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TECHNICAL MEMORANDUM

(TM Series)

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Air Defense Command Program, for Air Defense Command.

SAGE Unique-to-Site Environmental
Data and Equipment Assignments
Spokane ADS

by

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22 March 1963

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404 707

INTRODUCTION

This volume of the TM(ADC)-820 Series contains the official SAGE unique-to-site environmental data and equipment assignments which are to be used in adapting the Model 9 computer programs and in Simplex Data Distribution Unit terminal assignments for the Spokane Air Defense Sector. Certain adaptation data such as facility locations, characteristics, and other related data which apply to all sectors, is presented in volumes 3 through 7 of this TM series. The reader is referred to Volume \emptyset of this series for a detailed list of contents of all volumes.

SAGE Unique-to-site Equipment Review (USER) Committee signatures appear on page 5 of this document, with initials indicating approval, concurrence or review, as appropriate.

ADCM 55-32 currently defines adaptation data as being of two categories: 1) ADC Controlled Data; and 2) Field Controlled Data. A portion of this document is ADC Controlled Data and therefore constitutes a reason for the ADC Foreword page and NORAD Preface page authorizing the use of this data. However, since this document also contains Field Controlled Data, e.g.: "Times-2" display data; Manual Input data; etc, it is noted here that the aforementioned military preface and foreword page do not in any way usurp the position of the Division and Sector Commanders as delegated in ADCM 55-32, but instead reflect recognition of data forwarded by those Commanders to SDC.

Discrepancies noticed in any part of this document by SDC on-site programming teams should be forwarded to the authors utilizing current established procedures. Revisions to this document will be published as data changes occur or when practical. Changes to previous data will be indicated by use of a " \triangleright " next to the data change.

SERIES CONTENTS

VOLUME	\emptyset	Series Description
VOLUME	1	Adaptation I/O limits and Drum Channel Requirements
VOLUME	2	Sector Environment Summaries
VOLUME	3	Sector and Region Positional Data
VOLUME	4	Radar Adaptation Data
VOLUME	5	Voice and Data-Link Communications Adaptation Data
VOLUME	6	Airbase and BOMARC Squadron Adaptation Data
VOLUME	7	ADA Site Adaptation Data
VOLUME	10	Unified Adaptation Guide for Region and Sector Data
VOLUME	250 through 351	SAGE Unique-to-Site Environmental Data and Equipment Assignments

LIST OF EFFECTIVE PAGES

This page is a reference of changes to this volume and contains a complete index of all effective pages.

PAGE NO	CHANGE LETTER	PUBLICATION DATE	PAGE NO	CHANGE LETTER	PUBLICATION DATE
1	A	22 March 63			
2	A	22 Mar 63			
3-4	Basic	15 Oct 62			
5-6	A	22 Mar 63			
7	Basic	15 Oct 62			
8	A	22 Mar 63			
9-10	Basic	15 Oct 62			
11-13	A	22 Mar 63			
14-16	Basic	15 Oct 62			
17	A	22 Mar 63			

USER COMMITTEE SIGNATURES

		APPROVAL	CONCURRENCE	REVIEW
APASTO	Lt. Col. D. G. Guarnasso	P. J. H.		
SDC (DAS)	J. J. Lagos		L.	
WE/ADES	[Signature]			C. J. D.
IEM	[Signature]			[Signature]

The SAGE Unique-to-Site Equipment Review (USER) Committee signatures appearing on this page only apply to the following sections:

- Section 2.4 LRI Drum channel assignments
- Section 6.2 Lateral-tell input channel assignments
- Section 6.3 Ground-to-ground data link output assignments
- Section 6.4 Ground-to-air data link output assignments
- Section 6.5 Teletype output assignments

All other sections of this document need not be reviewed by the USER committee. This page will only be reissued when changes to the above mentioned sections are made.

INDEX PAGE

- 1.0 SECTOR POSITIONAL DATA
 - 1.1 SECTOR PROGRAM BOUNDARIES
 - 1.1.1 MODE I BOUNDARY
 - 1.1.2 MODE II BOUNDARIES
 - 1.2 MAJOR WORLD GEORFFS SURROUNDING X1 AREA
 - 1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS
 - 1.4 LAND SFA LINES
 - 1.5 AIR DEFENSE IDENTIFICATION ZONE
 - 1.6 SECTOR MINIMUM ENROUTE ALTITUDE
 - 1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER
 - 1.8 MAGNETIC DECLINATION LINES
 - 1.9 X2 DISPLAY DATA

