

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 246

No. 6M	Title	Date	Author	Cls.
4163	Operation of Situation Display Semi-Automatic (Recording) Camera, AN/FSQ-7 (XD-1 & XD-2)	5-21-56	L. Sutro	U
4164	Test Equipment Committee Meeting of January 27, 1956	2-10-56	L. Sutro	U
4165	Suggested Changes to be Made in the Weapons Assignment Displays (Draft)	2-7-56	F. Garth	C
4166	ESS Systems Engineer	2-16-56	W. Davenport R. Everett C. Wieser	U
4167	Preoperational Checkout before Scheduled Test	2-16-56	C. Watt	U
4168	Film Negatives and Prints for XD-1 Cameras	2-16-56	C. Watt L. Sutro	U
4169	Operating Instructions for the Telephone Key Units at the SSC and D/O Consoles	2-17-56	W. Glass	C
4170	Operating Instructions for the Telephone Units at the FOI, C & E, AC & W, and AAO Consoles	2-17-56	W. Glass	C
4171	Operating Instructions for the Telephone Key Units at the Met. Officer, Liaison and CAA Consoles	2-17-56	W. Glass	C
4172	Operating Instructions for the Telephone Key Units at the SD and SDT Consoles	2-17-56	W. Glass	C
4173	Operating Instructions for the Telephone Key Units at the SWD and SWDT Consoles	2-17-56	W. Glass	C
4174	Operating Instructions for the Telephone Key Units at the ATO and ATT Consoles	2-17-56	W. Glass	C
4175	Operating Instructions for the Telephone Key Units at the WD's and WDT's Consoles	2-17-56	W. Glass	C
4176	Operating Instructions for the Telephone Key Units at the AAD and AADA Consoles	2-17-56	W. Glass	C

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 247

No.6M	Title	Date	Author	Cls.
4177	Operating Instructions for the Telephone Key Units at the IND's and INT's Consoles	2-17-56	W. Glass	C
4178	Operating Instructions for the Telephone Key Units at the ASO and AST Consoles	2-17-56	W. Glass	C
4179	Operating Instructions for the Telephone Key Units at the TO and TOT Consoles	2-17-56	W. Glass	C
4180	Operating Instructions for the Telephone Key Units at the IS Console	2-17-56	W. Glass	C
4181	Operating Instructions for the Telephone Key Units at the TI-1 through TI-5 Consoles	2-17-56	W. Glass	C
4182	Operating Instructions for the Telephone Key Units at the TS-1 Console	2-17-56	W. Glass	C
4183	Operating Instructions for the Telephone Key Units at the TS-2 Console	2-17-56	W. Glass	C
4184	Operating Instructions for the Telephone Key Units at the TMS-1 and TMI-1 through TMI-4 Consoles	2-17-56	W. Glass	C
4185	Operating Instructions for the Telephone Key Units at the TMS-2 and TM2-1 through TM2-4 Consoles	2-17-56	W. Glass	C
4186	Operating Instructions for the Telephone Key Units at the OT-1 and OT-2 Consoles	2-17-56	W. Glass	C
4187	Operating Instructions for the Telephone Key Units at the HS Console	2-17-56	W. Glass	C
4188	Operating Instructions for the Telephone Key Units at the HT-1 through HT-5 Consoles	2-17-56	W. Glass	C
4189	Operating Instructions for the Telephone Key Units at the IDO, IDT-1 and IDT-2 Consoles	2-17-56	W. Glass	C

6D-52-1

Page 248

No.6M	Title	Date	Author	Cls.
4190	Operating Instructions for the Telephone Key Units at the MS-1 and MS-2 Consoles	2-17-56	W. Glass	C
4191	Operating Instructions for the Telephone Key Units at the MIS Console and MIS Tables	2-17-56	W. Glass	C
4192	Operating Instructions for the Telephone Key Units at the MIT-1 through MIT-5 Consoles	2-17-56	W. Glass	C
4193	Operating Instructions for the Telephone Key Units at the ASC Console	2-17-56	W. Glass	C
4194	Operating Instructions for the Telephone Key Units at the M & R Console	2-17-56	W. Glass	C
4195	Operating Instructions for the Telephone Key Units at the SIM1, SIM2, SIM3 and SIM SUP Consoles	2-17-56	W. Glass	C
4196	Operating Instructions for the Telephone Key Units at the RM-1 and RM-2 Panels	2-17-56	W. Glass	C
4197	Operating Instructions for the Telephone Key Units at the Maintenance Console-Desk-Display (E20) Console	2-17-56	W. Glass	C
4198				
M 4199	Minutes of the IBM-DCO Concurrence Meeting #54 Held at Lincoln Laboratory February 16, 1956	1-20-56	J. Giordano	U
4200	Miscellaneous Equipment at the Direction Center in the Experimental Sage Subsector	2-1-56	R. Raffa M. Di-Carlo - Cottone	C
4201	Program Numbers	2-21-56	S. Thompson	U
M 4202	Sage System Meeting of February 20, 1956	2-21-56	P. Gray	U
4203	Initial Data Reduction Requirements for ESS Shakedown Exercises	2-27-56	M. Clarke J. Slagle	C

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 249

No.	Title	Date	Author	Cls.
4204	Air Defense Indoctrination Lectures (Series Four)	2-10-56	A. Hill	U
4205	XD-1 Input and Output Compatability with Remote Equipment in ESS	3-1-56	R. Shorey	C
4206	Parameter Checkout Subsection	2-24-56	H. Benington P. Vance	U
4207	Standard Operating Procedure for Lincoln Laboratory Technician Handling Film for SD Recording Camera XD-1	3-27-56	L. Sutro	U
<i>B</i> 4208	Bi-Weekly Report for Period Ending February 24, 1956	3-1-56	Division 6 Staff	C
4209	Standard Procedure for Logkeeping of MIT Time on XD-1	2-27-56	C. Watt	U
<i>M</i> 4210	Sage System Meeting of February 27, 1956	2-27-56	P. Gray	U
4211	Specifications for the Octal Loading Program	2-29-56	C. Gaudette	U
<i>M</i> 4212	Lincoln Laboratory Personnel List	3-1-56	Division 6 Staff	U
4213	Group 67 Computer Operation Office	3-15-56	P. Vance	U
4214	Data Organization for Lincoln Utility System: Central Tables, Tape and Card Forms, Storage Allocations	3-2-56	P. McIsaac	U
4215	Operational Specifications for the Assemble Communication Pool Program	2-25-56	A. Hills et al	U
4216	Category Switch Labels for AN/FSQ-7 and XD-1 Situation Display Consoles	2-28-56	G. Talpin J. Berman	C
4217	Proposed Design of a Digital CFAR Computer	3-6-56	R. Best T. Meisling	C
<i>M</i> 4218	A Sequential-Access Three-Micro- second Core Memory	3-8-56	T. Meisling R. Best	U
<i>M</i> 4219	Return of Little-Used Division 6 Test Equipment	2-24-56	L. Sutro	U

6D-52-1

Page 250

No.6M	Title	Date	Author	Cls.
4220	Test Equipment Committee Meeting of February 24, 1956	2-24-56	L. Sutro	U
4221				
4222	Error Checking Equipment (Comparator) for Use in LRI Subsystem Checks in Sage	3-1-56	W. Canty	U
4223	Schedule for Experimental Subsector System Testing by Group 64 and Group 22	5-11-56	C. Grandy W. Johnson F. Heart	C
4224	Results of First Two Meetings of the Assembly- Test Committee	3-2-56	H. Benington	C
4225	Minutes of Meeting to Discuss Office Space, Status Board, and Teletype Equipment, February 29, 1956	3-2-56	W. Ayer	U
M 4226	Transients for Cryotron Tree Switch	3-30-56	M. Epstein	U
M 4227	Sage System Meeting, March 5, 1956	3-5-56	P. Gray	C
4228	Operational Specifications for the Read-In Program	3-6-56	M. Sifnas	U
4229	Description of the Lincoln Utility System I	3-7-56	P. Bagley	U
4230	Use of the WWI General Electric Ground-to-Air Data Link Output System	3-9-56	C. Lin	C
4231	Status of Bariated-Nickel Cathode Program	3-6-56	W. Gardner	U
4232				
4233	Changes to Experimental Subsector	3-8-56	J. Forrester C. Overhage	U
4234	Regulations for Preparing Coding Sheets and Flow Diagrams	3-8-56	R. Reiss	U
4235	Organization of Section 40 of Individual Coding Specifications	3-8-56	R. Reiss	U

6D-52-1

Page 251

No.6M	Title	Date	Author	Cls.
4236	Supplements and Corrections to IBM Document PH45-00002, Theory of Programming	3-26-56	P. Bagley T. Puorro-IBM	U
4237	Digital Display Slot Assignment for AN/FSQ-8	3-31-56	R. Reed	C
4238	Meeting on Communication Facilities to TT-2	3-9-56	C. Carter	C
<i>B</i> 4239	Bi-Weekly Report for Period Ending March 9, 1956	3-16-56	Division 6 Staff	C
<i>M</i> 4240	Air Defense Indoctrination Lectures (Series Five)	3-12-56	A. Hill	U
<i>M</i> 4241	Sage System Meeting of March 12, 1956	3-12-56	P. Gray	C
4242	ESS Weather Facilities and Test Concepts	4-13-56	S. Hauser et al	C
<i>M</i> 4243	Minutes of the IBM-SC Concurrence Meeting #56 Held at Lincoln Laboratory, March 15, 1956	3-16-56	J. Giordano	U
4244	Vector Message Geographic Display Program 8402	3-21-56	A. Werlin	C
4245	Details of a Proposed Method for Operating XD-1 with Raydist	3-22-56	R. Buzzard	C
4246				
4247				
4248				
4249				
4250				
4251				

6D-52-1

Page 252

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
4552				
4253				
4254				
4255				
4256				
4257	Category and Display Assignment Bit Assignments for AN/FSQ-8 Si- tuation Display Consoles	4-27-56	R. Reed	C
4258	A Guide to Adaptation Require- ments for the Air Surveillance Functions of a Sage D. C.	5-28-56	P. Stylos	C
4259	Sage Familiarization Course, June 25 to 29, 1956	3-26-56	A. Hill	U
4260	Improving System Operation of the Lincoln Utility System	3-7-56	R. Carmichael BTL	U
4261	Utilizing Additional Drum Fields to Increase Efficiency of Opera- tion in the Lincoln Utility System	3-7-56	R. Carmichael BTL	U
4262				
B 4263	Bi-Weekly Report for Period Ending March 23, 1956	3-29-56	Division 6 Staff	C
4264	Interim Table Simulation	3-12-56	M. McEvoy J. Schwartz	U
4265	G/A Data Link Messages-- Display Program #8401	6-3-56	W. Vollmer WE	C
4266	XD-1 Improvement Study: Preliminary General Observations on Master Ope- rational Active Program Cycle Time Means of Decreasing It	3-27-56	W. Hosier	C

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 253

No.6M	Title	Date	Author	Cls.
4267	Test Equipment Committee Meeting of March 16, 1956	3-28-56	H. Hodgdon	U
4268	Investigation of Need for Magnetic Tape Recorders in Sage Subsystem Testing	4-10-56	E. Lundberg	U
4269				
M 4270	XD-1 System Operation and Results of System Test from December 3, 1955 through March 10, 1956	3-28-56	C. Watt	U
M 4271	Sage System Meeting of March 26, 1956	3-26-56	P. Gray	U
4272				
4273	Investigation of Need for Error Checking Equipment (Comparator) in IRI Subsystem Testing In Sage	4-10-56	E. Lundberg	U
4274	Addendum to all Test Concept Memoranda	4-5-56	T. Sandy	U
4275				
4276				
4277				
4278	ESS Shakedown Simulated Problem Design	5-3-56	R. Lawrence J. Coyne	C
M 4279	Sage System Meeting of April 2, 1956	4-2-56	P. Gray	C
4280	Weekly Simulated Problem Requirements for ESS Shakedown Exercises	4-4-56	M. DiCarlo-Cottone	C
4281	General Shakedown Test Requirements	5-18-56	T. Callahan	C
4282	Trip Report Concerning Magnetic Deflection Yokes	4-2-56	H. Zieman	U

6D-52-1

Page 254

No.6M	Title	Date	Author	Cls.
4283				
4284	Establishing Technical Control in ESS: Proposed Space for the Maintenance Coordinator in Building F	4-5-56	C. Watt	U
4285	Air Defense Indoctrination Lectures (Series Six)	4-5-56	A. Hill	U
B 4286	Bi-Weekly Report for Period Ending April 6, 1956	4-13-56	Division 6 Staff	C
M 4287	Sage System Meeting of April 9, 1956	4-9-56	P. Gray	C
M 4288	Minutes of the IBM-DCO Concurrence Meeting #58 Held at Lincoln Laboratory April 5, 1956	4-9-56	J. Giordano	C
B 4289	Epscom Bi-Weekly Report for April 6, 1956	4-9-56	R. Mayer	C
4290	Results of Test on Power System for the AN/FSQ-7 (XD-1) (Phase X)	2-28-56	G. Piantoni	U
4291				
4292	Word Formats	4-16-56	K. Brock	C
4293				
4294	Console Keyboard-Keyboard-Input Matrix Relationship for XD-1 Memo II-- Air Surveillance Room	5-11-56	J. Berman A. Rupp G. Tolpin	C
4295	Console Keyboard-Keyboard-Input Matrix Relationship for XD-1 Memo III---Weapons Direction Room	5-4-56	J. Berman A. Rupp G. Tolpin	C
4296	Console Keyboard-Keyboard-Input Matrix Relationship for XD-1 Memo IV--- Command Post	5-4-56	J. Berman G. Tolpin A. Rupp	C
4297	Console Keyboard-Keyboard-Input Matrix Relationship for XD-1 Rooms T, I, D, M and Computer	5-11-56	G. Tolpin J. Berman A. Rupp	C
4298	Proposed Research Program on Thin Film	4-17-56	A. Loeb	U

