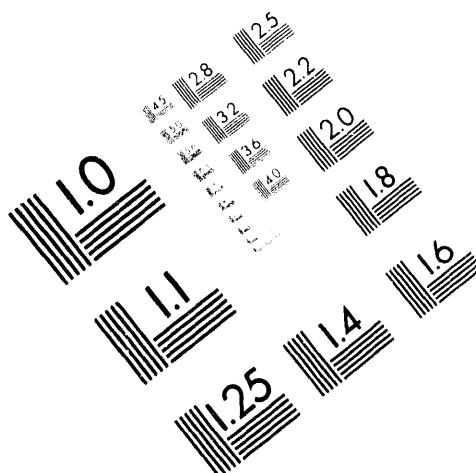
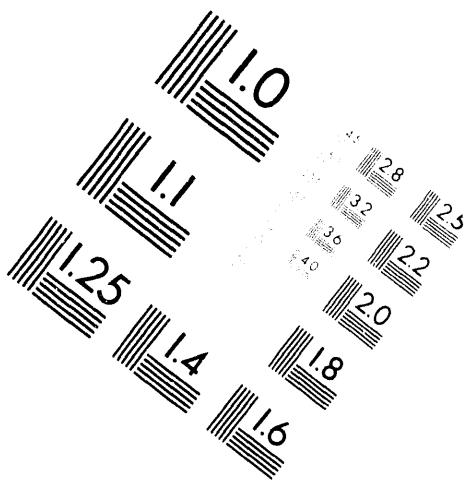




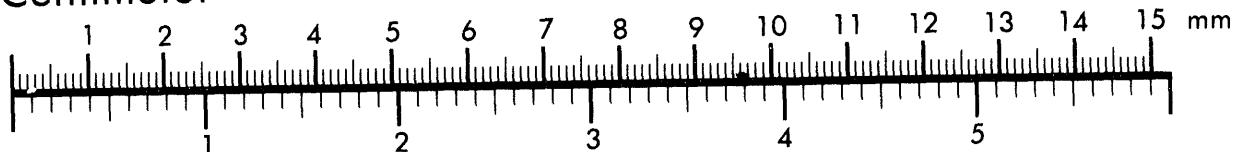
**AIIM**

**Association for Information and Image Management**

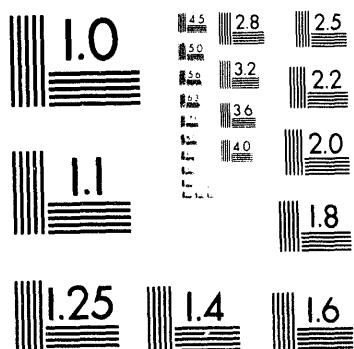
1100 Wayne Avenue, Suite 1100  
Silver Spring, Maryland 20910  
301/587-8202



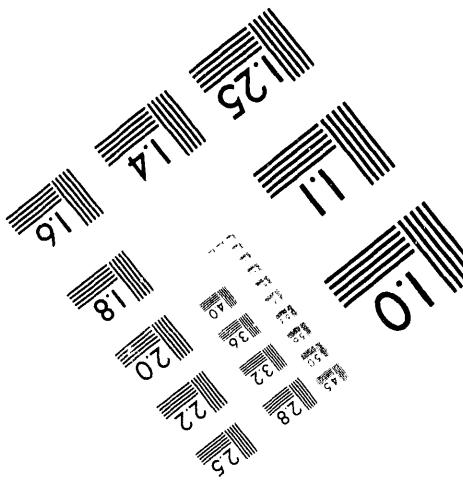
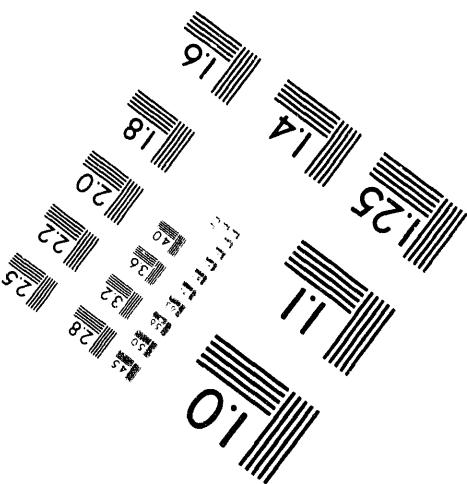
**Centimeter**