- 2.0 RADAR DATA
 - 2.1 LONG RANGE RADARS - LRR - HF - ALRR
 - 2.2 GAP FILLER RADARS
 - 2.3 LOCATION OF POINT NOT WITHIN ANY HF SHADOW AREA
 - 2.4 LRR DRUM CHANNEL ASSIGNMENTS

- 3.0 AIRBASE DATA
 - 3.1 MANNED INTERCEPTOR AIR BASES AND SQUADRONS
 - 3.2 SAC/MATS BASES

- 4.0 BOMARC DATA
 - 4.1 BOMARC A BASES
 - 4.2 BOMARC B BASES

- 5.0 ARMY AIR DEFENSE COMMAND POST (AADCP) DATA

- 6.0 COMMUNICATIONS DATA
 - 6.1 TIME DIVISION DATA LINK RADIO SITES
 - 6.2 LATERAL-TELL INPUT CHANNEL ASSIGNMENTS
 - 6.3 GROUND TO GROUND DATA LINK OUTPUT ASSIGNMENTS
 - 6.4 GROUND TO AIR DATA LINK OUTPUT ASSIGNMENTS
 - 6.5 TELETYPE OUTPUT ASSIGNMENTS
 - 6.6 LATERAL-TELL ROUTING TABLE

- 7.0 MANUAL INPUTS

1.0 SECTOR POSITIONAL DATA

SECTOR - SPOKANE

REGION - 25TH

AMP NO. 003

1.1 SECTOR PROGRAM BOUNDARIES

1.1.1 MODE I BOUNDARY

REF	LATITUDE	LONGITUDE
01	059 00 00	115 00 00
02	055 00 00	115 00 00
03	045 20 00	115 00 00
04	045 20 00	117 00 00
05	044 00 00	120 00 00
06	044 00 00	120 50 00
07	045 50 00	121 50 00
08	046 30 00	121 00 00
09	055 00 00	121 00 00
10	057 00 00	123 00 00
11	059 00 00	123 00 00
12	OPEN TO NORTH	

1.1.2 MODE II BOUNDARIES

MODE IIA - GREAT FALLS			MODE IIB - SEATTLE		
REF	LATITUDE	LONGITUDE	REF	LATITUDE	LONGITUDE
01	055 00 00	113 00 00	01	059 00 00	115 00 00
02	045 20 00	113 00 00	02	055 00 00	115 00 00
03	045 20 00	115 00 00	03	045 20 00	115 00 00
04	045 20 00	117 00 00	04	045 20 00	117 00 00
05	044 00 00	120 00 00	05	044 00 00	120 00 00
06	044 00 00	120 50 00	06	044 00 00	120 50 00
07	045 50 00	121 50 00	07	045 50 00	121 50 00
08	046 30 00	121 00 00	08	045 50 00	133 30 00
09	055 00 00	121 00 00	09	045 50 00	134 30 00
10	057 00 00	123 00 00	10	OPEN TO NORTH AND WEST	
11	059 00 00	123 00 00			
12	OPEN TO NORTH				

1.2 MAJOR WORLD GEOREFS SURROUNDING XI AREA

SWITCH CODE	GEOREF	SWITCH CODE	GEOREF	SWITCH CODE	GEOREF
1	DJ	4	EJ	7	FJ
2	DK	5	EK	8	FK
3	DL	6	EL	9	FL

22 MARCH 1963

8

TM(ADC)820/253/00A

1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS

AUTOMATIC SECTOR NAME	AUTO LTR. DSG.	SECTOR REF.NO. (EQ.ID.)	D/L TIED	AMP NO.	SWITCH CODE	MAN LTR. DSG.	MANUAL SECTOR NAME **
PORTLAND SEATTLE	M	1	YES	013	0 *		
	G	2	YES	012	1		
					2		
					3	YO	SASKATOON
					4	YF	KAMLOOPS
RENO	X	5	YES	016	5		
MINOT	P	6		019	6		
GREAT FALLS	A	7	YES	020	7		
SAN FRANCISCO	T	8		018	8		
					9		