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 255

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
4299				
4300	A Project for the Study of Self-Organizaing Data Processing Systems	5-1-56	B. Farley	U
4301	Manning and Resources Needed at McGuire for Operational Program Checkout	4-17-56	P. Bragar J. Carson	C
<i>B</i> 4302	Bi-Weekly Report for Period Ending April 20, 1956	4-26-56	Division 6 Staff	C
4303	Parameters of the GE 2N136 PNP Alloyed Junction Transistor	4-23-56	G. Davidson	U
4304	Division 6 Power Distribution Equipment	4-24-56	M. Bright	U
4305	Time Demands on the AN/FSQ-7(XD-1) Computer During 1957-1958	4-25-56	J. Forrester	C
4306	Equipment Program Services Committee Reorganization	5-1-56	R. Mayer	U
<i>B</i> 4307	Epscom Bi-Weekly Report for April 20, 1956	4-26-56	W. Hodgdon	C
<i>M</i> 4308	Time Cycle for the Initial Sage Operational Computer Program	4-25-56	R. Everett	C
4309	Thyratron D-C Power Supplies for TX-O Computer and Display Development Laboratory	5-2-56	S. Coffin	U
4310	Test Equipment Committee Meeting of April 13, 1956	4-26-56	H. Hodgdon	U
4311	Procedure for Processing Equipment Change Request in Groups 61 & 67	4-28-56	E. Lundberg	U
<i>M</i> 4312	Minutes of the IEM-DCO Concurrence Meeting #60 Held at Lincoln Laboratory April 26, 1956	4-27-56	J. Giordano	U
4313	Long Range Radar Monitor, Bread-Board	4-30-56	J. McCusker	U
4314				

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1		Page 256		
No.6M	Title	Date	Author	Cls.
	4315 MTC Distribution List	5-1-56	A. Vanderburgh	U
M	4316 Sage System Meeting of April 23, 1956	4-23-56	P. Gray	C
M	4317 Sage System Meeting of April 30, 1956	4-30-56	P. Gray	C
	4318 MTC Estimated Time Allocation May 1956 to December 1956	5-5-56	A. Vanderburgh	U
	4319			
	4320			
	4321 AN/FSQ-8 Warning Light and Audible Alarm Bit Assignments	5-7-56	G. Tolpin	U
B	4322 Bi-Weekly Report for Period Ending May 4, 1956	5-11-56	Division 6 Staff	C
B	4323 Epscom Bi-Weekly Report for May 4, 1956	5-10-56	R. Mayer	C
	4324 Syllabus for the Sage Familiarization Course June 25-29, 1956	5-21-56	A. Hill	U
	4325			
	4326 Proposed Change of Operational and Incident Logs under IBM Field Management	5-16-56	P. Harris	U
	4327 Air Force and Army Operator Requirements for Experimental Sub-sector System Testing	6-4-56	J. Coyne	C
M	4328 The Influence of Chemistry on B-H Loop Shape Coercivity, and Flux-Reversal Time in Ferrites	5-16-56	J. Goodenough	U
	4329 Some Characteristics of the Western Electric GA52830(M-2012) Medium Power Transistor	5-16-56	G. Davidson	U
	4330			

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 257

No.6M	Title	Date	Author	Cls.
4331	Light Gun Codes and Light Gun Assignments in AN/FSQ-8	5-19-56	A. Rupp J. Berman	U
4332				
4333	Console Keyboard-Keyboard-Input Matrix Relationship for AN/FSQ-7, Memo II Air Surveillance Room	7-13-56	A. Rupp J. Berman	C
4334				
4335	Console Keyboard-Keyboard-Input Matrix Relationship for AN/FSQ-7 Memo IV Command Post	7-20-56	A. Rupp J. Berman	C
4336				
4337	Initial Program Specifications: Mathematical Specifications for Intercept Direction in the Sage System	5-17-56	E. Braude et al	C
4338	Summary of D-C Power Supply Evaluation Studies AN/FSQ-7	5-16-56	S Coffin	U
M 4339	Sage System Meeting May 14, 1956	5-14-56	P. Gray	U
4340	Initial Program Specifications: Mathematical Specifications for Weapons Assignment in the Sage System	5-17-56	E. Braude et al	C
4341	Nomenclature for Consoles and Operating Positions in AN/FSQ-8	5-19-56	J. Berman	C
4342	Pseudo Control Cards for UCP	5-18-56	R. Carmichael (BTL)	U
4343	AN/FSQ-8 Core Matrix Assignments	5-19-56	J. Berman	C
4344	Test Equipment Committee Meeting May 4, 1956	5-21-56	H. Hodgdon	U
B 4345	Epscom Bi-Weekly Report for May 18, 1956	6-5-56	R. Mayer	C
4346	Long Range Radar Subsystem Testing Team Progress Report Week Ending May 13, 1956	5-22-56	D. Meng	C

6D-52-1

Page 258

	<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
B	4347	Bi-Weekly Report for Week Ending May 18, 1956	5-24-56	Division 6 Staff	C
M	4348	Minutes of the IBM-DCO Concurrence Meeting #62 Held at Lincoln Labo- ratory May 27, 1956	5-21-56	J. Giordano	U
M	4349	Sage System Meeting May 21, 1956	5-21-56	P. Gray	C
	4350	Ground/Air Program	5-22-56	R. Bernards WE J. Wong Rand	C
	4351	Power Requirements in MTC	5-25-56	N.Ockene	U
	4352	Category Switch Labels for AN/FSQ-8 Situation Display Consoles	5-28-56	G. Tolpin	C
	4353	Initial Program Specifications: Operational Specifications for Situation Displays in the Sage System	5-28-56	R. Reed	C
	4354	ESS Shakedown Testing Requirements for Photographic Recording	5-25-56	R. Watters	C
M	4355	Sage System Meeting May 28, 1956	5-28-56	P. Gray	C
	4356	An Approach to Reliability Analysis	5-29-56	M. Epstein	U
M	4357	Lincoln Laboratory Personnel List June 1, 1956	6-1-56		U
	4358	Utility Control Console Switch Assignments	5-23-56	P. Bagley	U
B	4359	Epscom Bi-Weekly Report for June 1, 1956	6-7-56	R. Mayer	C
^P M	4360	Minutes of the IBM-DCO Concurrence Meeting #64 Held at Lincoln Labo- ratory May 31, 1956	6-4-56	J. Giordano	U
B	4361	Bi-Weekly Report for Week Ending June 1, 1956	6-11-56	Division 6 Staff	C
M	4362	Magnetization Reversal in Thin Films	6-4-56	D. Smith	U
M	4363	Sage System Meeting June 4, 1956	6-4-56	P. Gray	C
	4364	Sage Subsector System Test Committee Final Report	6-11-56	K. McVicar	S

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 259

No.6M	Title	Date	Author	Cls.
4365	Test Equipment Committee Meeting 25, May 1956	6-12-56	H. Hodgdon	U
4366	Minutes of Meeting to Discuss Difficulties with Telephone Cable Routing in Auxiliary Consoles	6-12-56	G. Carter	U
4367	Operational Specifications for Duplex and Standby Computer Operation at a Sage Direction Center	7-6-56	J. Groce et al.	C
4368	XD-1 - AN/FSQ-7 Display System Differences	6-19-56	J. Berman	C
M 4369	Minutes of the IBM-DCO Concurrence Meeting #66 Held at Lincoln Laboratory 14, June 1956	6-25-56	J. Giordano	U
B 4370	Bi-Weekly Report for Period Ending June 15, 1956	6-20-56	Division 6 Staff	C
B 4371	Epscom Bi-Weekly Report for June 15, 1956	6-20-56	R. Mayer	C
4372	Maintenance and Trouble-Shooting Standby Equipment in Sage	6-19-56	S. Thompson	U
4373				
4374	Charactron Life-Test Report	6-25-56	P. Tandy	C
4375	Viewing of Film Exposed in XD-1, AN/FSQ-7 and AN/FSQ-8 Cameras	6-25-56	L. Sutro L. Sanford	U
4376	Pseudo Control Cards for the Utility System	6-25-56	P. Bagley	U
M 4377	Sage System Meeting June 18, 1956	6-18-56	P. Gray	U
M 4378	Sage System Meeting June 25, 1956	6-25-56	P. Gray	U
4379	Specifications for Track (Radar) Data Simulation Program (IDS)	6-27-56	H. Rundquist	C
4380	Coding Specifications-Quick Radar Status Recapitulation Program #8905	7-12-56	C. Sherrard-BIL	U

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 260

No.6M	Title	Date	Author	Cls.
4381	Coding Specifications-RI Drum Data B- Scan Display Program #8506	7-12-56	C. Sherrard BTL	U
4382	Coding Specifications-IRI Sub-System Single Message Test Program #8953	7-12-56	C. Sherrard BTL	U
4383	Coding Specifications-Data Coordinate Conversion Routine for Height Flight Test Tracking Program Print-Out	7-12-56	C. Sherrard BTL	U
4384				
M 4385	Lincoln Laboratory Personnel List July 1, 1956	7-1-56	Division 6 Staff	U
B 4386	Bi-Weekly Report for Period Ending June 29, 1956	7-5-56	Division 6 Staff	C
4387	Lecture Series on the Sage Operational Specifications(Series I)	7-3-56	A. Hill	U
4388	DCA Program Timing Considerations Affecting Input Simulation	7-11-56	A. Shoolman	C
4389	Additional Testing Efforts in the First Module McGuire, Stewart, Syracuse.	7-6-56	W. Ayer et al	C
4390	Heat Dissipator Characteristics	7-9-56	E. Cohler	U
4391				
4392				
4393				
4394				

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 261

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
4395	Lecture Series on the Sage Operational Specifications(Series II)	7-10-56	A. Hill	U
4396	Sage System Meeting, July 9, 1956	7-11-56	P. Bragar	C
4397	Sage on Site Air Defense Program Checkout Schedule	7-11-56	K. McVicar D. Langfield(Rand)	S
4398	Test Equipment Committee Meeting, June 15, 1956	7-11-56	H. Hodgdon	U
4399	Specifications for a Keyboard Input Simulation	7-17-56	H. Rundquist	U
4400	Memory Test Computer-Program for Read-In of Binary	7-16-56	M. Fichter	U
4401	Memory Test Computer-Program for Punching Binary Cards	7-16-56	M. Fichter	U
4402	Bi-Weekly Report for Period Ending July 13, 1956	7-18-56	Division 6 Staff	C
4403	MTC Symbolic Floating Address Assembler Program	7-17-56	M. Long (Rand) T. Olsen.	U
4404				
4405				
4406				
4407				
4408	Program Requirements for ESS Combined Program Equipment Testing and System Shakedown Testing	7-24-56	M. DiCarlo-Cottone W. Johnson	C
4409	Master's Thesis Proposal: Frequency Dependence of Ferrites at Moderate Field Intensities	7-25-56	M. Cerier	U
4410	Sage System Meeting July 16, 1956	7-25-56	P. Bragar	C

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1		Page 262		
<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls</u>
4411	Sage System Meeting of July 23, 1956	7-25-56	P. Gray	C
4412	Height Finder Addressing Problem	7-25-56	S. Ginsburg	C
4413				
4414				
4415				
4416	MTC Purchase of a Closed Circuit TV System	7-27-56	H. Ziegler	U
4417	Bi-Weekly Report for Period Ending July 27, 1956	8-1-56	Division 6 Staff	C
4418				
4419	Sage System Meeting of July 30, 1956	7-30-56	P. Gray	U
4420	The Expanded WWI High-Speed Memory	7-31-56	D. Morrison	U
4421	Use of 704 Computer for Division 6 Sage Tasks	7-31-56	K. McVicar B. Morriss	U
4422				
4423	Group 66 Training Document: Introduction to the Lincoln Utility System (Mod. II)	8-1-56	J. Croke	U
4424	Group 66 Training Document: Utility Com Pool	7-31-56	R. Shorey	U
4425	Test Equipment Committee Meeting of July 13, 1956	7-2-56	H. Hodgdon	U

The 6M-5000 Numbers which follow were used as a Block by Groups 61 and 62 for their joint interests. The Block use is now Completed.

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5000	Sage Test Program Reporting Program	4-28-55	Sage Test Committee	U
5001	Outline and Work Items for 1954 Cape Cod System Test Program	4-6-55	D. Israel et al	C
5002	Sage Test Committee Meeting #1	4-14-55	Sage Test Office	C
5003	Computer Programs and Facilities Required for the Test and Evaluation of the Experimental Sage Subsector	4-27-55	Sage Test Committee	C
5004	Preliminary Outline of Test Program for Experimental Sage Subsector	4-27-55	Sage Test Office	C
5005	Computer Time Requirements for Test Program of Experimental Sage Subsector	4-28-55	Sage Test Committee	C
5006	Specifications for Initial Series of Tracking-Monitoring Tests	4-8-55	J. Nolan	C
5007	Sage Test Committee Meeting #2	4-28-55	Sage Test Office	C
5008	Initiation Studies and Test	1-14-55	D. Israel	C
5009	Test Specifications: Track Initiation Study with Single Coverage SDV Data Series A	5-1-55	J. Levenson	C
5010	General Considerations of the Radar Data Input Problem with Applications to the 1954 Cape Cod System	1-11-55	E. Wolf	C
5011	Procedures and Program Specifications to Compare 1954 Cape Cod System Track Data with Raydist Measurements	2-16-55	W. Lemnios	C
5012	Test Specifications: B-29 Tracking Accuracy Tests, Non-Maneuvering Courses	4-8-55	W. Lemnios	C
5013	Test Specifications: Interceptor Tracking Accuracy Tests, Non-Maneuvering Courses	4-8-55	W. Lemnios	C
5014	Survey of Test Required for the Evaluation of Interception Function in the 1954 Cape Cod System	6-1-55	D. Israel W. Lemnios	C

