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1 copy to Colonel Harman
2 copies filed

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THE BRITISH SUPPLY COUNCIL IN NORTH AMERICA

TELEPHONE
HANOVER 2-2460

P. O. BOX 51
WALL STREET STATION
NEW YORK 5, N. Y.

~~FEB 23 1944~~

[redacted]

15th February, 1944.

Dr. J. R. Oppenheimer,
c/o Dr. W. L. Webster,
641 Grafton Annex,
WASHINGTON, D.C.

FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
OCT 29, 1979

CLASSIFICATION CANCELLED
PER DOC REVIEW JAN. 1973

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DOE/OFFICE OF DECLASSIFICATION
M. Robb, A.D.C. DATE: 01596
1-30-96

Dear Oppenheimer,

I have been trying to reconstruct a refinement in the use of the optical analogy which Frisch and I discussed about a year ago. It seems to me now that this method is easier than I expected and may not have to rely on excessively accurate measurements. I would like, therefore, to submit this for the consideration of your group and for convenience I enclose a copy of this letter for Frisch.

Consider the model to have scattering coefficient β and absorption coefficient of $\beta-\alpha$ in our usual notation. Then the quantity which can be deduced from optical experiments is the probability of a light quantum that starts from a source distributed uniformly over the body being absorbed before leaving the body.

If we denote by D the operator which defines our usual integral equation so that if f represents one generation of particles, then Df represents the next generation, then the probability defined above may be written as

$$F = \left(1 - \frac{\alpha}{\beta}\right) \sum_{n=0}^{\infty} \int (D^{n+1}1)\, dv \cdot \beta^n$$

This can in principle be measured as a function of β if models can be made with varying scatter and absorption coefficients. In principle it is therefore possible to analyse this function into a Taylor series and each term will give a better approximation to the correct eigenvalue than the preceding. A better approximation is probably obtained by taking the ratio of successive terms in the expansion which again approximates to the correct eigenvalue. Probably the best approximation which does not make excessive demands on the accuracy of the experiments consists in considering the series

$$\phi(\beta) = \frac{F}{1-\alpha/\beta}$$

and form the expression $\phi(\beta)-\phi(0)$ which is obtained by subtracting the value measured for a purely absorbing sphere with the same mean free path. In the remainder it is probably very nearly true that the ratio between successive terms is equal to the proper eigenvalue and assuming this one can sum the series

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