**Inches**



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1 of 1

E. I. DU PONT DE NEMOURS AND COMPANY

Explosives Department  
 Atomic Energy Division  
 Wilmington, Delaware

W FILE

SR/H-287

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MINUTES OF TECHNICAL DIVISION STEERING COMMITTEE MEETING  
JULY 12, 1955 - SAVANNAH RIVER LABORATORY

Committee Members Present

D. F. Babcock  
 J. W. Croach  
 Gerhard Dessauer  
 L. C. Evans

J. W. Morris  
 M. H. Wahl  
 C. W. J. Wende  
 Hood Worthington

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APPROVALS

Date 2/4/89

The following Studies were approved for the programs outlined in the appendixes:

Study Nc.	Title	Man Months	From	To
85C1	Non-destructive Testing	0	7/1/55	9/30/55
85C2	300 Area Process Development- Present Components	6	7/1/55	9/30/55
85C3	New Fuel Element Fabrication	38	7/1/55	9/30/55
85C4	Protective Coatings for New Fuel Elements	39	7/1/55	9/30/55
85C5	Corrosion	13	7/1/55	9/30/55
85C6	Instrument Development - 300 Area	27	7/1/55	9/30/55
8514	Instrument Development - 200 Area	42	7/1/55	9/30/55
8515	Instrument Development - 100 Area	15	7/1/55	9/30/55
8524	New LM Elements	18	7/1/55	9/30/55

INFORMATION AND AGREEMENTS REACHED

1. Safety

The Laboratory's minor injury frequency was 0.31 for June, approximately the same as for May. An analysis indicates that a major factor in June minor injuries was failures to follow established procedures. This point is being emphasized.

More rigorous procedures are being developed to aid in assuring that exposures to radioactivity are at a minimum.

2. The Laboratory had three security violations in June, a decrease from four in May. The AFC recently completed their annual security survey of the Laboratory facilities and found everything in good order.

3. The work capacity of the high level caves is exceeded by the amount of work requested. The Laboratory is taking a number of immediate steps to increase the efficiency of cave work, and a survey is being made to establish if and what additional facilities will be needed in the future.

4. The Laboratory will participate in work directed toward the development of hollow slug fuel elements. The responsibilities and the extent of participation in this work are yet to be resolved.

5. The Laboratory instrument development group is making arrangements for suitable vendors to assist in the development and mechanization of various instruments. This presents patent problems both with respect to divulging information to these vendors and with respect to the type of patent agreements acceptable to these vendors. L. C. Evans will work with the Laboratory to establish a simple procedure for coping with these patent considerations.

6. Several of the ingots of slightly enriched uranium performed poorly during rolling. The Laboratory has carefully examined the plates produced from these ingots and has found no evidence that the plates are unsuitable for irradiation.

7. Tentatively, the next Steering Committee Meeting will be at the Laboratory on August 9.

8. Attached for information are:

Appendix A - Financial Status

Appendix B - File Materials Program

Appendix C - Instrument Development Program

Appendix D - Technical Division Study Status

TECHNICAL DIVISION

  
L. C. Evans

LCE:EV  
Attach

APPENDIX A

FINANCIAL STATUS

Technical Division expenditures for FY-1955 through May were about \$150,000, or 25% under the Financial Plan. Although June costs will be inflated by rather heavy year-end accruals, we still should finish FY-1955 at least \$100,000 under the Financial Plan.