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 264

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5015	Data Collection for Noise Studies	11-2-54	D. Israel	C
5016	Specifications of Processing Programs for Noise Studies	5-5-54	W. Wells D. Israel	C
5017	Status of SDV Data Collection for Noise Studies	6-20-55	S. Manber	C
5018	Program Specifications for Data Generation Program	12-8-54	J. Nolan J. Levenson E. Wolf	C
5019	Some Post-Test Data-Reduction Programs for the 1954 Cape Cod System	3-14-55	J. Levenson	C
5020	Test Specifications: Initial Mapping Study (Revision of 6M-3481, March 28, 1955)	5-24-55	W. Harris	C
5021	Test Specifications: Cross-Tell Function of the Manual Input Room	5-10-55	J. Keith Smith	U
5022	Planned ECM Activities for 1954 Cape Cod Test Program	6-3-55	D. Israel	C
5023	Sage Test Committee Meeting #3	6-8-55	Sage Test Office	C
5024	Plan for Initial Period of ESS Test Program	6-6-55	Sage Test Committee	C
5025	Program Specification for Recording SDV Data Inputs on Raytheon Tape (Work Item 5.30.03)	5-16-55	Sage Test Committee	C
5026	Program Specification for Displaying Information on Isolation of Radar Returns	5-9-55	Sage Test Committee	C
5027	Procedures for Preparation of Simulated Data Input Tapes for Use in the 1954 Cape Cod System	6-17-55	A. Smalley E. McEvoy	C
5028	Test Specifications: Interception Series I, Part A	6-21-55	D. Yntema	C
5029	Simulated Data Reference Program	6-22-55	A. Mathiason J. Nolan	C

Page 265

6D-52-1				
No.6M	Title	Date	Author	Cls.
5030	Test Specifications:B-47 Tracking Accuracy Tests, Non-Maneuvering Courses	6-23-55	M. Curran	C
5031	Sage Test Committee Meeting #4	7-13-55	Sage Test Committee	C
5032	Test Specifications:B-29 Tracking Accuracy Tests Maneuvering Courses	7-11-55	M. Smith M. Curran	C
5033	Test Specifications for Interception Series 2,3 and 4	8-10-55	F. Graham A. Budd	C
5034	Multiple SDV Prints-Heavy Radar (BTL Memo)	6-3-55	Sage Test Committee	C
5035	Post-Test Data Reduction for the Interception Studies	8-5-55	F. Graham	C
5036				
5037	Failure Reporting in Air Force and Applicability to Cape Cod System	8-29-55	C. Uskavitch	U
5038	Effect of Association Between Radar Data from Successive Scans on Probability of Track Initiation in the Sage System	8-2-55	J. Stewart BTL	C
5039	Great Circle Distances and Bearings between 1954 Cape Cod System Radar Sites with Overlapping Coverage	8-2-55	W. Butler BTL	C
5040	Measurement of SDV Returns from Weather in Selected Regions of Radar Coverage	8-2-55	W. Rohn BTL	C
5041	Table for Radar Track Simulation	8-2-55	P. Olmstead BTL	U
5042	A Technique for Measuring Areas of Weather Clutter	8-3-55	J. Drinan	U
5043	Frequency of Occurrence of Weather Clutter on L Band Radar	8-4-55	V. Nedzel J. Drinan	C
5044	MPS-4 Height Finder Analyses	8-12-55	R. Benedict	C

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5045	Scan-to-Scan Associates of Radar Returns from Aircraft	8-2-55	P. Olmstead BTL	U
5046	Occurrence of Multiple Radar Signals in the SDV System	8-9-55	P. Olmstead BTL	C
5047	Location of Radar at Montauk, New York	8-9-55	W. Butler BTL	C
5048	Collection of Radar Data for Noise Studies	8-9-55	E. Ennis BTL	C
5049	1954 Cape Cod Test Program Schedules	8-8-55	A. Nedzel W. Wells	C
5050	Analysis of Radar Returns Resulting from Weather	8-16-55	E. Ennis BTL	C
5051	Reliability of Digital Data Transmission Via a Federal Type 10B Microwave Circuit	8-11-55	J. Uskavitch	U
5052	Radar Coordinates	8-11-55	G. Harris	C
5053	Variability of Weather Clutter	8-15-55	J. Uskavitch	C
5054	Sage Test Committee Meeting #5	8-29-55	Sage Test Office	C
5055	Data on Equipment Troubles in the Lincoln System	8-16-55	A. Herchmans E. Ennis BTL	U
5056				
5057	Performance Monitoring Program	9-19-55	J. Uskavitch	U
5058	Air Traffic Observed by Gap-Filler	10-24-55	J. Uskavitch	C
5059	Preliminary Results of Simulation of the Lincoln Vectoring System on the NIP Simulator	9-7-55	R. Giloth BTL	C
5060	A Relationship between Sampling Rate and Accuracy of Data	2-1-56	H. Neuman W. Wells	C
5061	Test Program Use of MISP	8-30-55	J. Nolan	C
5062	General Raydist Equations	9-14-55	G. Sponsler	U
5063				

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5064	Use of B-57 Aircraft in Flight Test	10-1-55	V. Nedzel	C
5065	Comparison of MISP and BTL Simulation Results	9-7-55	W. Wells H. Neumann	C
5066	Summary Report of the 1953 Cape Cod System Tests	11-1-55	E. Martin BTL	S
5067	Survey of Systems Operations Tests	9-6-55	W. Wells	C
5068	Fundamental Requirements for Tests of 1954 Cape Cod System	9-8-55	E. Ennis BTL	C
5069	Estimation of Radar Clutter Due to Precipitation	9-15-55	H. Krist BTL	C
5070	Interceptor Vulnerability Limits for NIP Simulation of Lincoln System	11-3-55	D. Bomberger BTL	S
5071	Vectoring Limits for a Two-Variable Presentation of Interceptor Vectoring	11-3-55	W. Rohm BTL	C
5072				
5073	Test Specifications: System Operation Tests. Series I	10-10-55	G. Lewitzky	C
5074	Initiation Studies and Tests	10-11-55	H. Keit	C
5075	Initiation Tests: Series I	10-18-55	H. Keit J. Williams	C
5076	Initiation Test Specifications, Series II	10-18-55	J. Williams	C
5078				
5079	The Occurrence of Precipitation Clutter on FPS-3 Radars	12-5-55	F. Ditto J. Curkiss	S
5080	Azimuth Angle Error Due to Tilted Antenna	12-8-55	R. Gold	U
5081				

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 268

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5082				
5083				
5084	Test Specifications: Intercept Tracking Accuracy Test Maneuvering Courses	12-28-55	M. Curran	C

6D-52-1

Page 269

No.6M	Title	Date	Author	Cls.
5300	ESS Planning Coordination Center	1-11-56	E. Lundberg	U
5301	ESS-PCC Status Report for Week Ending 20, January 1956	1-20-56	E. Lundberg	C
5302	ESS-PCC Status Report for Week Ending 27, January 1956	1-27-56	E. Lundberg	C
5303	Request for Statements of Scopes of Work Relating to ESS Integration and Operation	1-31-56	N. Daggett H. Kirshner	U
5304	ESS-PCC Approval of Proposal on ESS Utilization of Manual Height Finders	2-21-56	ESS-PCC E. Lundberg	C
5305	Preliminary ESS Summary Schedules	2-3-56	N. Daggett H. Mercer	C
5306	ESS-PCC Status Report for Week Ending 3, February 1956	2-6-56	E. Lundberg	U
5307				
5308	Cursory Examination of Problems Involved in ESS System Saturation Tests	3-12-56	ESS-PCC H. Krishner	C
5309	ESS-PCC Status Report for Week Ending 10, February 1956	2-13-56	E. Lundberg	U
5310	ESS-PCC Status Report for Week Ending 17, February 1956	2-20-56	ESS-PCC E. Lundberg	U
5311				
5312				
5313	ESS-PCC Status Report for Week Ending 24 February 1956	2-24-56	ESS-PCC E. Lundberg	U
5314	ESS-PCC Status Report for Week Ending 2 March 1956	3-2-56	ESS-PCC H. Mercer	U
5315	ESS-PCC Status Report for Week Ending 9 March 1956	3-9-56	ESS-PCC H. Mercer	U

6D-52-1

Page 270

<u>No.6M</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
5316	Groups 21, 38 and 311 Participation in ESS	3-21-56	ESS-PCC H. Mercer	U
5317	ESS Summary Schedules	3-16-56	ESS-PCC N. Daggett H. Mercer	C
5318	ESS-PCC Status Report for Week Ending 16, March 1956	3-16-56	ESS-PCC H. Mercer	U
5319	ESS-PCC Status Report for Week Ending 23, March 1956	3-23-56	ESS-PCC H. Mercer	U
5320	Long Range XD-1 Time Allocation Schedule	5-22-56	ESS-PCC J. Watson et al	C
5321	ESS-PCC Status Report for Week Ending 30, March 1956	3-30-56	H. Mercer ESS-PCC	U
5322	ESS Summary Schedule	4-6-56	H. Mercer	C
5323	ESS-PCC Status Report for Week Ending 6, April 1956	4-6-56	ESS-PCC H. Mercer	U
5324	ESS-PCC Status Report for Week Ending 13, April 1956	4-16-56	ESS-PCC H. Mercer	U
5325	ESS-PCC Status Report for Week Ending 20, April 1956	4-20-56	ESS-PCC H. Mercer	U
5326	ESS-PCC Status Report for Week Ending 27, April 1956	5-1-56	ESS-PCC H. Mercer	U
5327	ESS Summary Schedule	5-3-56	H. Mercer	C
5328	ESS-PCC Status Report for Week Ending 4, May 1956	5-7-56	H. Mercer	U
5329	ESS-PCC Status Report for Week Ending 11, May 1956	5-15-56	H. Mercer	U
5330	ESS-PCC Status Report for Week Ending 18, May 1956	6-18-56	H. Mercer	U
5331	ESS Boundaries	5-21-56	R. Buzzard	S
5332				
5333	ESS-PCC Status Report for Week Ending 25, May 1956	5-28-56	H. Mercer	U

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 271

No.6M	Title	Date	Author	Cls.
5334	Orientation of Gap Fillers in ESS	5-28-56	J. Watson	U
5335	ESS Summary Schedule	6-4-56	ESS-PCC H. Mercer	C
5336	ESS-PCC Status Report for Week Ending 1 June 1956	6-4-56	ESS-PCC H. Mercer	U
5337	ESS-PCC Status Report for Week Ending 8 June 1956	6-13-56	ESS-PCC H. Mercer	U
5338	ESS-PCC Status Report for Week Ending 15 June 1956	6-18-56	ESS-PCC H. Mercer	U
5339	ESS-PCC Status Report for Week Ending 22 June 1956	6-25-56	ESS-PCC H. Mercer	U
5340	ESS-PCC Status Report for Week Ending 29 June 1956	7-3-56	ESS-PCC H. Mercer	U
5341	ESS-PCC Status Report for Week Ending 6 July 1956	7-11-56	ESS-PCC R. Wetherbee	U
5342	ESS Summary Schedule	7-13-56	ESS-PCC H. Mercer	C
5343	ESS-PCC Status Report for Week Ending 20 July 1956	7-23-56	ESS-PCC R. Wetherbee	U
5344	ESS-PCC Status Report for Week Ending 27 July 1956	7-31-56	ESS-PCC R. Wetherbee	U

DIVISION 6 - LINCOLN LABORATORY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 LEXINGTON 73, MASSACHUSETTS

Compilation of A Series Memoranda in Division 6 Document Room C-129

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-1	Cancelled		
A-2	Cancelled		
A-3	Electronics Staff	3/5/46	J. W. Forrester
A-4	Development Schedules	3/6/46	J. W. Forrester
A-5	Cancelled		
A-6	Cancelled		
A-7	Progress Reports	3/15/46	J. W. Forrester
A-8	New Offices	3/1/46	J. W. Forrester
A-9	Reports, Schedules and Meetings	3/18/46	H. R. Boyd
A-10	6345 Stockroom	3/30/46	H. R. Boyd
A-11	Electronic Equipment being Moved from Building 32	3/21/46	H. R. Boyd
A-12	Instrument Changes	3/27/46	J. W. Forrester
A-13	Pulse Transformers	3/27/46	J. W. Forrester
A-14	Telephone Calls	5/16/46	J. W. Forrester

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-15	Care and Use of Machine Tools	7/2/46	H. R. Boyd
A-16	Electronics Group	7/15/46	J. W. Forrester
A-17	High Voltage Power Supplies	10/4/46	J. W. Forrester
A-17-1	" " " "	3/23/51	J. W. Forrester
A-18	Machine Parts, Procurement of	10/31/46	J. W. Forrester
A-19	Photography	11/5/46	J. W. Forrester
A-20	Machine Design	12/4/46	J. W. Forrester
A-21	Technicians Assignment Changes	12/6/46	H. R. Boyd
A-22	Professor Bryant's Memo on Report Writing	4/4/47	J. W. Forrester
A-23	Engineering Notes by H. Fahnestock	6/26/47	H. Fahnestock
A-24	Elevator Service	10/3/47	H. R. Boyd
A-25	Moving to Barta Building	9/8/47	H. R. Boyd
A-26	Parking Facilities	9/16/47	H. R. Boyd
A-27	Abstract Reports	9/16/47	J. N. Ulman
A-28	Standardization of Report Headings	9/18/47	J. N. Ulman
A-29	Publication Series	10/3/47	J. W. Forrester
A-30	Reliability of Standard Parts	10/7/47	J. W. Forrester
A-31	Secretarial and typing Services	10/8/47	H. R. Boyd
A-32	Telephone Service	10/8/47	H. R. Boyd
A-33	Drafting	10/10/47	H. R. Boyd
A-34	Drawing and Print Procedures for DIC Project 6345	10/2/47	C. Watt H. R. Boyd
A-35	Machine Shops	10/16/47	H. R. Boyd
A-36	Parking Facilities	10/16/47	H. R. Boyd
A-37	Computer Terminology	11/10/47	J. N. Ulman

