

Division 6 - Lincoln Laboratory  
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**SUBJECT:** SUMMARY OF LINCOLN LABORATORY TECHNICAL INFORMATION RELEASES  
PERTAINING TO SAGE SYSTEM ISSUED BY THE PRODUCTION COORDINA-  
TION OFFICE (CUMULATIVE LIST THROUGH 7 JULY 1955)

**To:** T.I.R. Distribution List

**From:** E. D. Lundberg

**Date:** 13 July 1955

**Approved:** BE Morriss  
B. E. Morriss

**Abstract:** The summary is a cataloged listing of Technical Information Releases pertaining to the SAGE System that have been issued to date and indicates present status. The Production Coordination Office is an office established by the Lincoln Director's Office to serve as the contact point at Lincoln in connection with the SAGE System, and to formally release Lincoln documents covering system specifications and requirements.

The Lincoln Production Coordination Office (PCO) was established by the Director's Office of Lincoln Laboratory to serve as the contact point at Lincoln for outside agencies on production matters relating to the SAGE System and to facilitate coordination of such matters within the Laboratory. Information and data to be issued as official Lincoln Laboratory documents are processed: (1) to coordinate and obtain approval from all interested Lincoln groups and/or divisions, (2) to obtain concurrence from the interested organizations outside Lincoln, and (3) subsequently to be formally issued with a Technical Information Release (T.I.R.). The T.I.R. form also briefly summarizes the background, indicates extent of coordination, action to be taken, and qualifications regarding the use of the data being released. When changes are made to information which has been previously released by a Lincoln T.I.R., the changed information is processed in the same manner as the original release, and a new T.I.R. is released superseding the previous T.I.R.(s).

The attached Summary of Series 1 Technical Information Releases, Appendix A, was prepared to provide an up-to-date summary of active T.I.R.'s pertaining to the SAGE System. T.I.R.'s of other series do not apply to the SAGE System. Items are grouped into categories according to subject matter.


APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

Memorandum 6M-3189-3

page 2

In order to insure widespread dissemination of the status of the SAGE System T.I.R.'s outstanding, a summarized review of all issued Series 1 T.I.R.'s shall be prepared periodically by the PCO. This summary will be distributed to those persons and agencies receiving Technical Information Releases pertaining to the SAGE System.

SIGNED:



E. D. Lundberg

Production Coordination Office

EDL:mmc

Attachments: Appendix A, pps.  
Distribution List

APPENDIX A

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
I. Building Requirements	1-1	7/16/54	Prime Power Requirements-D.C. (M-2871)	
	1-7	7/29/54	Comments on W.E. Memo 7/16/54 on Bldg. Requirements (M-2937)	
	1-11	8/16/54	Prime Power Requirements-D.C. (M-2960)	
	1-23	9/17/54	Prime Power Dist. System-D.C. (M-3031)	
	1-29	10/1/54	Prime Power Requirements-D.C. (6M-2960 - Addendum #1)	
	1-30	10/1/54	Comments on Burns & Roe Drawings of D.C. Building and Power House (6M-3044)	
	1-39	11/12/54	Comments on Burns & Roe Drawings of D.C. Building and Power House (6M-3153)	
	1-60	2/16/55	Master Reference List of Requirements for Combined C.C.-D.C. Bldgs. (6M-3198-1)	This supersedes information previously released on T.I.R. 1-53.
	1-64	3/3/55	Supplement 1 to Master Reference List of Requirements for Combined C.C.-D.C. Buildings (6M-3198-1)	

Memorandum 6M-3189-3

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
I. Building Re- quirements (cont.)	[1-71	4/15/55	Master Reference List of Requirements for D.C. Buildings (6M-3147-2)	This supersedes information previously released on T.I.R.'s 1-2, 1-3, 1-4, 1-5, 1-6, 1-12, 1-13, 1-14, 1-15, 1-21, 1-22, 1-24, 1-25, 1-26, 1-27, 1-32, 1-40, 1-54, 1-63, and 1-65.
	[1-72	5/23/55	Power Generation and Distribution for SAGE System Direction Centers, Fifth and Subsequent Sites (6M-3378)	
	[1-74	5/23/55	Annunciator System for Monitoring Air Flow in SAGE Direction Centers and Combat Centers (6M-3501)	
	[1-80	6/30/55	Study of a Modified Combat Center for Use as a Permanent Rand and Air Training Command Facility (6M-2769, Supp. 1)	
II. Combat Center and Direction Center Equip- ment	[1-73	5/6/55	Summary Equipment List for SAGE System Direction Centers (6M-3159-1)	This supersedes information previously released on T.I.R.'s 1-20 and 1-45.
	1-49	12/3/54	Summary Equipment List for SAGE System Combined Combat Direction Centers (6M-3166)	