Expenditures for FY-1955 will total about \$8,400,000. Our Financial Plan request for FY-1956 will total about \$9,400,000, which is equivalent to about \$785,000 per month. It currently appears that this level will be adequate for our needs. Expenditures for each of several recent months approached this level, but in each case expenditures were inflated by charges for building the fluid pressure bonding facility.

**DISCLAIMER**

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

APPENDIX BSAVANNAH RIVER LABORATORY  
PILE MATERIALS PROGRAM  
JULY 1 TO SEPTEMBER 30, 1955

The detailed program for the next three months is described in document DPST-55-320. The goals and the distribution of efforts are as follows:

<u>Program</u>	<u>April 1 - June 30</u>	<u>July 1 - Sept. 30</u>	<u>Work to be Completed</u>
U Slugs	3%	5%	<ul style="list-style-type: none"><li>-TA's for Irradiation of <math>\alpha</math>-Rolled Slugs.</li><li>-Special <math>\beta</math>-Transformed Slugs.</li><li>-Examination of Pimpled Slugs.</li></ul>
U Plates	44%	55%	<ul style="list-style-type: none"><li>-Begin Irradiation at SRP.</li><li>-Post-Irradiation Examination of MTR Plates - to be 50% complete at the end of the period.</li><li>-Installation of Non-Bond and Fluoroscope Tests.</li></ul>
U Tubes	5%	17%	<ul style="list-style-type: none"><li>-Begin Irradiation at MTR.</li><li>-Procurement of Al.</li><li>-Nickel Plating.</li><li>-Fluid-Pressure Bond 300 Feet of Tube</li></ul>
U-Al Slugs	4%	2%	-----
U-Al Tubes	31%	13%	<ul style="list-style-type: none"><li>-Begin Irradiation at SRP.</li><li>-Experimental Tubes.</li><li>-64 SE Tubes.</li><li>-30 SRP Tubes.</li></ul>
Thorium	13%	7%	<ul style="list-style-type: none"><li>-Begin Irradiation of Mark IV Slugs at SRP.</li><li>-Corrosion of Stainless Steel by Thorex Solutions.</li></ul>
Oxide Elements	-	1%	-----
	100%	100%	

APPENDIX C
 SAVANNAH RIVER LABORATORY  
 INSTRUMENT DEVELOPMENT PROGRAM  
JULY 1 TO SEPTEMBER 30, 1955

<u>Study Code</u>	<u>Name</u>	<u>Estimated Man Months</u>
8508	Instrument Development - 300 Area	27
	Job #10-7 Porthole Extrusion Tester 18-1 Flat Plate Non-Bond Tester 18-6 Transformation by Resonance 18-9 LMF Slug Non-Bond Tester 18-10 High Speed Non-Bond Tester 24 NDT Evaluation	
8515	Instrument Development - 100 Area	15
	Job #3-1 Fission Break Monitors 12-2 Matrix Monitor 12-3 Three-Dimensional Recorder 26 Poison Computer 28 Wire Flux Monitor 42 100 Area Evaluation 46 Compensated Ion Chamber 56 Automatic Pile Control 57 Flow Monitor 62 Temperature Monitor	
8514	Instrument Development - 200 Area	42
	Job #1 Counting Room Inst. 2-2 H <sub>2</sub> S Detector 5 Dimple Water Monitor 5-1 Alpha Water Monitor 5-2 Beta-Gamma Water Monitor 7-2 Laundry Monitor 7-3 Alpha Hand and Foot Monitor 8-2 Tritium Air Monitor 8-3 Tritium Water Monitor 44 Standards Lab 58 Variable Scaler 69 Fission Counter 70 Airborne Alpha Monitor 73 Golve Box Monitor 76 Turbidimeter 77 Continuous Colorimeter 80 Continuous Polarograph 81 M-S Inventory Monitor 83 In-Line Sampling Facilities 84 Component Testing 85 Coupling Load Monitor	