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-58	Internal Handling and Mailing of Classified Correspondence and Documents	4/21/48	J. W. Forrester
A-59	Material Control Group - Purpose and Function	5/10/48	H. R. Boyd
A-60	Distribution Records	5/6/48	H. R. Boyd
A-61	Secretarial Procedures	5/21/48	H. R. Boyd
A-62	Non-Staff Work Manual	-	R. A. Osborne
A-63	Thesis Copies, Extra copies for Library	5/21/48	J. W. Forrester
A-64	Extra Thesis Copies	5/25/48	R. R. Everett
A-65	Time Schedules	5/27/48	R. A. Osborne
A-66	Additions to A-34 Procedures	6/9/48	A. M. Falcione
A-67	Non-Staff Organization Chart	6/16/48	H. R. Boyd
A-68	Enforcement of Security & Classification Procedures	6/17/48	H. R. Boyd
A-69	WWI Approved Parts & Specifications	6/23/48	H. Fahenstock H. R. Boyd
A-70	Procedure for DIC Employees Wishing to Register as Special Students	8/4/48	R. A. Nelson H. R. Boyd
A-71	Standards Book, by Standards Committee	9/14/48	
A-72	Off Hours Work	10/14/48	J. W. Forrester
A-73	Benefit Fund Committee	10/15/48	H. R. Boyd
A-74	Terminology	11/9/48	R. R. Everett
A-75	Procurement of Mechanical Parts	11/30/48	H. R. Boyd J. C. Proctor
A-76	Laboratory Hours	12/14/48	H. R. Boyd J. W. Forrester
A-77	Visitors	12/21/48	J. W. Forrester
A-78	Publication Series	12/22/48	J. N. Ulman

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-79	Guard, Receptionist & Operator's Schedule	1/3/49	J. C. Proctor
A-80	Standards Group Reorganization	1/7/49	H. B. Morley
A-81	Production Control	1/7/49	J. W. Forrester
A-82	Property Accounting Procedures	1/25/49	R. M. Fairbrother
A-83	Drafting Standards S1.1, WMI Components Standards S7.0 to S7.29 and WMI General Standard S7.5	3/17/49	C. W. Watt
A-84	Precaution in Handling Beryllium	4/15/59	J. C. Proctor
A-85	Library Organization	4/28/49	V. Andry
A-86	Production Engineering	5/3/49	H. Fahnestock
A-87	Staff Vacations	5/10/49	J. C. Proctor
A-88	Procurement Office Reference Files	6/7/49	H. B. Morley
A-89	Time Cards	6/20/49	R. A. Osborne
A-90	Thesis & Seminar Information	6/23/49	H. R. Boyd
A-91	Security Officer	6/29/49	J. W. Forrester
A-92	Clearance	6/30/49	J. Proctor
A-93	Time Schedule Posting	8/2/49	R. A. Osborne
A-94	Internal Handling of Classified Documents (Suppl. to A-58)	8/3/49	J. C. Proctor
A-95	Changes in Material Control Group	8/25/49	H. R. Boyd
A-96	New Hours and Time Cards	9/30/49	H. R. Boyd
A-97	Harvard Symposium Attendance	9/1/49	H. R. Boyd
A-98	Library Changes	9/30/49	H. R. Boyd
A-99	Fire Drills	10/18/49	J. C. Proctor
A-100	Radio Use	11/2/49	H. R. Boyd

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-101	Travel	11/4/49	J. W. Forrester
A-102	Distribution of Internal Memorandums	11/25/49	H. Fahnestock
A-103	Laboratory Inspections	12/5/49	J. C. Proctor
A-104	Abstracts of Reports	12/22/49	J. W. Forrester
A-105	Sarta Building Safety Committee	1/17/50	H. R. Boyd
A-106	Library Operation	2/9/50	H. R. Boyd
A-107	Classification of Present Work	4/27/50	J. C. Proctor
A-108	Power Shut-Down, May 19-21	5/16/50	H. R. Boyd
A-109	Slides: Procedure for Procuring and Handling	6/1/50	R. A. Osborne
A-110	Division Organization	6/30/50	J. W. Forrester
A-111	Staff Organization	12/11/50	H. Fahnestock
A-112	Distribution of Classified Documents	1/17/51	H. Fahnestock
A-113	Staff Organization	1/26/51	H. Fahnestock
A-115	Non-Staff Work Manual (Supercedes A-62)	3/9/51	R. A. Osborne
A-114	Military Security	2/21/51	J. C. Proctor
A-116	Travel	3/22/51	R. A. Osborne
A-117	New Funds Under Contract AF 19(122- 458, DIC 6889)	5/7/51	H. Fahnestock
A-118	Elevator Service(Supercedes A-24)	3/22/51	R. A. Osborne
A-119	Security	5/24/51	J. C. Proctor
A-120	Building Maintenance Work	5/23/51	J. C. Proctor
A-121	Assigned Stock and Construction Requisitions	6/22/51	H. B. Morley
A-122	Laboratory Contracts Accounts and Bi-Weekly Reports	7/1/51	H. Fahnestock
A-123	Staff Titles	8/21/51	J. W. Forrester

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-124	Change in Laboratory Name	9/20/51	J. W. Forrester
A-125	Personnel Notice	11/16/51	J. C. Proctor
A-126	Staff Seminars	11/16/51	J. W. Forrester
A-127	Staff Seminar, Friday, November 30	11/19/51	R. Rathbone
A-128	Office Procedures	12/1/51	R. A. Osborne
A-129	Toll Calls	2/15/52	J. C. Proctor
A-130	Cancelled	3/5/52	
A-131	Accounting Procedures - DIC 6889	3/26/52	H. Fahnestock
A-132	Barta Building Guard Instructions	4/1/52	J. C. Proctor
A-133	Construction of Equipment in the Digital Computer Laboratory	4/17/52	C. W. Watt
A-134	Production Control	5/22/52	H. Fahnestock
A-135	Mail Delivery	6/12/52	J. C. Proctor
A-136	Reporting of Sick Leave	7/10/52	R. A. Osborne
A-137	Time Cards	7/29/52	R. A. Osborne
A-138	Whittemore Building Guard Instructions	8/1/52	L. Brock
A-139	Telephone Systems in Barta and Whitt- more Buildings	9/11/52	H. Fahnestock
A-140	Salvage	9/15/52	H. B. Morley
A-141	Mail Delivery	9/15/52	H. B. Morley
A-142	DIC Staff Checks and Check Stubs	11/17/52	H. Morley
A-143	Barta Building Guard Instructions	3/18/53	J. C. Proctor
A-144	Whittemore Bldg. Guard Instruction	3/11/53	J. C. Proctor
A-145	Time Cards	4/14/53	R. Osborne
A-146	Badges	5/20/53	J. C. Proctor
A-147	Division 6 Move to Lexington	5/26/53	H. Wainwright

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-148	Transition System Planning and Control Office	7/14/53	J. C. Proctor
A-149	Computation Notebooks	8/3/53	J. C. Proctor
A-150	Reminder of Proper Badge Display	9/24/53	J. C. Proctor
A-151	Lining up at time Clocks	10/19/53	R. Osborne
A-152	Over Loading of Whittemore Bld. Telephone System	10/29/53	J. C. Proctor
A-153	Security Precaution Talks, Reports	10/30/53	J. W. Forrester
A-154	Classified Material Logbooks	11/6/53	J. C. Proctor
A-155	Ditto Procedures	1/12/54	A. Falcone
A-156	A-Editing of Series Reports	1/14/54	J. Bennett
A-157	Library and Document Room Services	2/6/54	D. Helwig
A-158	Changing Work Schedule to All Personal	3/8/54	J. C. Proctor
A-159	Preparing a typed Manuscript	3/10/54	J. Bennett
A-160	Bus Service to Lexington	4/14/54	J. Proctor
A-161	Loss of Personal Property	5/3/54	J. Proctor
A-162	Barta Building Purchasing	5/22/52	H. Proctor
A-163	Division 6 Document Room	7/6/54	D. B. Helwig
A-164	Cancelled		
A-165	Barta Parking	8/13/54	L. T. Brock
A-166	Courses for Staff Members	8/30/54	J. C. Proctor
A-167	Salvage	9/1/54	L. T. Brock
A-168	Visitors to Building F	1/27/55	J. C. Proctor
A-169	Lincoln Travel Procedure	1/31/55	J. Bennett
A-170	Air Travel Between Bedford and Poughkeepsie,	2/21/55	J. C. Proctor
A-171	Division 6 Official Documents	3/10/55	J. Bennett

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>
A-172	Division 6 DR Reports	3/1/55	A. Falcione
A-173	Revised Schedule for IBM Airlines	3/17/55	H. Paine
A-174	Distribution Procedure for Division 6 Memoranda	3/31/55	A. Falcione
A-175	Transportation of Equipment on the IBM Airplan	4/25/55	J. C. Proctor
A-176	Mail to IBM	4/25/55	J. C. Proctor
A-177	Group 66 Organization	5-25-55	R. R. Evertt
A-178			
A-179	Oppointments to Associate Group- Leader	7/7/55	J. Forrester
A-180	Oppointment to Associate Group- Leader	7/7/55	J. Forrester
A-181	Personal	8/1/55	J. W. Forrester
A-182	Personal	8/8/55	J. C. Proctor
A-183	Appointment to Associate Group Leader	8/9/55	J. W. Forrester
A-184	Report Editor	10/18/55	J. C. Proctor
A-185	New Procedure for M-Note distribution and abstracting	10/24/55	F. P. Hazel
A-186	MTC Non-Staff Adminstration	10/27/55	W. A. Hosier J. A. O'Brien

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

6D-52-1

Page 10

<u>No.6A</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
A-187	MTC Non Staff Administration	10-27-55	W. Hosier J. A. O'Brien	U
A-188	Reorganization of Division 6	1-9-56	J. Forrester	U
A-189	Appointment of J. J. Cahill, Jr. as Section Leader in Group 61		D. Israel	U
A-190	Acting Group Leader for Group 63	1-8-56	R. Everett	U
A-191	Appointment to Associate Group Leader	6-29-56	R. Everett	U
A-192	Reassignment of Responsibility Within Division VI	7-18-56	R. Everett	U
A-193	Section Leader Appointment	7-16-56	J. A. O'Brien	U
A-194	Requisitioning Purchase at Barta Building	7-19-56	H. Morley	U
A-195	Section Leader Appointment	7-23-56	B. Morris	U
A-196	Division VI Production Coordina- tion Offices	7-31-56	B. Morriss	U
A-197	Discontinuance of Equipment Pro- gram Services Committee (EPSCOM)	7-31-56	B. Morriss	U

DIVISION 6 - LINCOLN LABORATORY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 LEXINGTON 73, MASSACHUSETTS

Compilation of E Series Memoranda in Division 6 Document
 Room, Building **D-129**.

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-1	Development Schedules	10-23-45	J. W. Forrester	U
E-2	Discussion of the MIT Differential Analyzer, given by Dr. S. H. Caldwell, at a Seminar Sponsored by the Mechanical Engineering Department	11-20-45	K. Tuttle	U
E-3	Lecture Notes - Part I-Mathematical Analysis by Mechanical Methods By. Dr. S. H. Caldwell	5-5-45	K. Tuttle	U
E-4	Differential Equations - Lecture Notes, Part II - Mathematical Analysis by Mechanical Methods by Dr. S. H. Caldwell.	2-1-46	K. Tuttle	U
E-5	Conference Held at Naval Research Laboratories to Discuss Storage Tubes	2-6-46	J. Forrester	U
E-6	Operating Instructions for Square Wave Generator	2-19-46	G. Forbes	U
E-7	Additional Symbols Required for ASCA	2-26-46	P. Tilton	U
E-8	Cockpit Program	3-1-46	J. Forrester	U
E-9	Discussion of Electronic Circuit Program	3-4-46	J. Forrester	U
E-10	Experimental Pulse Coder	3-4-46	L. Wilson	U
E-11	Demonstration of G. E. Oscillographs	3-19-46	J. Forrester	U
E-12	Reports Available for Use on Project 6345	3-20-46	J. Forrester	U
E-13	Block Diagram Group	4-3-46	R. Everett	U

6D-52-1 Page 2

<u>No.</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-14	Mathematics Group	4-12-46	H. Boyd	U
E-15	Use of the Word "Program"	5-6-46	Block Schematic Group	U
E-16	Publications Available for Use on Project 6345	5-9-46	J. Forrester	U
E-17	Transformation of Axes	5-14-46	H. Fahnestock L. Bernbaum	U
E-18	Clock-pulse Generator, One-Mega-cycle, Crystal-Controlled	6-13-46	D. Brown	U
E-19	RCA Selectron Storage Tube	6-18-46	J. Forrester	U
E-20	Scope Reader, Completion Report	7-2-46	D. Drisko	U
E-21	Revision of Code Symbols		Division 9, Subcommittee on Drawing Standards and Codes	U
E-22	Publications Available for Use of Project 6345	7-18-46	J. Forrester	U
E-23	Demonstration Low-Frequency Adder	7-19-46	T. Wimet	U
E-24	Description of Computer System - Type 14	8-12-46	P. Tilton	U
E-25	A Program for the Computer, Switching, and Engineering Divisions	8-8-46	D. Brown	U
E-26	Specifications for the Computer, Switching and Engineering Program	9-16-46	D. Brown	U
E-27	Timing Pulse Generator Type 2	10-4-46	B. Brisko	U
E-28	Pulse Delay and Deshaper	10-4-46	B. Brisko	U
E-29	Storage Tubes, Phone Discussion with Dr. Rajchman, R.C.A.	11-6-46	J. Forrester	U
E-30	CANCELLED			
E-31	Deflection Circuits for Storage Tubes-Present Status of Work	2-20-47	J. Ely	U
E-32	Amplifier for Storage Tube Deflection Circuits Drawing: - B-30329	2-20-47	J. Ely	U

