

Memorandum 6M-3189-4

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Division 6 - Lincoln Laboratory  
Massachusetts Institute of Technology  
Lexington 73, Massachusetts

SUBJECT: SUMMARY OF LINCOLN LABORATORY TECHNICAL INFORMATION RELEASES PERTAINING TO THE SAGE SYSTEM ISSUED BY THE PRODUCTION COORDINATION OFFICE (CUMULATIVE LIST THROUGH 30 SEPTEMBER 1955)

To: T.I.R. Distribution List

From: E. D. Lundberg

Date: 6 October 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 indicate 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).

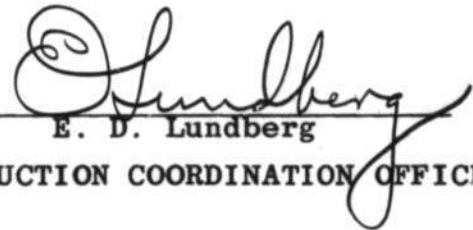
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The attached Summary of Series 1 Technical Information Releases, Appendix A, provides an up-to-date listing of active T.I.R.'s pertaining to the SAGE System. T.I.R.'s of other series do not apply to the SAGE System. Items are grouped into categories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

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:ero

Attachments: Appendix A,  
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 Reqm'ts.	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 and Roe Dwgs. of D.C. Building and Power House (6M-3044)	
	1-39	11/12/54	Comments on Burns and Roe Dwgs. of D.C. Building and Power House (6M-3153)	
	1-60	2/16/55	Master Reference List of Re- quirements for Combined C.C.- D.C. Buildings (6M-3198-1)	This supersedes in- formation previously released on TIR 1-53.
	1-64	3/3/55	Supplement 1 to Master Refer- ence List of Requirements for Combined C.C. - D.C. Buildings (6M-3198-1)	

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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 Reqm'ts. (Cont.)	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, Supple. #1)	
	[1-83	7/19/55	Space Requirements for Non-Lincoln Personnel Associated with Operation of the Experimental Subsector (office space) (6M-3575-1, Supp.1)	
	[1-86	8/10/55	Master Reference List of Requirements for D.C. Bldgs. (6M-3147-3)	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, 1-65, and 1-71.
	[1-89	7/27/55	Requirements for Separate Rand-Air Training Command Direction Center Facility (6M-3772)	

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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 Reqm'ts (Cont.)	1-94	9/30/55	Equipment Cooling Loads for a Direction Center (6M-3692, 6M-3790)	
II. Combat Center and Direction Center Equip.	1-49	12/3/54	Summary Equipment List for SAGE System Combined Combat Direction Centers (6M-3166)	
	1-57	2/4/55	AN/FSQ-7 Specifications (6M-3291, 6M-3292, 6M-3293, 6M-3297, 6M-3298, 6M-3299, 6M-3300, 6M-3301, 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, and 1-55.
	1-59	2/28/55	Evaluation of AN/FSQ-7 and AN/FSQ-8 Components	
	1-66	3/10/55	Supplements to AN/FSQ-7 Specifications (6M-3291, Supp. 1; 6M-3292, Supp.1)	
	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.
	1-75	5/25/55	Ferrite Memory Core Specifications	

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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 Equip. (cont)	1-78	7/7/55	Supplements to AN/FSQ-7 Specifications (6M-3291, Sup.2; 6M-3293, sup.1; 6M-3297, sup.1; 6M-3298, sup.1; 6M-3299, sup.1; 6M-3300, sup.1; 6M-3301, sup.1; 6M-3309, sup.1.)	
	1-82	7/15/55	AN/FSQ-7 Display Console Equipment and Label Layout (6M-3632 and sup.1, 6M-3633 and sup.1, 6M-3634 and sup.1, 6M-3635 and sup.1, 6M-3636 and sup.1)	This supersedes information previously released on T.I.R. #1-67.
	1-85	7/21/55	AN/FSQ-7 (XD-1) Display Console Equipment and Label Layouts (6M-3583, 6M-3583-1, 6M-3584, 6M-3584-1, 6M-3585, 6M-3585-1, 6M-3586, 6M-3586-1, 6M-3587, 6M-3587-1)	This supersedes information previously released on T.I.R. #1-9
	1-90	7/27/55	AN/FSQ-8 Display Console Equipment and Label Layouts (6M-3732)	
	1-91	8/16/55	AN/FSQ-7 Display Consoles (6M-3754, 6M-3756, 6M-3757 and sup.1, 6M-3758, 6M-3765 and correc. 1)	
	1-92	8/16/55	AN/FSQ-7 (XD-1) Display Consoles (6M-3753, 6M-3755, 6M-3758, 6M-3765 and Correc. 1)	

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	<u>T.I.R.#</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
II. Combat Center and Direction Center Equipment (cont.)	[1-93	8/24/55	Supplements to AN/FSQ-7 Specifications (6M-3291, sup.3; 6M-3292, sup.2; 6M-3293, sup.2; 6M-3297, sup.2; 6M-3298, sup.2; 6M-3299, sup.2; 6M-3300, sup.2; 6M-3301, sup.2)	
	[1-95	8/24/55	AN/FSQ-7 and AN/FSQ-7 (XD-1) Display Consoles (6M3399-1, 6M-3728, 6M-3818)	
	[1-96	8/24/55	AN/FSQ-7 (XD-1) Specifications (6M-3439-2, 6M-3660, 6M-3842)	
	[1-97	9/9/55	Master Reference List, AN/FSQ-7 Specifications (6M-3884 and sup.1)	This supersedes information previously released by T.I.R. 1-48.
	[1-98	9/8/55	Corrections to AN/FSQ-7 (XD-1) Display Console and Equipment Layout Totals (6M-3583-2)	
	[1-99	9/6/55	Punch Cards (IBM memo P-193,D-92)	
[1-101	9/8/55	Master Reference List, AN/FSQ-7 (XD-1) Specifications (6M-3581)	This supersedes information previously released by TIR 1-8 1-16, 1-46 and 1-52.	
III. 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 DDR and DDT (XD-1) (6M-2924)	

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	<u>T.I.R.#</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
III. Commun- ications (cont.)	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 (Group Report 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)	
	[1-84	7/18/55	External Communications, Combat Center AN/FSQ-8 (ADES manual)	
	[1-87	7/22/55	SAGE Ground-to-Air Radio (Group Report 311-3)	
	[1-88	7/22/55	Alternate Routing of Point-to- Point Communications for Texas Towers (Group Report 311-4)	
	[1-103	9/26/55	Ground-to-Air Data Link Sub- channel Selector Switch (6M-3873)	
IV. 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)	

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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>
IV. Inputs and Outputs (Cont.)	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 by 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)	
	[1-81	7/6/55	Location and Orientation of Radar Sites (Group Report 22-5)	
	[1-104	9/26/55	Procedure for Orientation of AN/FST-1 Azimuth Markers for the SAGE System (Group Report 22-6)	
	[1-105	9/27/55	Proposed Site and Equipment Locations in the Experimental Subsector (6M-3515-2)	

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	<u>T.I.R. #</u>	<u>Date</u>	<u>Material Released</u>	<u>Remarks</u>
V. Operations	1-79	6/30/55	Radar Data Capacity of AN/FSQ-7 (6M-2769, Supplement 1)	
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, Supp. 1 and 2)	
	1-77	5/31/55	Air Force Personnel Required for the Experimental Subsector (6M-3570 and Supplement 1)	

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

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