UNCLASSIFIEDAPPENDIX DTECHNICAL DIVISION STUDY STATUSDPW-55-15-7

<u>Study No.</u>	<u>Title</u>	<u>Man Mo.</u>	<u>From</u>	<u>To</u>	<u>Man Mo. Used Against Authoriz.</u>	<u>Total Man Mo. Used FY-1955</u>	<u>Program</u>	<u>Budget</u>
8501	Non-destructive Testing	0	7/1/55	9/30/55	0	75.35	60% MD 40% MD	2722 2771
8502	300 Area Process Development - Present Components	6	7/1/55	9/30/55	0	9.85	MD	2722
8503	New Fuel Element Fabrication	38	7/1/55	9/30/55	0	40	MD	2722
8504	Protective Coatings for New Fuel Elements	39	7/1/55	9/30/55	0	97.90	MD	2722
8505	Corrosion	13	7/1/55	9/30/55	0	44.90	50% MD 35% MD 15% MD	2722 2742 2771
8506	100 Area Process Development - General	15	5/1/55	7/31/55	7.65	54.75	RPD	2723
8508	Instrument Development - 300 Area	27	7/1/55	9/30/55	0	40	75% MD 10% MD 15% MD	2722 2742 2771
8509	Design and Evaluation of Fuel Elements	58.5	5/1/55	7/31/55	33.85	178.95	60% RPD 40% RPD	2723 2743
8511	Separations Process and Equipment Demonstration	45	6/1/55	8/31/55	13.05	132.95	95% CPD 5% CPD	2724 2730
8512	Separations Process Chemistry	58	6/1/55	8/31/55	15.55	182.45	95% CPD 5% CPD	2724 2744
8513	Separations Engineering Development	45	6/1/55	8/31/55	11.90	135.85	90% CPD 5% CPD 5% CPD	2724 2730 2744

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UNCLASSIFIEDAPPENDIX DTECHNICAL DIVISION STUDY STATUS (Cont.)DPW-55-15-7

<u>Study No.</u>	<u>Title</u>	<u>Man Mo.</u>	<u>From</u>	<u>To</u>	<u>Man Mo. Used Against Authoriz.</u>	<u>Total Man Mo. Used FY-1955</u>	<u>Program</u>	<u>Budget</u>
8514	Instrument Development - 200 Area	42	7/1/55	9/30/55	0	54.20	85% CPD 10% CPD 5% CPD	2724 2730 2760
8515	Instrument Development - 100 Area	15	7/1/55	9/30/55	0	35.70	90% RPD 5% RPD 5% RPD	2723 2730 2743
8517	Separations Process Hazards	3	6/1/55	8/31/55	.20	12	CPD	2724
8518	Theoretical Physics	40	5/1/55	7/31/55	20.25	120.75	75% RPD 5% RPD 20% RPD	2723 2730 2743
8519	Experimental Pile Physics	68	5/1/55	7/31/55	40.50	254.85	50% RPD 10% RPD 40% RPD	2723 2730 2743
8520	100 Area Mechanical Development	40.5	5/1/55	7/31/55	24.40	141.60	65% RPD 35% RPD	2723 2743
8521	Hydriside Development	2	6/1/55	8/31/55	1.15	24.10	CPD	2730
8522	Analytical Chemistry Development	29	6/1/55	8/31/55	7.45	102.90	10% RPD 70% CPD 20% MD	2723 2724 2742
8523	Waste Handling	3	6/1/55	8/31/55	.45	3.30	CPD	2724
8524	New LM Elements	18	7/1/55	9/30/55	0	147.55	20% MD 80% MD	2742 2771
8525	Fluid Pressure Facility				(For construction only)		MD	2722
8526	Recycle Facility				(For construction only)		CPD	2704
8527	Recycle Development	6	6/1/55	8/31/55	2.10	10.95	CPD	2704
8528	Heat Treating Facility				(For construction only)		MD	2722

UNCLASSIFIED

**DATE  
FILMED**

**10/28/94**

**END**