6D-52-1

Page 3

<u>No. 6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-33	Flip-Flop Used as Variable Frequency Square-Wave Generator	2-20-47	J. Ely	U
E-34	Block Diagrams for Whirlwind I	4-29-47	F. Swain R. Everett	U
E-35	Additional and Revised Block Diagrams for Whirlwind I	5-6-47	R. Everett F. Swain	U
E-36	Additional Revisions of Block Diagrams for Whirlwind I	5-15-47	R. Everett F. Swain	U
E-37	Model L Crystal Tester	6-17-47	D. Crawford	U
E-38	Gate and Delayed-Trigger Generator	6-18-47	J. Ely	U
E-39	Testing of A.C. Coupling between Flip-Flop and Buffer and between Matrix Switch and Gate	7-1-47	A. Horton	U
E-40	Third Revision of Block Diagrams for Whirlwind I	6-30-47	R. Everett F. Swain	U
E-41	Sylvania 1N38 Crystal Rectifier	6-30-47	D. Brown	U
E-42	Flip-Flop Circuit	7-2-47	J.J. O'Brien	U
E-43	Tube Life Tests	7-8-47	D. Brown	U
E-44	Duty Cycle for Various Functions	7-8-47	N. Taylor	U
E-45	Time-Pulse Distributor	6-30-47	D. Brown	U
E-46	Fourth Revision of Block Diagrams for Whirlwind I	7-11-47	R. Everett F. Swain	U
E-47	A-C Coupling and 6AS6 Operation	7-16-47	D. Brown	U
E-48	Variable Frequency Clock Pulse Generator	7-18-47	H. Kenosian	U
E-49	Control-line Calculations	7-21-47	J. Ely	U
E-50	6AS6 Operation	8-5-47	D. Brown N. Taylor	U
E-51	Delay Lines in Multiplier	8-5-47	H. Fahnestock	U
E-52	Restorer Pulse Generator	10-24-47	H. Kenosian	U
E-53	WWI Power Estimates	8-8-47	H. Fahnestock	U

6D-52-1		Page 4		
<u>No 6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-54	Feedback Applied to Gated Amplifiers	8-13-47	J. Ely	U
E-55	Register Panel	8-14-47	D. Brown	U
E-56	Notes on the Development of Flip-Flop for Project Whirlwind	8-8-47	L. Wilson	U
E-57	Test of Resistor Tolerances in Flip-Flop Circuit SB-39272-2	8-19-47	J. J. O'Brien	U
E-58	Sweep Calibrator	8-19-47	J. J. O'Brien	U
E-59	Point-to-Point Signal-Cable Termination	8-29-47	D. Brown	U
E-60	Transmission of Gated Signal to Remote Point without Buffer Amplifier	9-16-47	G. Hoberg	U
E-61	Output Amplitude of Gate Tubes Versus Input Pulse Width	9-11-47	E. Sard	U
E-62	Magnetic Recording - Its Use for Storage of Information in Electronic Computers (Abstract of R-124)	9-15-47	E. Rich	U
E-63	Flip-Flop Storage, Position Changes	10-3-47	D. Crawford	U
E-64	Flip-Flop Life Test Rack -- First 500 Hour Run	10-4-47	J. J. O'Brien A. Horton	U
E-65	Potential Plotting with an Electrolytic Tank (Abstract of R-130)	10-6-47	J. Macdonald	U
E-66	A Storage Tube Dielectric Surface for Secondary Electron Control (Abstract of MS. TR)	10-6-47	J. Macdonald	U
E-67	Step Counter for 5-Digit Multiplier (Abstract of R-126)	9-5-47	E. Blumenthal	U
E-68	Whirlwind I Cabling and Installation	10-10-47	H. Fahnestock	U
E-69	Standard Symbols for Other than Vacuum Tube Diodes	10-14-47	C. Watt	U
E-70	Storage Tube Secondary Electron Control with a Magnetic Field (Abstract of R-132)	10-16-47	J. Macdonald	U

6D-52-1 Page 5

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-71	Symposium on Printed Circuits	10-17-47	D. Brown	U
E-72	The Embossing and Anodization of Aluminum for Storage Tube Dielectric Surfaces (Abstract of R-128)	10-21-47	J. Macdonald	U
E-73	Measurements on the C-4999 Series of the SR-1030 Gate Tube	10-22-47	E. Sard	U
E-74	The Physical Characteristics of Aluminum Oxide Dielectric Layers (Abstract of R-131)	10-29-47	J. Macdonald	U
E-75	CANCELLED			
E-76	Coupling between Flip-Flop and Gate Tube	11-19-47	N. Daggett	U
E-77	Blackout in 6AS6 and SR-1030 Gate Tubes	12-1-47	R. Best	U
E-78	Standard Test Equipment Program	12-4-47	J. Ely	U
E-79	Proposed Specifications, Whirlwind I	12-10-47	H. Fahnestock	U
E-80	Circuit Standardization	12-11-47	J. A. O'Brien	U
E-81	Reduction of Pip on Flip-Flop Waveform	12-11-47	N. Daggett	U
E-82	2:1 - 4:1 Binary Frequency Divider	12-12-47	H. Kenosian	U
E-83	Multiplier Life Data	12-12-47	J. J. O'Brien	U
E-84	Model Two Crystal Tester	12-16-47	D. Crawford	U
E-85	Conversion of Shaft Position to Binary Code (Abstract of R-129)	12-16-47	H. Stabler	U
E-86	Single Pulse Synchronizer	12-18-47	H. Kenosian	U
E-87	5-Digit Multiplier: Present Status and Future Plans	12-22-47	N. Taylor	U
E-88	The Function of ACO Carry Register	1-2-48	G. Sumner	U
E-89	Deflection Circuits for Electrostatic Storage Tubes (Abstract of R-120)	11-7-47	J. Ely	U

— copy.

6D-52-1 Page 6

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-90	CANCELLED			
E-91	Standard Bus System	1-6-48	C. Rowland	U
E-92	Reduction of PRF Sensitivity	1-15-48	G. Hoberg	U
E-93	Timing of Whirlwind I (Abstract of R-133)	1-21-48	E. Blumenthal G. Hoberg	U
E-94	Storage Tube Holding Beam Current Density	1-22-48	S. Dodd	U
E-95	Standard Circuits - Gate Generator GG-1	1-28-48	J. A. O'Brien	U
E-96	Ground Circuits for WWI	1-28-48	D. Brown	U
E-97	Storage Tube Power Requirements for WWI	2-3-48	S. Dodd	U
E-98	A Capacitively-Coupled Flip-Flop (Abstract of MS Thesis Report)	1-16-48	A. Horton	U
E-99	Test Equipment: Standard Tube Test Panel	2-16-48	N. Taylor	U
E-100	Life Rack for Sample Storage Surfaces	2-17-48	H. Heydt	U
E-101	Coupling Capacitors in Basic Circuits	2-17-48	C. Watt	U
E-102	Revisions to Shift Operations	2-20-48	E. Blumenthal	U
E-103	Ion Current Measurements in 7Ak7 and 6AG7 Tubes	2-20-48	J. J. O'Brien M. Hayes	U
E-104	Basic Circuits	3-5-48	J. A. O'Brien	U
E-105	Power Requirements for WWI	3-9-48	H. Lee	U
E-106	IN38 Germanium Crystal Diode Rating Tests	3-8-48	R. Ellis	U
E-107	Consolidation of Operation Matrix and Program Timing Matrix	3-24-48	J. A. O'Brien	U
E-108	Sylvania Test Equipment	3-26-48	N. Taylor	U
E-109	6AS6 Vacuum Tube Life Data	4-5-48	J. J. O'Brien	U

6D-52-1

Page 7

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-110	Life Data-6AG7 Tubes of D. C. Flip-Flop Rack	4-14-48	J. J. O'Brien	U
E-111	History of Secondary Emission (Abstract of R-135)	3-30-48	H. Heydt	U
E-112	Tube Failures	4-23-48	J. J. O'Brien	U
E-113	Block Diagram of Master Clock For WWI	4-27-48	D. Brown	U
E-114	Characteristics of Standard Flip-Flop, Basic Circuit F-FI	5-21-48	J. Hunt	U
E-115	Testing and Modification of Bus Driver Circuit BA-1	5-5-48	R. Gould	U
E-116	Life Testing of Surfaces Suitable for Electrostatic Storage Tubes (Abstract of R-137)	4-30-48	H. Heydt	U
E-117	Filament Power Panel	5-6-48	R. Murch	U
E-118	Rack Power Control Unit Model 2	5-6-48	R. Murch	U
E-119	Standard Pin Connections, Power Connector WWI	5-11-48	H. Lee	U
E-120	Power Wiring in WWI: Repetitive Elements	5-12-48	C. Watt	U
E-121	Gate and Delay Unit	5-14-48	H. Kenosian	U
E-122	Variable Frequency Clock Pulse Generator, Model 2	5-19-48	H. Kenosian	U
E-123	Available Test Equipment	5-24	R. Fairbrother	U
E-124	Variable Frequency Clock-Restorer Pulse Source	5-21-48	H. Kenosian	U
E-125	Clock Pulse Control	5-27-48	J. A. O'Brien	U
E-126	Scope Synchronizer	7-21-48	R. L. Best	U
E-127	Comparison of 7AD7 and 6AG7	6-15-48	H. Kenosian	U
E-128	Crystal Rectifiers for WWI	6-2-48	D. Brown	U
E-129	Tube Life in the Deflection-Voltage Generators	6-30-48	D. Brown	U

6D-52-1 Page 8

No.6E	Title	Date	Author	Cls.
E-130	CANCELLED			
E-131	Testing of B-Register/In-Out Register, Digit Panel	6-29-48	R. Gould	U
E-132	Gate-Tube Investigations	7-8-48	M. Hayes	U
E-133	CANCELLED			
E-134	CANCELLED			
E-135	Life Data of 7AD7 Tubes of Five-Digit Multiplier	7-20-48	J. J. O'Brien	U
E-136	Testing of Bus Driver Panel Prototype	7-29-48	R. Gould	U
E-137	Performance of Chains of Gate Tubes	8-5-48	J. Hunt	U
E-138	Transient Analysis of Pulse-Transformer Load	8-13-48	D. Brown	U
E-139	7AK7 Characteristics	8-25-48	J. Hunt A. Susskind	U
E-140	Gas-Discharge Gaps for Data Storage in Electronic Computers (Abstract of R-140 Thesis Report)	8-21-48	R. Markel	U
E-141	CANCELLED			
E-142	Contribution to the Understanding of the Mechanism of Secondary Emission from the Inner Regions of Ionic Crystals (Translation)	8-31-48	M. Daniloff	U
E-143	Numerical Solution of Linear Integral Equations	9-16-48	A. Perlis	U
E-144	Basic Circuits - Revisions	9-16-48	E. Rich	U
E-145	Elimination of Common Ground Leads	9-23-48	J. A. O'Brien	U
E-146	Control Pulse Simulation	9-23-48	M. Hayes	U
E-147	The Error in the Runge-Kutta Method	9-27-48	P. Rabinowitz	U
E-148	The Solutions of Systems of Linear Algebraic Equations by Successive Approximation	9-29-48	E. Reich	U

6D-52-1

Page 9

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls</u>
E-149	History of Storage Tube Program	9-30-48	S. Dodd M. Florencourt	U
E-150	Filament Voltage Regulator for Five-Digit Multiplier	10-5-48	J. Gano	U
E-151	Voltage Regulation of Laboratory Central D-C Power Supplies	10-5-48	C. Wieser	U
E-152	Review of the Work of L.V. Kantorovich and V. I. Krylov "Methods of Approximate Solution of Partial Differential Equations" (Translation)	10-7-48	M. Daniloff	U
E-153	Flip-Flop Operation in WWI Circuits	10-11-48	R. Best	U
E-154	Further Development of Beryllium Evaporation Tubes	10-1-48	M. Florencourt H. Kemplerer	U
E-155	Trigger-Tube Circuits	10-21-48	A. Susskind	U
E-156	"Natural" Frequency of Vibration of Grid of E. S. Storage Tube	10-20-48	M. Daniloff	U
E-157	Natural Frequency of Transverse Vibration of Square Grid of E. S. Tubes	10-25-48	M. Daniloff	U
E-158	Binary Counter Application of the Whirlwind Flip-Flop (Abstract of Report R-152)	10-20-48	H. Kennasian	U
E-159	Block Diagram Revision- Nomenclature	10-28-48	J. Salzer	U
E-160	Report No. 164-30/E, "The Influence of the Resistance of the Oxide Layer upon the Damping of the Vacuum Tube LG11" (Translation)	11-1-48	M. Daniloff	U
E-161	Code for Solution of Simultaneous Equations by Elimination	11-4-48	A. Orden	U
E-162	Extension of Runge Kutta Method to Differential Equations of Order n, Where n is Greater than 4.	11-15-48	P. Rabinowitz	U
E-163	Aged 7AD7 Tubes	11-12-48	J. J. O'Brien	U

6D-52-1

Page 10

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-164	Natural Frequencies of Vibration of the Circular Grid with Central Support of E. S. Storage Tube	11-18-48	M. Daniloff	U
E-165	Summary of Tube Information on Plate Current Deterioration	11-30-48	N. Taylor	U
E-166	Simulation of Empirical Functions by Polynomials	12-3-48	M. Daniloff	U
E-167	A-C Power in WWI	12-8-48	C. Watt	U
E-168	D-C Coupled Flip-Flops	12-17-48	C. Rowland	U
E-169	Electrostatic Storage Tube Demonstrator	2- ---49	J. Rochefort	U
E-170	Codes for the Evaluation of e^{-x} and $\ln x$	1-18-49	T. Hildebrandt	U
E-171	Summary of Report R-134, The Five-Digit Multiplier	1-4-49	R. Rathbone	U
E-172	CANCELLED			
E-173	Storage Tube 56: Construction and Processing	12-21-48	M. Florencourt	U
E-174	Storage Tube 57: Construction and Processing	12-28-48	M. Florencourt	U
E-175	Storage Tube 60: Construction and Processing	12-28-48	M. Florencourt	U
E-176	Changes Required for Clearing Carrys on Divide	1-18-49	R. Mayer J. Salzer	U
E-177	Change Required to Shift Zeros into BR15	1-18-49	R. Mayer J. Salzer	U
E-178	Standard Tests for Reference in Storage Tube Evaluation	1-18-49	S. Dodd C. Corderman	U
E-179	Quality Study of WWI Electron Tubes	1-18-49	R. Ellis	U
E-180	Storage Tube 62: Construction and Processing	1-20-49	M. Florencourt	U
E-181	Research Tube 47: Construction and Processing	1-21-49	M. Florencourt	U

