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Explosives Department
Wilmington 98, Delaware

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MINUTES OF TECHNICAL DIVISION STEERING COMMITTEE MEETING
JULY 14, 1953, SAVANNAH RIVER LABORATORY

Committee Members Present

R. J. Christl
J. E. Cole
L. C. Evans
L. Squires
V. R. Thayer
M. H. Wahl
C. W. J. Wende
J. C. Woodhouse
H. Worthington

Others Present During Parts
of the Meeting

L. M. Arnett
G. B. Carlton
G. Dessauer
R. M. Girdler
R. R. Hood
R. I. Martens
J. O. Morrison
J. N. Wilson

Reviewing
Official
T. R. Coughenour
R. Coughenour
9/26/53

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APPROVALS

The following Studies were approved:

Study No.	Title	Man Months	From	To
8507	Heat Transfer and Water Quality	16	7/1/53	9/30/53
8508	Hydraulics of Present Fuel Elements	1	"	"
8509	New Fuel Elements - Hydraulic Evaluation	12	"	"
8510*	Purex Design Testing	18	6/1/53	8/31/53
8511*	Purex Extraction - Operation Studies	27	"	"
8512*	Separations Process Chemistry	7	"	"
8513*	Separations Mechanical Development	9	"	"

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MASTER

R. Coughenour
C. J. Benish
9-26-53
9/14/89

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Study No.	Title	Man Months	From	To
8514	Instrumentation - Prototype Programs	12.5	7/1/53	9/30/53
3515	Instrument Development - General	32	"	"
8517*	Purex Process Hazards	7	6/1/53	8/31/53
8521**	Hydriside Development	4	7/1/53	7/31/53

* Tentatively approved in June

** New Study

INFORMATION AND AGREEMENTS REACHED

1. Security.

It was recommended that supervision become familiar with the contents of Classification Guide (DPWZ-173-2) and SROO Security Regulations.

Correspondence and operations dealing with enriched loading should be reviewed and reclassified if necessary, according to L. Squires' letter, DPW-53-1015, of July 10, 1953.

The Laboratory will set up a procedure for clearing the CMX area when classified work is in progress.

2. Safety.

The Hazards Control group is taking over from HI in TNX.

The Laboratory will look for problems associated with excessive heat in the metallurgy section and will note the experience with similar conditions in Building 313.

3. Building 777.

The Standard Pile is essentially completed. It is expected that dummy runs can be started during the week of July 20. Difficulty has been experienced with the edge cladding on SP fuel elements received to date. J. C. Woodhouse will follow up on obtaining proper fuel.

According to present schedules, the PDP will be ready for dummy runs the first week in August and moderator will be charged beginning about August 18. PDP start-up procedures will be reviewed with AED management.

4. CMX.

J. C. Woodhouse will determine when specimens are due from Aeroprojects so that the CMX group can schedule necessary tests.

The Laboratory will review the present methods of charging utilities costs to CMX and TNX.

5. Hydrisides.

The Laboratory will give immediate attention to equipment required for hydriside process development and will present a program at the next Steering Committee meeting.

6. Separations.

The Laboratory will obtain three Mini mixer-settlers as soon as possible and will give further consideration to the need for a one-slug dissolver and to methods of handling solution from this dissolver.

A Laboratory study group will work with V. R. Thayer to determine the course of the separations development program using potential production bottlenecks as a basis.

R. J. Christl will make necessary arrangements for dissolver studies to begin as soon as flat plates become available.

7. The next Steering Committee meeting will be in Wilmington on August 11.

8. Attached for information are:

- (a) Financial Status - Appendix A
- (b) Technical Division Studies - Status - Appendix B

TECHNICAL DIVISION

L. C. Evans

LCE:hw
Attachs.

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APPENDIX AFINANCIAL STATUS

Technical Division expenditures totalled \$9,569,000 for the entire FY-1953. This represents an underrun of 3.4% (\$287,000) from the Financial Plan figure of \$9,856,000. June credits to the NYX account totalled about \$720,000.00.

The amount of funds available for process development in FY-1954 is not completely clarified and hence will be reported later.

TECHNICAL DIVISION STUDIES - STATUS

Appendix B

Study No.	Title	Present Authorization			Man Mo. used to 6/30	Total Man Mo. used to 6/30	Program	Budget
		Man Mo.	From	To				
8501	Non-destructive Testing - Present Components	8	5/1/53	7/31/53	2.85	19.5	300	2802.1
8502	300 Area Process Development- Present Components	10	5/1/53	7/31/53	9.6	35.35	300	2802.1
8503	Strip Fuel Fabrication	27	5/1/53	7/31/53	10.25	16.25	300	2802.2
8504	Protective Coatings for Flat Fuel Elements	22	5/1/53	7/31/53	8.9	14.1	300	2802.2
8505	Corrosion	10	5/1/53	7/31/53	4.4	14.4	60% 400 40% 300	2950 2910.3
8506	100 Area Process Development - General	28	5/1/53	7/31/53	7.1	22.2	75% 100 25% 100	2803 2910.1
8507	Heat Transfer and Water Quality	16	7/1/53	9/30/53	0	46.3	75% 100 25% 100	2803 2910.1
8508	Hydraulics of Present Fuel Elements	1	7/1/53	9/30/53	0	14.2	100	2803
8509	New Fuel Elements - Hydraulic Evaluation	12	7/1/53	9/30/53	0	6.5	50% 100 50% 100	2803 2910.1
8510	Purex Design Testing	18	6/1/53	8/31/53	5.5	43.3	200	2804
8511	Purex Extraction - Operation Studies	27	6/1/53	8/31/53	5.8	27.0	200	2804
8512	Separations Process Chemistry	7	6/1/53	8/31/53	2.25	9.35	200	2804
8513	Separations Mechanical Development	9	6/1/53	8/31/53	3.15	19.5	200	2804
8514	Instrumentation - Prototype Programs	12.5	7/1/53	9/30/53	0	25.05	60% 100 20% 100 20% 200	2803 2910.1 2804
8515	Instrument Development - General	32	7/1/53	9/30/53	0	33.3	30% 100 20% 100 30% 200 10% 300 10% 400	2803 2910.1 2804 2802.1 2950

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Study No.	Title	Man Mo.	Present Authorization		Man Mo. used to 6/30	Total Man Mo. used to 6/30	Program	Budget
			From	To				
8516	Non-destructive Testing - New Fuel Elements	13	5/1/53	7/31/53	6.95	6.95	300	2802.2
8517	Purex Process Hazards	7	6/1/53	8/31/53	2.75	14.3	200	2804
8518	Theoretical Physics	38	5/1/53	7/31/53	18.95	27.95	75% 100	2803
							25% 100	2910.1
8519	Experiment Pile Physics	54	5/1/53	7/31/53	27.05	45.8	75% 100	2803
							25% 100	2910.1
8520	100 Area Mechanical Develop- ment	22	5/1/53	7/31/53	8.05	9.8	75% 100	2803
							25% 100	2910.1
8521	Development	4	7/1/53	7/31/53	0	0	Weapons	3799

July 24, 1953