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DATE 9/[illegible]/48 INITIALS [illegible]

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MOUND LABORATORY CO.
MAIL TRANSMITTAL NUMBER
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MOUND LSDR PROJECT
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Mr. K. A. Dunbar
Area Manager, Dayton Area
United States Atomic Energy Commission
P. O. Box 66
Miamisburg, Ohio

Dear Mr. Dunbar:

Subject: FUTURE WORK LOAD

In deciding how many men we will need for future operations and giving a good answer to you and to Mr. Sandidge in the meeting of next Thursday, it will be very necessary that Dr. Burbage and I know exactly what will be expected of us, particularly before the end of December 1948.

It has been called to my attention that you have made known informally to Dr. Burbage that you will require of us about one-third more than our normal output for the next few months, so we can have a stockpile to carry us over the period of time when we will finish work at Unit 4 and be able to carry on work to the fullest extent at Mound Laboratory.

We know that it is desired we should move out of the Runnymede Playhouse by Christmas. In order to do this, it is necessary we be handed the "T" Building in full by October 1, but according to your own testimony, this is exceedingly unlikely. In consequence, it will be impossible to move from Runnymede unless we have so stockpiled.

However, in order to turn out 33% more material than we are now turning out, it will be necessary that every man at Unit 5 and at Unit 4 from the Production Staff be available for Production. Therefore, we desire a clear statement from you as to whether you will expect us to turn out this 33% extra. If we have such an authorization, then the question arises, shall we cease constructing

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equipment at Unit 5, in order that we may carry on production at Unit 4, or shall we take on extra people in order that we may carry the heavier load at Unit 4, while still continuing construction at Unit 5. I think you can see we have our problems here in deciding how many people will be needed to properly run this plant. It is a question of timing, so your clear definition of the matter will be greatly appreciated.

The remarks made above apply particularly to the five-day work week. We are hoping to revert to the five-day work week for everyone at the earliest possible moment. It will be possible to carry on as already described in the Production Division if we keep everybody on the six-day week, so you can readily see we have tied up here several problems - the matter of increased personnel, the matter of overtime, and the matter of an extra heavy load in the next few months.

Very truly yours,

M. M. Haring,
Laboratory Director.

MMH:jdb

Distribution:

Copies 1 and 2 - Mr. H. A. Dunbar
Copy 3 - Dr. J. J. Burbage
" 4 - Dr. M. M. Haring
" 5 - Central File

TABLE II

ESTIMATES FOR RADIUM PRODUCTION

SCHEDULE		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CYCLE TIME (MO)	[illegible]	[illegible]	NO. OF CAVES + 2 SPARE
MO. IN PILE PER CYCLE	MO. out pile [illegible]	GM [illegible]	[illegible]	[illegible]	GMS OF 226	[illegible]		GMS OF 226	± 5 GMS/SLUG	@ 3 SLUGS/[illegible]
1	3	0.39	385	1.95	[illegible]	[illegible]	4	1040	[illegible]	[illegible] + 2
2	3	0.69	218	3.45	10.1	21	[illegible]	1030	10	4 + 2
3	3	0.94	160	4.7	[illegible]	29	[illegible]	960	[illegible]	3 + 2
4	3	1.12	134	[illegible]	35.5	[illegible]	[illegible]	932	6	2 + 2
5	3	1.25	120	[illegible]	51.5	42	[illegible]	880	[illegible]	2 + 2
6	3	1.36	110	[illegible]	68.0	48		[illegible]	5	[illegible] + 2
7	3	1.45	103	7.2	86.0	[illegible]	10	1030	[illegible]	2 + 2
8	3	1.52	99	7.6	105.0	[illegible]	[illegible]	1050	[illegible]	2 + 2
1	2	0.39	385	1.95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6 + 2
2	2	0.69	218	3.45	10.1	21	4	[illegible]	10	4 + 2
3	2	0.94	160	4.7	21.5	29	5	[illegible]	[illegible]	3 + 2
4	2	1.12	134	[illegible]	35.5	36	6	804	6	2 + 2
5	2	1.25	120	[illegible]	51.5	42	7	840	6	[illegible] + 2
6	2	1.36	110	[illegible]	68.0	48	[illegible]	[illegible]	5	2 + 2
7	2	1.45	103	7.2	86.0	[illegible]	[illegible]	[illegible]	5	2 + 2
8	2	1.52	99	[illegible]	105.0	[illegible]	10	[illegible]	5	2 + 2
1	1	0.39	385	1.95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6 + 2
2	1	0.39	218	3.45	10.1	21	3	654	10	4 + 2
3	1	0.94	160	4.7	21.5	29	4	640	[illegible]	3 + 2
4	1	1.12	134	[illegible]	35.5	36	5	670	6	2 + 2
5	1	1.25	120	[illegible]	51.5	42	[illegible]	[illegible]	[illegible]	[illegible] + 2
6	1	1.36	110	6.8	68.0	48	7	770	5	2 + 2
7	1	1.45	103	7.2	86.0	[illegible]	[illegible]	[illegible]	5	2 + 2
8	1	1.52	99	7.6	105.0	[illegible]	9	891	5	2 + 2

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TABLE #1

BUILDING COST ESTIMATE

FACILITY	CU. FT.	NO.	$/CU. FT.	TOTAL
"CAVE" BUILDING	60,000	4	2.83	$679,200
"FAB" BUILDING	81,000	5	2.83	1,146,150
"COLD" SERVICE BLDG.	193,000	1	2.89	560,000
"HOT" SERVICE BLDG.	120,000	1	2.23	267,600
CAFETERIA	128,000	1	2.20	281,600
ISOLATION BLDG	125,000	1	3.14	392,500
			TOTAL	$3,327,050
			MOD. TO EXISTING BLDGS	600,000
			TOTAL	3,927,050
			PLUS 10% CONT.	392,750
			TOTAL BUILDING	$4,319,800

PROCESS EQUIPMENT COST ESTIMATE

FACILITY	NO.	EQ. COST/BLDG	TOTAL
"CAVE" BUILDING	4	$181,500	$726,000
"FAB" BUILDING	5	131,100	655,500
"COLD" SERVICE BLDG	1	399,400	399,400
"HOT" SERVICE BLDG	1	198,000	198,000
CAFETERIA	1	60,000	60,000
ISOLATION BLDG	1	180,000	180,000
		TOTAL -	$2,218,900
		MOD. TO EXISTING EQ.	120,000
		TOTAL -	$2,338,900
		PLUS 10% CONT.	233,800
		TOTAL EQUIPMENT	$2,572,700

GRAND TOTAL - $6,892,500

[redacted]