6D-52-1

Page 11

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-182	Storage Tube ST61: Construction and Processing	1-21-49	M. Florencourt	U
E-183	Storage Tube ST69: Construction and Processing	1-19-49	M. Florencourt	U
E-184	Storage Tube ST63: Construction and Processing	1-25-49	M. Florencourt	U
E-185	Beryllium Strip Tubes, Test Results on RT37, RT38, and RT41	12-16-48	J. McCusker	U
E-186	Storage Tube ST68: Construction and Processing	1-27-49	M. Florencourt	U
E-187	Influence of Ions on Holding Beam in Storage Tubes	1-28-49	H. Klemperer	U
E-188	Tube Characteristic Drawings	2-1-49	A. Falcione	U
E-189	A Method of Determining Tube Types for Digital Computers	2-2-49	H. Kenosian	U
E-190	CANCELLED Issued as R-161			
E-191	Research Tube RT50: Construction and Processing	1-31-49	M. Florencourt	U
E-192	Testing of Storage Tube ST69	2-9-49	H. Rowe	U
E-193	Storage Tube ST67: Construction and Processing	2-9-49	M. Florencourt	U
E-194	Vertical Parabola through n+ Points	2-14-49	P. Franklin	U
E-195	Status of Research on Magnetic Recording	2-14-49	G. Cooper	U
E-196	Storage Test ST71: Construction, Processing and Initial Testing	2-14-49	M. Florencourt	U
E-197	An Investigation of Basic Circuit BA-2	2-16-49	H. Frost	U
E-198	Storage Tube ST51: Construction, Processing and Initial Testing	2-16-49	M. Florencourt	U
E-199	Storage Tube ST51: Construction, Processing and Initial Testing	2-18-49	M. Florencourt	U

6D-52-1

Page 12

No.6E	Title	Date	Author	Cls.
E-200	Electrostatic Storage Tubes for Digital Computers and other Information Processing Systems (Abstract of Report R-153)	2-24-49	M. Florencourt	U
E-201	Outlook for Electronic Digital Computers - The Scope of the Engineering Involved (Delivered AIEE Meeting, February 1, 1949) (Abstract Of R-154)	2-24-49	J. Forrester	U
E-202	Coupling Circuits for a Storage-Tube Output-System (Abstract of MS Thesis Report)	11-9-49	C. Campling	U
E-203	CANCELLED			
E-204	Conversion of Binary Pulse Code to Voltage Amplitude (Abstract of MS Thesis Report)	2-24-49	E. Sard	U
E-205	CANCELLED			
E-206	CANCELLED			
E-207	Nomogram for Determining Thickness of Beryllium Film	3-1-49	R. Shaw	U
E-208	Storage Tube ST73: Construction, Processing and Initial Testing	2-28-49	M. Florencourt	U
E-209	Storage Tube ST65: Construction, Processing and Initial Testing	3-4-49	M. Florencourt	U
E-210	Intact Stability Study Programmed for a Digital Computer (Abstract of R-156) MS Thesis Report	3-11-49	C. Adams	U
E-211	A High-Speed Multi-Position Electronic Switch (Abstract Of R-157) MS Thesis Report)	3-11-49	D. Brown	U
E-212	Storage Tube ST57: Construction, Processing and Initial Testing	3-8-49	M. Florencourt	U
E-213	FF Sensitivity in WWI	3-10-49	R. Best	U
E-214	Storage Tube ST77: Construction, Processing and Initial Testing	3-17-49	M. Florencourt	U
E-215	High-Speed Pulse Recording on Magnetic Tape (Abstract of R-159) MS Thesis Report	4-6-49	E. Rich	U

6D-52-1

Page 13

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-216	Holding-Beam Trajectories and Potential Fields near the Storage Surface	3-18-49	H. Rowe	U
E-217	Trouble Location in a Large-Scale Electronic Digital Computer (Abstract of R-162) MS Thesis Report	4-12-49	G. Sumner	U
E-218	A Trouble-Location Scheme for a Digital Electronic Computer (Abstract of R-163) MS Thesis Report	4-21-49	G. Hoberg E. Blumenthal	U
E-219	Electrostatic Storage Control	3-25-49	S. Dodd, R. Mayer, R. Everett, N. Taylor	U
E-220	Demonstration Problems for WWI with Test Storage	3-30-49	G. Cooper	U
E-221	Standard Tests for Storage Tubes	3-30-49	A. Ballard C. Corderman	U
E-222	Low Emission 6AS6 Tubes	4-4-49	H. Frost	U
E-223	Storage Tube ST81: Construction, Processing and Initial Testing	4-5-49	M. Florencourt	U
E-224	Whirlwind I Test Control (Abstract of R-161)	4-5-49	G. Hoberg	U
E-225	Study of Input Output Checking	4-11-49	J. Salzer	U
E-226	Storage Tube ST80: Construction, Processing and Initial Testing	4-15-49	M. Florencourt	U
E-227	Storage Tube ST82: Construction, Processing and Initial Testing	4-20-49	M. Florencourt	U
E-228	Storage Tube ST83: Construction, Processing and Initial Testing	4-20-49	M. Florencourt	U
E-229	Arithmetic Modification of Operations	4-25-49	G. Cooper	U
E-230	Research Tube RT50-1: Construction and Processing	4-25-49	M. Florencourt	U
E-231	Purpose and Operation of Research Tube RT51	4-28-49	H. Rowe	U

6D-52-1

Page 14

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-232	Results of Tests on RT47, RT47-1 and RT50, Beam Analyzer Tubes	5-2-49	J. McCusker	U
E-233	Status of Vacuum Tube Studies	5-4-49	H. Frost	U
E-234	Programming Matrix Multiplication with Insufficient Electrostatic Storage	5-4-49	P. Rabinowitz E. Reich	U
E-235	Description of Whirlwind I Codes	5-6-49	J. M. Salzer C. Adams R. Mayer	U
E-236	Storage Tube ST87: Construction, Processing and Initial Testing	5-3-49	M. Florencourt	U
E-237	Storage Tube ST88: Construction, Processing and Initial Testing	5-3-49	M. Florencourt	U
E-238	Storage Tube ST94: Construction, Processing and Initial Testing	5-5-49	M. Florencourt	U
E-239	Function of the Revised Clock Pulse Control	5-12-49	J. Salzer	U
E-240	Storage Tube ST95: Construction, Processing and Initial Testing	5-16-49	M. Florencourt	U
E-241	Notes on Resistance Measurements of Storage Plates with an Electrometer Circuit	5-17-49	J. Nolan	U
E-242	Migration and Stabilization of Charges on Storage Surfaces	5-17-49	H. Klemperec	U
E-243	Double Reading and Recording Using Eastman Film Units	5-18-49	J. A. O'Brien	U
E-244	Storage Tube ST93: Construction, Processing and Initial Testing	5-19-49	M. Florencourt	U
E-245	Optimum Programming of Square-Matrix Multiplication with Insufficient Electrostatic Storage	5-27-39	E. Reich	U
E-246	Calculation of Correlation Functions by WWI	6-1-49	C. Adams	U
E-247	ESD Output Amplifier and Transmission Line	5-27-49	J. Hunt	U

6D-52-1

Page 15

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-248	A Low-Speed Analogue for Analysis of Flip-Flops (Abstract of R-167) MS Thesis Report	6-22-49	J. Hunt	U
E-249	Deposit of Film in the Glass Necks of Storage Tubes	6-10-49	W. Pickett	U
E-250	Temporary Operations for Whirlwind I	6-17-49	C. Adams	U
E-251	A Dual-Triode Capacitively-Coupled Flip-Flop (Abstract of R-168) MS Thesis Report	6-17-49	M. Hayes	U
E-252	Proposed Test-Control Circuit for Whirlwind I with Test Storage	6-20-49	G. Sumner	U
E-253	The Solution of Power-Network Problems on Large-Scale Digital Computers (Abstract of R-169)	6-28-49	P. Fox	U
E-254	Analysis and Design of Sampled-Data Control Systems (Abstract of R-170) A Doctorate Thesis Report	6-23-49	W. Linvill	U
E-255	Basing Procedure E 150	6-27-49	J. Clough R. Byram	U
E-256	Washing Procedures - Series W	6-28-49	T. Parkins	U
E-257	Modification of ACQ Panel	7-5-49	J. Salzer	U
E-258	Function of the Program Counter End Carry	7-6-49	C. Adams	U
E-259	Classified Bibliography on Conversion between Analogue Quantities and Binary Numbers	7-14-49	A. Susskind	U
E-260	Cases of Critical Timing	7-25-49	J. Salzer	U
E-261	The History of the Theories and Development of High-Vacuum Pumps and Some Methods of Measuring very High Vacua	7-22-49	J. McCusker	U
E-262	Crystal Limiter	7-25-49	K. McVicar	U
E-263	Modification of 2:1-4:1 Binary Frequency Divider	7-25-49	H. Kenosian	U

6D-52-1

Page 16

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-264	The History of the Development of High-Vacuum, Hot-Cathode, Electrostatic Electron Guns	7-25-49	J. Rochefort	U
E-265	Control of Tube Components	8-1-49	R. Shaw T. Clough	U
E-266	Comments on the Testing and Dissection of ST101-1	7-25-49	C. Corderman	U
E-267	Time Saved by Simultaneous Operation of AE and ES	7-29-49	R. Mayer	U
E-268	Storage Tube ST96: Construction, Processing and Initial Testing	8-1-49	M. Florencourt	U
E-269	Storage Tube ST97: Construction, Processing and Initial Testing	8-1-49	M. Florencourt	U
E-270	Storage Tube ST98: Construction, Processing and Initial Testing	8-1-49	M. Florencourt	U
E-271	Storage Tube ST101: Construction, Processing and Initial Testing	8-9-49	M. Florencourt	U
E-272	Storage Tube ST102: Construction, Processing and Initial Testing	8-9-49	M. Florencourt	U
E-273	Storage Tube ST 105: Construction, Processing and Initial Testing	8-9-49	M. Florencourt	U
E-274	Storage Tube ST106: Construction, Processing and Initial Testing	8-10-49	M. Florencourt	U
E-275	Storage Tube ST107: Construction, Processing and Initial Testing	8-10-49	M. Florencourt	U
E-276	Storage Tube ST 108: Construction, Processing and Initial Testing	8-10-49	M. Florencourt	U
E-277	Storage Tube ST109 and 110: Construction, Processing and Initial Testing	8-11-49	M. Florencourt	U
E-278	Equipment for Special Display	8-11-49	E. Rich	U
E-279	Storage Tube Life Testing	7-28-49	C. Corderman	U
E-280	Storage Tube ST103: Construction, Processing and Initial Testing	8-19-49	M. Florencourt	U

6D-52-1

Page 17

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-281	Multivibrator Frequency Divider	8-22-49	R. Best	U
E-282	Storage Tube ST111: Construction, Processing and Initial Testing	8-29-49	M. Florencourt	U
E-283	Storage Tube ST112: Construction, Processing and Initial Testing	8-26-49	M. Florencourt	U
E-284	High Velocity Electron Gun--- Assembly A-160	8-30-49	G. Kaplan	U
E-285	Electron Adding Gun HG3-2 -- Assembly A-150	8-29-49	G. Kaplan	U
E-286	Investigation of the Stabilizing Curve of the Storage Tube with the High-Speed, Write-Read Unit	8-29-49	N. Zimbel J. Rochefort	U
E-287	Methods of Cutting Mica	8-31-49	I. Paulsen	U
E-288	Signal Plate Driver	9-2-49	G. Hoberg	U
E-289	Gun Driver	9-2-49	G. Hoberg	U
E-290	A Built-In Monitor System for WWI Electrostatic Storage Circuits	9-2-49	G. Hoberg	U
E-291	Storage Registers for WWI	9-14-49	R. Everett S. Dodd	U
E-292	Storage Tube ST113 and ST115: Construction, Processing and Initial Testing	9-12-49	M. Florencourt	U
E-293	Standard Test Equipment: Evalua- tion	9-22-49	H. Kenosian	U
E-294	Read-Gate Generator and Holding- Gate Generator	9-2-49	G. Hoberg	U
E-295	Test Program Number I, Computer Complementing	10-17-49	C. Adams	U
E-296	Test Program Number II, Opera- tion Matrix Check	10-13-49	C. Adams	U
E-297	Test Program Number III, Coun- ting in AC	10-13-49	C. Adams	U
E-298	Test Program Number IV, Counting in AC	10-13-49	C. Adams	U

6D-52-1

Page 18

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-299	Test Program Number V, Shifting in AC	10-13-49	C. Adams	U
E-300	Display Program Number I: Family of Parabolas and Powers of X	10-17-49	G. Cooper	U
E-301	Notes on Making Tungsten Springs	9-28-49	I. Paulsen	U
E-302	Storage Tube Deflection Pattern	10-5-49	C. Adams	U
E-303	Voltage Calibrator	9-9-49	H. Kenosian	U
E-304	Display Program Number II: Second Order Differential Equation	10-25-49	G. Cooper	U
E-305	Results of Tests on RT59	10-19-49	H. Rowe	U
E-306	Basing Procedure	10-21-49	R. Angus	U
E-307	Development of Storage Tube Circuits	10-27-49	S. Dodd	U
E-308	Temporary Deactivation of Storage Tube Cathodes under Stand-by Conditions	10-31-49	Storage Tube Group Compiled by H. Klemperer	U
E-309	Initial Testing and Reconstruction of ST114 and ST114-R1	10-26-49	M. Florencourt	U
E-310	Automatic Control Box for TV Demonstrator	10-31-49	M. Florencourt	U
E-311	The Study of Non-Linear Servomechanisms with the Aid of an Automatic Digital Computer	11-28-49	S. Pierson	U
E-312	Calibration of Vacuum Measurements in Storage Tubes	12-2-49	H. Rowe	U
E-313	Temporary Operation qs - Switch Check: and Test Program Number VI Switch Check	12-2-49	C. Adams	U
E-314	Display Program Number III -- Target-Seeking Simulation	12-8-49	C. Adams	U
E-315	Test Results on RT66 and RT 91	12-12-49	H. Rowe	U
E-316	The Significance of a Shorter Beam-Length for the Whirlwind Storage Tube -- Part I: Experimental Results with RT64	12-21-49	H. Klemperer H. Rowe	U