*SWITCH NO. 0 ON 10PB MODULES AND SWITCH NO. 10 ON 15PB MODULES
 **ONLY MDC'S WITH DC TTY OUTPUT ARE INDICATED

1.4 LAND SEA LINES

		NORTH POINT		SOUTH POINT
1	MODE I	NONE		
2	MODE IIA	NONE		
3	MODE IIB	052 45 00	129 00 00	049 00 00 126 00 00

1.5 AIR DEFENSE IDENTIFICATION ZONE - ADIZ/CADIZ

REF		LATITUDE	LONGITUDE
01	ADIZ POINTS	051 15 00	128 00 00
02		050 30 00	121 45 00
03		050 10 00	121 26 00
04		049 00 00	120 30 00
05		049 00 00	109 00 00
01	OUTER CADIZ DOMESTIC	052 00 00	109 00 00
02		052 00 00	112 00 00
03		052 30 00	114 00 00
04		058 30 00	114 00 00
05		058 30 00	123 00 00
06		053 00 00	132 50 00
07	INNER CADIZ DOMESTIC	049 00 00	109 00 00
08		049 00 00	116 00 00
09		055 00 00	121 00 00
10	COASTAL CADIZ POINTS	051 00 00	129 45 00
01		053 00 00	132 50 00
02		052 00 00	132 00 00
03		048 30 00	125 00 00
04		048 20 00	128 00 00
05		048 20 00	132 10 00
06		052 00 00	135 00 00
07	053 00 00	132 50 00	

22 MARCH 1963

11

TM(ADC)820/253/00A

2.2 GAP FILLER RADARS

GFR CH NO*	SITE IDENT	MODE	AMP NO.	TIED LRR SWCH CODE	GFR SWCH CODE**
0					
1					
2	P-40B	I	103	5	1
3	P-40C	I	104	5	2
4					
5	THRU 34 BLANK				

*SAME AS REFERENCE NUMBER MINUS 1

**GFR SWITCH CODE BASED ON IMPLEMENTATION OF SPCR 1579

2.3 LOCATION OF POINT NOT WITHIN ANY HF SHADOW AREA

▽

NONE AVAILABLE

22 MARCH 1963

12

TM(ADC)820/253/00A ()

2.4 LRR DRUM CHANNEL ASSIGNMENTS

SDDU CONNECTIONS

SITE LOCATION	TELCO TERMINAL	I.B.M. TERMINAL	CHANNEL NUMBER	SITE IDENT
DRUM FIELD 1 (35)				
SM-151	3F- 1	3F- 1	1	0100
	3F- 2	3F- 2	2	0100
RP-1	3F- 3	3F- 3	3	0010
	3F- 4	3F- 4	4	0010
P-46	3F- 5	3F- 5	5	0001
	3F- 6	3F- 6	6	0001
P-44	3E- 7	3E- 7	7	0011
	3E- 8	3E- 8	8	0011
P-40	3E- 9	3E-11	11	0101
	3E-10	3E-12	12	0101
▷ C-18__	3D-11	3D-13	13	1010
	3D-12	3D-14	14	1010
▷ C-19__	3D-13	3D-15	15	1011
	3D-14	3D-16	16	1011
▷ C-21__	3D-15	3D-17	17	1001
	3C-16	3C-18	18	1001
DRUM FIELD 2 (37)				
C-153	3C-17	3C-19	19	1101
	3C-18	3C-20	20	1101
TM-179	3C-19	3C-21	21	0110
	3C-20	3C-22	22	0110
P-32	3B-21	3B-23	23	1000
	3B-22	3B-24	24	1000
SM-150	3B-23	3B-25	25	0111
	3B-24	3B-26	26	0111
▷ C-54__	3B-25	3B-29	29	1100
	3A-26	3A-30	30	1100
	3A-27	3A-31	31	
	3A-28	3A-32	32	
	3A-29	3A-33	33	
	3A-30	3A-34	34	
	4F-31	4F-35	35	
	4F-32	4F-36	36	

3.0 AIRBASE DATA

3.1 MANNED INTERCEPTOR AIR BASES AND SQUADRONS

REF#	NAME	DSG	MODE-TYPE INDICATOR			MODE	SWCH CODE	SQUADRONS		AMP NO.
			I	IIA	IIB			UNIT	DSG	
01	SPOKANE INTL WASH	GEG	S	S	S	I	14	498 FIS 116 ANG	AH GL	144 144
02	LARSON AFB WASH	LRN	R	R	R	I	13			071
03	PAINE FIELD WASH	PAE	R	R	S	IIB	12	64 FIS	EP	119
04	MALMSTROM AFS MONT	GFA	R	R	R	OL	11			091
05	GR.FALLS INTL MONT	GTF	R	R	R	OL	10			051
06	MCCHORD AFB WASH	TCM	R	R	S	IIB	9	318 FIS	LK	081
07	PORTLAND INT'L ORE	PDX	R	R	R	OL	8			127
08	COMOX BC	QQ	R	R	S	IIB	7	409 AWF	HG	025
09	KINGSLEY FIELD ORE	LMT	R	R	R	OL	6			065
10	VANCOUVER INT'L BC	VR	R	R	R	IIB	5			162
11	CALGARY ALB	YC	R	R	R	IIA	4			016
12	NAMAQ ALB	ED	R	R	R	IIA	3			106
13	GRANDE PRAIRIE ALB	QU	R	R	R	I	2			050
14	WHIDBEY IS. WASH	NUW	R	R	R	IIB	1			166
15	WALLA WALLA CTY. WA	ALW	S	S	S	I	0			184