Memorandum 6M-3189-3

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
II. Combat Center and Direction Center Equipment	1-57	2/4/55	AN/FSQ-7 Specifications: Drum System AN/FSQ-7 (6M-3292)  Central Computer System, AN/FSQ-7 (6M-3291)  Specifications for Display System, AN/FSQ-7 (6M-3293)  Specifications for the Power Conversion and Distribution System, AN/FSQ-7 (6M-3297)  Specifications for the Manual Input System for the AN/FSQ-7 (6M-3298)  Specifications for the Output System for the AN/FSQ-7 (6M-3299)  Specifications for the Maintenance Equipment of AN/FSQ-7 (6M-3300)  Specifications for the Automatic Input Elements, AN/FSQ-7 (6M-3301)  Specifications for the Warning Light System, AN/FSQ-7 (6M-3309)	This supersedes information previously released on T.I.R.'s 1-33, 1-34, 1-35, 1-36, 1-37, 1-38, 1-43, 1-44, & 1-55.
	1-59	2/28/55	Evaluation of AN/FSQ-7 and AN/FSQ-8 Components	

Memorandum 6M-3189-3

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
II. Combat Center and Direction Center Equipment (cont.)	1-66	3/10/55	Supplement 1 to Specifications for Central Computer System for AN/FSQ-7 (6M-3291) and Drum System, AN/FSQ-7 (6M-3292)	
	[1-75	5/25/55	Ferrite Memory Core Specifications	
	[1-78	7/7/55	Supplement 1 to Specifications for the Power Conversion and Distribution System (6M-3297)	
			Supplement 2 to Specifications for Central Computer System for AN/FSQ-7 (6M-3291)	
			Supplement 1 to Specifications for Maintenance Equipment, AN/FSQ-7 (6M-3300)	
			Supplement 1 to Specifications for the Output System, AN/FSQ-7 (6M-3299)	
			Supplement 1 to Specifications for the Automatic Input Elements, AN/FSQ-7 (6M-3301)	
			Supplement 1 to Specifications for Display System, AN/FSQ-7 (6M-3293)	
			Supplement 1 to Specifications for the Manual Input System, AN/FSQ-7 (6M-3298)	
			Supplement 1 to Specifications for the Warning Light System, AN/FSQ-7 (6M-3309)	

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
III. Inputs and Outputs	1-18	9/7/54	SAGE Equipment at Heavy Radar Sites (Group Report 20-1)	
	1-19	9/7/54	Pre-SAGE Equipment at Heavy Radar Sites (Group Report 20-2)	
	1-47	12/2/54	Compatibility of 6 $\mu$ sec Pulse with SAGE System	
	1-51	12/17/54	Principles to be Followed for Selecting Radars for Each Subsector Direction Center (6M-3162-1)	
	1-56	2/1/55	Recommended Quantities of Input and Output Equipment for the First and Second AN/FSQ-7's (6M-3267-2)	
	1-58	2/23/55	SAGE Equipment List for a Combined Heavy Radar and Radio Site (Group Report 20-3) (revised)	This supersedes information previously released on T.I.R. 1-42.
	1-62	2/24/55	SAGE Equipment List for a Surveillance Radar Station (Group Report 20-4)	
	[1-76	5/27/55	Data Input Specifications to AN/FST-2 Coordinate Data Transmitting Set (Group Report M 24-48)	

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

Memorandum 6M-3189-3

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
IV. Operations	1-9	8/6/54	Equipment Allocations for XD-1 (M-2720-2 and Supplement 1)	
	1-67	3/16/55	Auxiliary Console and Wing Unit Equip- ment Allocation and Layout for AN/FSQ-7 Direction Centers (6M-3330 and Supp. 1)	
	1-79	6/30/55	Radar Data Capacity of AN/FSQ-7 (6M-2769, Supplement 1)	
V. Communications	1-17	9/2/54	Proposal for Communication between AN/FSQ-7 and F-99 Bases (M-2848-1)	
	1-31	10/8/54	Proposed Program for DIR and DDT (XD-1) (6M-2924)	
	1-41	11/26/54	Tactical Telephone System (XD-1) (6M-3000)	
	1-61	3/1/55	Communications: Texas Tower to Shore via Tropospheric Scatter (Grp. Rep. 36-3)	
	1-68	3/29/55	Ground-to-Ground Outputs from the SAGE System (6M-3266)	
	1-70	3/31/55	Number of Active Data Circuits from a Long-Range Radar Site (6M-3396)	

APPENDIX A (Cont.)

Summary of Active Technical Information Releases Pertaining to SAGE System

	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
VI. Maintenance	1-50	12/7/54	AN/FSQ-7 Spare Parts Policy (IBM memo dated 8/19/54, Revised 10/6/54)	
VII. Personnel	1-10	8/6/54	Training Program for A.F. Personnel (M-2902 and M-2947)	
	1-28	10/1/54	Training Program for A.F. Personnel (M-2947, Supplements #1 and #2)	
	[1-77	5/31/55	Air Force Personnel Required for the Experimental Subsector (6M-3570 and Supplement 1)	
VIII. Schedules	1-69	4/1/55	Engineering-Installation Phasing Committee, Summary Report #6	
IX. Miscellaneous	1-48	12/3/54	List of AN/FSQ-7 (Production Machine) Specifications (6M-3188)	
	1-52	12/17/54	List of AN/FSQ-7 (XD-1) Specifications (6M-2814-5)	This supersedes information previously released on T.I.R.'s 1-8, 1-16 and 1-46.

NOTE: T.I.R.'s released since last issue of this summary are preceded by a bracket ( [ ).

Memorandum 6M-3189-3

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