6D-52-1

Page 19

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-317	Flip-Flop Balance Checking in WWI	2-23-50	G. Sumner	U
E-318	Tests on 3JPI Cathode Ray Tube	12-30-49	H. Rowe	U
E-319	The Significance of a Shorter Beam Length for the Whirlwind Storage Tube - - Part II: Fundamental Limitations on Spot Size and Current Density	1-3-50	H. Klemperer	U
E-320	Display Program Number IV: Non-Homogeneous Second Order Differential Equation	1-30-50	C. Adams	U
E-321	Storage of Pulse-Coded Information (Abstract of MS Thesis Report)	1-10-50	A. Lephakis	U
E-322	Tests on ST110	1-18-50	R. Sisson	U
E-323	Standard Operating Conditions for 100-Series Whirlwind Electrostatic Storage Tubes	1-19-50	S. Dodd R. Everett	U
E-324	Characterics of 5UP and 7 GP Electron Guns	1-24-50	H. Rowe	U
E-325	Mosaic Characteristics of the MIT Storage Tube	1-26-50	C. Corderman	U
E-326	Power Distribution, Variable-Voltage Circuits, WWI	1-25-50	H. Lee	U
E-327	Standard Tests for Storage Tubes, Second Revision	1-25-50	M. Florencourt	U
E-328	Pulse Transformers and Interstage Coupling in Whirlwind I	1-31-50	C. Rowland	U
E-329	Techniques for Using Standard Automatic Subroutines	2-10-50	C. Adams	U
E-330	Single Doppler Station	2-27-50	P. Franklin	C
E-331	Doppler Stations	3-2-50	P. Franklin	C
E-332	Forming End-of-Block Spaces on Film in Normal Operation	3-21-50	C. Adams R. Mayer	U
E-333	Whirlwind I Order Code as of March, 1950	3-24-50	C. Adams	U

6D-52-1

Page 20

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-334	Doppler Station	3-22-50	P. Franklin	C
E-335	Operation of the WWI Storage Tube Power Supply Control System	3-22-50	G. Watt	U
E-336	Secondary Emission from Beryllium Surfaces at low Incident Electron Energies (Abstract of MS Thesis Report)	4-3-50	H. Rowe	U
E-337	Accelerated Life Test for Cathode Interface in Receiving Type Tubes (A paper presented at the M.I.T. Conference on Physical Electronics March 30, 1950.)	4-3-50	E. Rich	U
E-338	Test Results of L9B and F8B Productions of 7AD7 Tubes	4-11-50	H. Frost	U
E-339	Single Doppler Station	4-7-50	P. Franklin	C
E-340	Current Density Distribution and Spot Diameter in Cathode Ray Beam	4-17-50	A. Tanguay H. Rowe	U
E-341	Single Doppler Station	4-18-50	P. Franklin	C
E-342	An Investigation of the Possibilities for Improving Pentode-Gate-Tube Circuits (Abstract of MS Thesis Report)	4-26-50	G. Rowland	U
E-343	Computer Input-Tape Preparation	5-25-50	F. Foss	U
E-344	A Method of Test Checking an Electronic Digital Computer (Abstract of MS Thesis Report)	6-1-50	G. Cooper	U
E-345	The Transition Region between Negative and Positive Regions on Storage Tube Surfaces	6-15-50	H. Rowe	U
E-346	Measurements on Electron Beams in Storage Tubes (Summary of R-175 A MS Thesis Report)	6-6-50	J. McGusker	U
E-347	CANCELLED			
E-348	Winding Tungsten Springs -- SA-33325	6-9-50	I. Paulsen	U

6D-52-1		Page 21		
<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-349	Operation and Maintenance of Polariscope	6-9-50	R. Shaw	U
E-350	Construction of a Silver Evapo- ration Target Assembly	6-6-50	J. Palermo	U
E-351	Winding Tungsten Heaters -- SB-40170		I. Paulsen	U
E-352	Compensation of Deflection De- focusing in Storage Tubes	6-15-50	H. Klemperer	U
E-353	Signal-Plate Assembly for ST25	4-13-48	R. Shaw	U
E-354	CANCELLED			
E-355	CANCELLED			
E-356	Equipment and Techniques for In- serting Information into WWI	7-12-50	C. Adams	U
E-357	Test Program Number VII, - Alarm Circuits Check	7-28-50	J. Salzer	U
E-358	The Technique for Evaporation of a Beryllium Mosaic	8-2-50	T. Clough	U
E-359	ES Test Programs	9-25-50	G. Cooper	U
E-360	Vacuum Tube Life Experience (Abstract and Appendix of E-179)	8-8-50	H. Frost	U
E-361	Additions to the Whirlwind I Order Code (October 1949 to August 1950)	8-10-50	C. Adams	U
E-362	Storage Devices in Computing Systems, Text of an M.I.T. E.E. Department, Colloquium Talk	5-3-50	R. Everett	U
E-363	Washing Procedures - Series W	8-15-50	T. Parkins J. Palermo	U
E-364	Construction of Beryllium Eva- poration Boiler	11-29-50	T. Parkins R. Adams	U
E-365	Part I: Construction of a Collector Screen for the WWI Storage Tube Part II: Construction of a Mesh Mask for the Beryllium Evapora- tion Tube	10-31-50	R. Shaw T. Parkins	U

6D-52-1

Page 22

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-366	The Project Whirlwind High-Vacuum Systems	3-2-51	T. Clough	U
E-367	Construction of a Beryllium-Evaporation Target Assembly	8-17-50	J. Palermo	U
E-368	The Distribution of Capacitance on the Beryllium Mosaic Surface	8-22-50	A. Tanguay	U
E-369	Construction Technique of Electron Guns for the WWI Storage Tube	8-24-50	G. Kaplan	U
E-370	Principle of Operation of Polaroscope	8-28-50	R. Shaw	U
E-371	Splicing Nonex to Pyrex Glass to Form a Graded Seal	9-7-50	W. Pickett	U
E-372	Glass Construction of Two-Arm Envelope	9-7-50	W. Pickett	U
E-373	18-Pin Stem Construction	9-7-50	W. Pickett	U
E-374	Heading of Tungsten Wire	9-7-50	W. Pickett	U
E-375	10-Pin Construction	9-7-50	W. Pickett	U
E-376	Preparation of Arms for the Storage Tube Envelope	9-7-50	W. Pickett	U
E-377	Glass Construction of Single Arm Envelope	9-7-50	W. Pickett	U
E-378	Forming Right Angle and U-Bends	9-7-50	W. Pickett	U
E-379	A Coincident-Current Magnetic Memory Unit (Abstract of R-192, A MS Thesis Report)	9-11-50	W. Papian	U
E-380	Operation of Interim Tape Reader Equipment	9-12-50	G. Watt	U
E-381	Dissection, Cleaning and Reassembling of a Glass Vacuum System	10-6-50	L. Nelson T. Parkins	U
E-382	Glass Construction of Evaporation Tube Envelope	9-25-50	W. Pickett	U
E-383	Use of Wet Slicing Machine	9-29-50	W. Pickett	U

6D-52-1

Page 23

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-384	An Investigation of the Effect of Angle of Beam Incidence and Beam Deflection on Electrostatic Storage Tube Performance (Abstract of MS Thesis Proposal)	9-25-50	K. McVicar	U
E-385	Dynamic Determination of Usable Storage Densities in Storage Tubes (Abstract of MS Thesis Proposal)	9-25-50	H. Frost	U
E-386	CANCELLED			
E-387	Interim Equipment and Techniques for Input, Output, and Control for WWI	10-24-50	C. Adams	U
E-388	CANCELLED			
E-389	Construction of a WWI Storage Assembly	10-31-50	J. Palermo	U
E-390	CANCELLED			
E-391	Operation Matrix: Change Procedure	10-26-50	R. Mayer	U
E-392	Crystal Diode Investigation -- Initial Results	11-2-50	F. Irish	U
E-393	Marginal Checking System, WWI	12-6-50	R. Hunt	U
E-394	Built-In Checking of Control Switch and Operation Matrix	12-22-50	H. Ziegler	U
E-395	Cathode Interface Impedance and its Effects in Aged Vacuum Tubes	1-2-51	H. Frost	U
E-396	Crystal Diode Life Experience in WWI Computer Circuits (Paper Delivered at Conference on Electron Tubes for Computers at Atlantic City, New Jersey December 11, 12, 1950)	1-2-51	H. Frost	U
E-397	Some Basic Relay Pulse Circuits of General Interest	1-18-51	C. Watt	U
E-398	CANCELLED			
E-399	Comparison Between IN56A and D-359 Crystals	2-21-51	E. Rich	U

6D-52-1

Page 24

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-400	The Vacuum Tube Pulse Current Testers	3-15-51	H. Frost	U
E-401	Arc Suppression for Small Electrical Contacts	3-19-51	R. Hunt	U
E-402	Circuitry, Relay Timing, and Operation of WWI Tape Output Equipment	4-10-51	J. Hanson	U
E-403	Television Demonstration Unit, Part I	9-20-51	M. Mann	U
E-404	Plan for the Second Bank of Storage	4-4-51	R. Read	U
E-405	Initial Testing of a Computer Electrostatic Storage System (Abstract of R-195, a MS Thesis)	4-23-51	R. Read	U
E-405 ⁶	Preliminary Test on the Four-Core Magnetic-Memory Array	6-18-51	W. Papian	U
E-407	Electrolytic Corrosion as a Possible Future Source of Trouble Affecting WWI Reliability	6-25-51	J. Hanson	U
E-408	Transistor Conference, June 12, 1951	7-3-51	J. A. O'Brien	U
E-409	Rational Selection of Vacuum Tube Types for Computer Applications	7-6-51	H. Frost	U
E-410	The Complementary Circuit Method for Determination of Interface Resistance	7-23-51	H. Frost	U
E-411	Additional ES Test Programs	7-24-51	G. Cooper	U
E-412	Washing Procedures - Series W	8-7-51	R. Maglio G. DiPietro	U
E-413	Selection Systems for Magnetic Core Storage	8-7-51	R. Everett	U
E-414	Tracking a Target Moving in a Straight Line with Constant Velocity	8-13-51	K. Bush	C
E-415	CANCELLED			

6D-52-1

Page 25

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-416	Investigation of Delay Line Failures as a Factor in WWI Reliability	8-13-51	J. Hanson	U
E-417	CANCELLED			
E-418	The Development of an R-F Readout System for Electrostatic Storage Tubes - Part I General Considerations	10-2-51	W. Nolan	U
E-419	The Development of an R-F Readout System for Electrostatic Storage Tubes - Part The Initial WWI System	9-4-51	W. Nolan	U
E-420	Some Observations upon a Method of Determination of Oxide-Coated Cathode Operating Temperatures	9-27-51	H. Frost	U
E-421	Transistor Bibliography	8-28-51	N. Jones	U
E-422	Rectangular-Loop Magnetic Core Materials	9-4-51	W. Papian	U
E-423	A Check List on the Construction of a Beryllium Evaporation Boiler	9-4-51	T. Parkins R. Adams	U
E-424	CANCELLED			
E-425	A Discussion of Soft Solders and Soldering	9-13-51	M. Manderson	U
E-426	An Investigation of Soldering Problems	9-14-51	M. Manderson C. Watt	U
E-427	Initial Standard Tests (Pretest) for WWI Storage Tubes	9-26-51	C. Corderman	U
E-428	Proposed New Order <u>dm</u> (<u>gm</u>), Difference of Magnitudes	10-5-51	R. Mayer	U
E-429	Proposed New Orders <u>cl</u> (<u>gc</u>), Cycle Left	10-8-51	R. Mayer	U
E-430	Order <u>sf</u> , Proposed Modification Involving AR	10-8-51	R. Mayer	U
E-431	500-Volt Power Supplies Used in the Whirlwind Computer	10-17-51	W. Nolan	U

6D-52-1

Page 26

No.6E	Title	Date	Author	Cls.
E-432	A Study of the Holding Beam in the M.I.T. Electrostatic Storage Tube (Abstract of R-198, A MS Thesis Proposal)	10-24-51	J. Ely	U
E-433	Electronic Digital Machines for High-Speed Information Searching (Abstract of R-200, A MS Thesis Proposal)	12-1-51	P. Bagley	U
E-434	Burroughs Test Equipment	10-31-51	R. Best	U
E-435	Study of a Transistor Blocking Oscillator	11-23-51	J. Jacobs, N. Jones, D. Brown	U
E-436	Bibliography on Components and Circuit Fabrication Techniques	12-12-51	B. Paine	U
E-437	Procedure for Fabricating Delay Lines from Bulk Cable	11-29-51	J. Hanson	U
E-438	Binary Counting with Magnetic Cores	12-6-51	D. Buck	U
E-439	Location of Operations dm (cm) and cl (ql); Permanent Operation <u>ex.</u>	12-20-51	R. Mayer C. Adams	U
E-440	WVI Operating Speed	12-21-51	R. Mayer	U
E-441	Standardized Transistor Parameter Measurements	1-3-52	N. Jones J. Jacobs	U
E-442	Analysis of Vacuum Tube Failure Data	1-18-52	H. Frost L. Sutro	U
E-443	Interface Formation in 6AG7 Tubes	1-25-52	H. Frost	U
E-444	Changes in Design of the rc and rd Orders	1-31-52	E. Rich	U
E-445	Improvements to the Model 2 Crystal Tester	2-1-52	B. Paine	U
E-446	Operations O-5, Revisions	2-4-52	R. Mayer	U
E-447	Transistor Parameter Variations	2-5-52	J. Jacobs N. Jones	U
E-448	Variation of Transistor Collector Resistance Due to Self Heating	2-5-52	J. Jacobs N. Jones	U