*SAME AS A/B CHANNEL NUMBER PLUS ONE

3.2 SAC/MATS BASES

	NAME	3 LTR DESIG	MODE*	AMP NO.
1	FAIRCHILD, WASH	SKA	I	033
2	LARSON AFB, WASH	LRN	I	048
3	SPOKANE INT, WASH	GEG	I	088
4	MCCHORD, WASH	TCM	II	057
5	NAMAQ RCAF, ALB	ED	II	069
6	SEATTLE-TAC, WASH	SEA	II	082

*MODE IS DEFINED HERE AS INCLUDING A 50 MILE OVERLAP ZONE

15 OCTOBER 1962

14

TM(ADC)820/253/00 ()

4.0 BOMARC DATA

4.1 BOMARC A BASES - NONE

4.2 BOMARC B BASES - NONE

5.0 ARMY AIR DEFENSE COMMAND POST(AADCP) DATA

SMCH CODE*	NAME	OPTION	MODE	EQ.ID.	AMP NO.	PARENT SECTOR	MODE II CONTROL	OVERLAP COVERAGE
1	SEATTLE	AUTO	IIB	12	021	SE	SP	PO
2								
3	FAIRCHILD	AUTO	I	14	007	SP	SE	GR,RE,PO
4								
5								
6								
7								
8								
9								
10								

*SAME AS AADCP NUMBER

6.0 COMMUNICATIONS DATA

6.1 TIME DIVISION DATA LINK RADIO SITES

REF.	IDENT	MODE	AMP NO.
01	SDC-15	I	265
02	SM-151	I	301
03	TM-179	IIA	329
04	P-32	I	152
05	P-44	IIB	164
06	P-46	IIB	166
07	C-21	I	021
08	C-153	I	073
09	C-54	IIA	054
10	C-18	IIB	018
11	C-19	IIB	019

22 MARCH 1963

17
(last page)

TM(ADC)820/253/00A

6.6 LATERAL-TELL ROUTING TABLE - FIRST STOP

SECTOR DSG	SECTOR 1ST ROUTE	REFERENCE 2ND ROUTE	NUMBER 3RD ROUTE	4TH ROUTE	5TH ROUTE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12	2				
13	1				
14					
15					
16	5				
17					
18	5				
19	5				
20	7				
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

7.0 MANUAL INPUTS

SSR NO.	NAME/IDENT	TYPE	55-20 DESIG	SSR NO.	NAME/IDENT	TYPE	55-20 DESIG
01	STA 1 AND 11	AEW	GV	10	STA 25	PV	MV
02	STA 3 AND 13	AEW	MO	11	C-18	MDC	GE
03	STA 21	AEW	GR	12	C-19	MDC	GF
04	STA 31	AEW	GX	13	C-21	MDC	YO
05	STA 33	AEW	MX	14	C-153	MDC	YF
06	STA 1 AND 11	PV	GT	15	C-20	MDC	GO
07	STA 3 AND 13	PV	MF	16	C-36	MDC	AQ
08	STA 21	PV	GS	17	DAWSON CREEK	MCL	HD
09	STA 23	PV	MT	18	STONEY MT.	MCL	HS

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USG Sec. 2 (3) 4345
USG DAS (6) 4365
PPB SSG System Data (2) 20157
STB Run Designer 4770
PTG Control Unit Phoenix

FIB HQ 24191
FIB Group Head - McChord
FIB Team Heads - McChord
Adair
Larson
Great Falls
Stead ()

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System Development Corporation,
Santa Monica, California
SAGE UNIQUE-TO-SITE ENVIRONMENTAL
DATA AND EQUIPMENT ASSIGNMENTS,
SPOKANE ADS, MODEL 9.1.
Scientific rept., TM(ADC)-820/253/00A,
by D. M. McDaniel. 22 March 1963, 13p.
(Contract AF 19(628)-1648, System 416L
Air Defense Command Program, for Air
Defense Command)

Unclassified report

DESCRIPTORS: Air Defense Command.

Identifiers: SAGE Model 9.

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Presents change pages for TM(ADC)-820/253/00,
"SAGE Unique-to-Site Environmental Data
and Equipment Assignments, Spokane ADS,
dated 15 October 1962, by D. M. McDaniel.

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