6D-52-1

Page 27

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-449	The Cadac Computer	2-15-52	E. Emerson A. Werlin	U
E-450	Whirlwind I Terminal Equipment (Talk Given at Digital Computer Laboratory Seminar on January 25, 1952)	2-21-52	E. Rich	U
E-451	Variation of Transistor Collector Resistance with Collector Voltage	3-3-52	R. Callahan N. Jones	U
E-452	Relay and Contact Life Test	3-3-52	R. Hunt	U
E-453	Error Diagnosis Subroutines for Use with Standard Single Length Programs	3-17-52	D. Combelic	U
E-454	Nondestructive Sensing of Magnetic Cores	3-24-52	W. Frank D. Buck	U
E-455	Change in Standard Transistor Collector Current Rise and Fall Time Measurement	3-23-52	N. Jones	U
E-456	Block Diagram of Control for Printers and Paper Tape Units for the Final In-Out System	4-2-52	P. Stephan	U
E-457	Current-Density Distribution in the Fringe Region of a Focused Electron Beam	4-8-52	C. Corderman	U
E-458	The Use of Boolean Algebra in Logical Design	4-15-52	I. Reed R. Jeffrey	U
E-459	CANCELLED			
E-460	The Ferroelectric System <i>switch</i>	4-16-52	D. Buck	U
E-461	A High-Speed Two-Transistor Flip-Flop	4-24-52	R. Callahan J. Jacobs	U
E-462	Design of a Digital Computer by Boolean Algebra	5-20-52	I. Reed R. Jeffrey	U
E-463	Introduction to the Theory of Semiconductors I, Some Remarks on Quantum Mechanics	6-24-52	D. Eckl	U
E-464	A Squareness Ratio for Coincident- Current Memory Cores	7-17-52	D. Brown	U

6D-52-1		Page 28		
<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-465	CANCELLED			
E-466	Operation of the In-Out Element	2-26-54	E. Rich G. Young	U
E-467	CANCELLED			
E-468	Introduction to the Theory of Semi-conductors II, A Brief Discussion of Statistical Mechanics	7-28-52	D. Eckl	U
E-469	Visual Display Facilities in the Final WWI Input-Output System	8-5-52	J. Forgie	U
E-470	Paper on Ferromagnetic and Ferromagnetic Memory Devices <i>electric</i>	8-6-52	W. Papian	U
E-471	Reliability of Multiple Computers	8-13-52	R. Everett	C
E-472	The Mirror: A Proposed Simplified Symbol for Magnetic Circuits	8-14-52	R. Mayer	U
E-473	Input Program, September, 1952	8-21-52	C. Adams	U
E-474	Introduction to the Theory of Semiconductors III, Conduction in Metals: The Field-Free Case	8-28-52	D. Eckl	U
E-475	A Magnetic-Core Gate and its Application in a Stepping Register	10-30-52	G. Briggs	U
E-476	CANCELLED			
E-477	Magnetic and Dielectric Amplifiers	8-28-52	D. Buck	U
E-478	Seac Logic and Circuits	7-31-52	R. Best J. Jacobs	U
E-479	Basic Conversion Program, September, 1952	9-4-52	M. Rotenberg	U
E-480	Experience with General Electric GLIA Transistors	9-17-52	J. Jacobs	U
E-481	Toggle Switch Inputs and Indicator Light Outputs as External Units	9-17-52	G. Young	U
E-482	Operation of Magnetic Tape Units	9-11-52	B. Morris	U

6D-52-1

Page 29

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-483	Results of Transistor Thermal Experiments	9-17-52	R. Schmidt	U
E-484	Policy on Outside Users of Whirlwind I	9-29-52	C. Adams	U
E-485	Transistor Test Equipment	10-14-52	E. Cohler	U
E-486	Data Screening; Division 6 Quarterly Report of August, 1952	9-30-52	R. Walquist	C
E-487	Notes on the Logical Design of the IBM 701 Computer	10-8-52	R. Mayer	C
E-488	Delta _{ns} In Ceramic Array #1	10-14-52	E. Guditz	U
E-489	Oscilloscope Calibrator	10-15-52	B. Smulowicz	U
E-490	An Octal-Decimal Slide Rule	10-14-52	R. Mayer	U
E-491	Hysteresis Loop Characteristics of MF-1118 for Different Temperatures	10-16-52	C. Morrison	U
E-492	Introduction to the Theory of Semiconductors IV, Quantum States in Crystals. The Bound Electron Case	10-22-52	D. Eckl	U
E-493	CANCELLED			
E-494	Modification of the Dumont 304-H Oscilloscope to Reduce Drift Encountered in WWI Display	10-29-52	D. Neville	U
E-495	CANCELLED			
E-496	Instructions and Specifications for the Manufacture of 3:1 and 1:1, 0:1 Microsecond Pulse Transformers on Ferrite Ring Cores	11-3-52	R. Hunt	U
E-497	External Control Box for WWI Display Oscilloscopes	11-5-52	D. Neville	U
E-498	An Electronic Holding Circuit	11-12-52	J. A. O'Brien	U
E-499	Operation of the Block Transfer Orders	11-13-52	B. Morriss	U
E-500	Switch-Core Analysis I	11-4-52	A. Katz E. Guditz	U

6B-52-1

Page 30

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-501	Pretest Procedures for 700-Series Storage Tubes	11-20-52	G. Corderman D. Fisher	U
E-502	Computer Program Synthesis Based on Statistical Communication Theory (Abstract of R-210, A MS Thesis Proposal)	11-20-52	A. Katz	U
E-503	A Magnetic Matrix Switch and Its Incorporation into a Coincident-Current Memory (Abstract of R-211, A MS Thesis Proposal)	11-20-52	K. Olsen	U
E-504	Ferroelectrics for Digital Information Storage and Switching (Abstract of R-212, A MS Thesis Proposal)	11-20-52	D. Buck	U
E-505	A High-Speed Counter Employing Transistors (Abstract of R-214, A MS Thesis Proposal)	11-20-52	J. Jacobs	U
E-506	Effects of Ions in the M.I.T. Electrostatic Storage Tube (Abstract of MS Thesis Proposal)	11-24-52	H. Jacobowitz	U
E-507	Triggering Requirements for a Single Transistor Flip-Flop	1-28-53	N. Pribble	U
E-508	A High-Speed Flip-Flop Circuit Using Junction Transistors (Abstract of a MS Thesis Proposal)	11-24-52	A. Heien	U
E-509	Comparison of Single Address Order Times for Computers Using IBM, NBS, and WW Types of Arithmetic Elements with Magnetic Memory	12-9-52	J. Jacobs	C
E-510	Design of Low-Power Pulse Transformers Using Ferrite Cores (Abstract of R-217, A MS Thesis Proposal)	11-24-52	R. Robinson	U
E-511	The Four-Digit Transistor Accumulator	12-4-52	R. Callahan D. Eckl	U
E-512	A Method for Acceptance Testing of Ferrite Core Production Lots	12-4-52	P. Blatzer	U
E-513	CANCELLED			

6D-52-1

Page 31

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-514	Electronic Selection and Control of Read-Record Heads of Magnetic-Tape Units (Abstract of R-219, A MS Thesis Report)	12-15-52	J. A. O'Brien	U
E-515	The Technique for Evaporation of a Beryllium Mosaic	12-16-52	T. Clough	U
E-516	Comprehensive System of Service Routines (CS): Errata, Clarifications and Cautions.	4-28-53	H. Uchiyamada	U
E-517	A Transistor Pulse Standardizer	1-21-53	E. Cohler	U
E-518	New Metallic Cores from Magnetic Metals	1-2-53	A. Hughes	U
E-519	General Ceramics Materials, MF-1348B and MF-1359B	1-5-53	D. Brown	U
E-520	The WWI Auxiliary Magnetic Drum System	1-9-53	J. Forgie	U
E-521	The Low-Speed 2 ⁶ Counter, Model II	1-29-53	H. Platt	U
E-522	Non-Linear Recursive Filters	1-15-53	G. Cooper	U
E-523	Core Drivers -- Model V and Model VI	2-10-53	H. Boyd	U
E-524	CANCELLED			
E-525	Normalized Flip-Flop Chart	2-17-53	H. Boyd	U
E-526	High-Speed (5965) Flip-Flop	2-24-53	H. Boyd	U
E-527	Whirlwind Power Supply Control System Additions for the Control of Power to the M.I.T.E., Buffer Drum and Auxiliary Drum Systems	2-19-53	G. Sandy	U
E-528	Proposal for a High-Speed Random-Access Buffer Storage of Small Capacity	2-24-53	M. Epstein	C
E-529	Matrix Driving with Unidirectional Pulses		D. Buck	U
E-530	Magnetic Materials for High-Speed Pulse Circuits (Presented at A.I. E.E. Winter General Meeting, New York January, 1953)	2-27-53	D. Brown	U

6D-52-1

Page 32

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-531	Driving Current Margins on Memory Test Setup I*	3-6-53	S. Fine	U
E-532	Nucleation of Domains of Reverse Magnetization and Switching Characteristics of Magnetic Materials	3-9-53	N. Menyuk J. Goodenough	U
E-533	Effect of Current Pulse Duration on the Pulse Response of M. T. C. Memory Cores	3-10-53	P. Baltzer	U
E-534	Transistor Grounded-Collector Coupling Circuit	3-23-53	S. Olsen W. Klein	U
E-535	Programmed Generation of Marginal Checking Voltage	3-13-53	K. Olsen R. Mayer	C
E-536	Diagnostic Programs and Marginal Checking in the Whirlwind I Computer (Text of Paper Presented at the New York Convention of the Institute of Radio Engineers on March 24, 1953)	3-26-53	N. Daggett E. Rich	U
E-537	1953 Test Storage Input Program	4-7-53	J. Frankovich	U
E-538	CANCELLED			
E-539	An Approach to a Rationale in Ferrite Synthesis: Evaluation of Magnetic Moments	4-28-53	L. Gold	U
E-540	A Fast Core-Tube Register	4-27-53	K. Olsen R. Pfaff	U
E-541	Transistor Collector Characteristic Curve Plotter	11-8-53	L. Riley I. Aronson D. Eckl	U
E-542	Timing Diagrams for MTC Control	5-5-53	R. Hopkins	U
E-543	Final Specifications of the High-Speed Flip-Flop	5-12-53	H. Boyd	U
E-544	Circuit for Measuring Switch Time, Rise Time, Etc. (Switch-Time Comparator)	5-11-53	B. Gurley	U
E-545	CANCELLED			
E-546	Inspection Trip of Computers on the Atlantic Seaboard	5-25-53	W. Ayer	C

6D-52-1

Page 33

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-547	Proposed High Input-Impedance Trigger Circuitry for High-Speed WWII Flip-Flop	5-22-53	B. Remis	U
E-548	Preliminary Report -- Temperature Effects in MTC-Type Ferrite Cores	6-26-53	J. Childress	U
E-549	Basic Conversion Program	7-2-53	H. Briscoe	U
E-550	Open-Circuit Impedance Represen- tation of Transistors	7-9-53	N. Jones	U
E-551	CANCELLED			
E-552	CANCELLED			
E-553	CANCELLED			
E-554	CANCELLED			
E-555	CANCELLED			
E-556	A Study of a Two Transistor Flip- Flop	4-24-53	E. Gohler	U
E-557	The Design of a Two Transistor Saturating Flip-Flop	7-9-53	E. Gohler	U
E-558	556 Drum Input Program, May, 1953	5-26-53	F. Helwig	U
E-559	A Free Energy Model for the Hysteresis Loop	6-16-53	A. Loeb	U
E-560	Status of XD-1 Internal Logical Design	8-17-53	R. Mayer	C
E-561	Differential Video Probe	6-19-53	H. Zieman	U
E-562	Organization and Planning of the AN/FSQ-7 (XD-1) Combat Information Central Program	6-30-53	N. Taylor	C
E-563	CANCELLED			
E-564	CANCELLED			
E-565	CANCELLED			
E-566	CANCELLED			
E-567	CANCELLED			

6D-52-1

Page 34

<u>No.6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-2000	Introduction to Coding: Part I of II Parts	9-29-49	D. Israel	U
E-2001	Approach Patterns	10-6-49	W. Welchman	U
E-2002	CANCELLED			
E-2003	A Coded Program for the Private- Line	10-19-49	D. Israel	U
E-2004	Notes on Aircraft Navigation and Guidance	11-22-49	W. Welchman	U
E-2005	Information Required about Air- craft Likely to Fly in an All- Weather System after 1962	11-29-49	W. Welchman	U
E-2006	Approach Sequencing	12-1-49	P. Franklin	U
E-2007	Suggestion for Further Study of Azimuth Controlled Approach	12-30-49	W. Welchman	U
E-2008	Implications of Present System of Air Traffic Control	2-15-49	D. Israel	U
E-2009	Approach from High Altitudes	2-17-50	W. Welchman	U
E-2010	Azimuth Progress Control	1-23-50	A. Orden	U
E-2011	Programming for Helix Approach	3-16-50	D. Israel	U
E-2012	Characteristics of Private-Line Communications	3-24-50	F. Foss	U
E-2013	Devices for Conversion Between Analog Quantities and Binary Pulse-Coded Numbers (Abstract of MS Thesis Proposal, and R-176)	6-6-50	A. Susskind R. Sisson	U
E-2014	Computer Programming for Airport Approach Along a Whiffletree Type of Path System	6-20-50	A. Orden	U
E-2015	Error Correction in Orbital Flight	7-13-50	A. Orden	U
E-2016	Air Traffic Control	7-17-50	D. Israel	U
E-2017	Treatment of Digital Control Systems and Numerical Processes in the Frequency Domain (Pro- posal for Sc.D. Thesis)	12-5-50	J. Salzer	U

6D-52-1

Page 35

<u>No. 6E</u>	<u>Title</u>	<u>Date</u>	<u>Author</u>	<u>Cls.</u>
E-2018	Subroutines Useful in Coordinate Conversion	1-10-51	J. Salzer	U
E-2019	Analysis of Instability in the Numerical Solution of a Differential Equation	3-15-51	J. Salzer W. Welchman	U
E-2020	Sampled-Data Control Systems Studied Through Comparison of Sampling with Modulation	5-2-51	W. Linvill	U
E-2021	Navigational Definitions	4-3-51	C. Gaudette	U
E-2022	Air Intercept Using a Whirlwind Type Computer	5-25-51	R. Everett	C
E-2023	A First Proposal for the Computer System with Cape Cod Muldar Experiment.	6-22-51	R. Walquist	C
E-2024	Light Gun	6-28-51	H. Kirshner	U