

**UNCLASSIFIED**

**AD** **408 459**

**DEFENSE DOCUMENTATION CENTER**

**FOR**

**SCIENTIFIC AND TECHNICAL INFORMATION**

**CAMERON STATION, ALEXANDRIA, VIRGINIA**



**UNCLASSIFIED**

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

CATALOGED BY DDC  
AS AD NO. 408459

408 459

63-4-2

TM(ADC) 820 292 01

RECON 515

SAGE Unique-to-Site Environmental

Data and Equipment Assignments

Great Falls ADS

16 May 1961

# TECHNICAL MEMORANDUM

(TM Series)

## DDC AVAILABILITY NOTICE

Qualified requesters may obtain  
copies of this report from DDC.

This document was produced by SDC in performance of contract AF 19(628)-1648,  
Air Defense Command Program, for Air Defense Command.

RECON 515

SAGE Unique-to-Site Environmental  
Data and Equipment Assignments  
Great Falls ADS

by

D. M. McDaniel

15 May 1963

SYSTEM

DEVELOPMENT

CORPORATION

2500 COLORADO AVE.

SANTA MONICA

CALIFORNIA

The views, conclusions or recommendations expressed in this document do not necessarily reflect the official views or policies of agencies of the United States Government.

Permission to quote from this document or to reproduce it, wholly or in part, should be obtained in advance from the System Development Corporation.

Although this document contains no classified information it has not been cleared for open publication by the Department of Defense. Open publication, wholly or in part, is prohibited without the prior approval of the System Development Corporation.



INTRODUCTION

## GREAT FALLS AIR DEFENSE SECTOR RECON 515

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 this air defense sector.

The interim RECON 515 document, as approved by HQ ADC, is superseded by this volume. Further changes during RECON project should be coordinated with the affected sectors, Division Headquarters, ADC and SDC.

Certain adaptation data such as facility locations and other related data which may apply to more than one sector or region, is presented in the Master volumes of this TM series. The reader is referred to Volume 0 of this series for a detailed list of contents of all volumes. Interceptor Performance Data for manned interceptors will be maintained in the TM(ADC)825 series.

The TM(ADC)820 series supersedes the heretofore published "ADC Controlled SAGE Environmental Data" FN(ADC)5640 series, the "SAGE Unique-to-Site Equipment Assignments" FN(ADC)5641 series, and the "SAGE Environmental Data and Equipment Assignments" FN(ADC)6400 series.

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 the NORAD Preface page authorizing the use of this data. Since this document also contains Field Controlled Data, 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.

The data in this document is to be used after 15 May 1963.

Supplements to this document, when necessary, will be issued monthly on the 25th of each month. Data changes received before the 20th day of each month will be included in the revision issued on the 25th.

LIST OF EFFECTIVE PAGES

This section is reserved for future reference of changes to this volume and will contain a complete index of all effective pages.

Page No.	Change Letter	Publication Date	Page No.	Change Letter	Publication Date

SERIES CONTENTS

VOLUME	Ø	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	8	Radar Masking Parameters
VOLUME	10	Unified Adaptation Guide for Region and Sector Data
VOLUME	250 through 351	SAGE Unique-to-Site Environmental Data and Equipment Assignments

15 May 1963

3

TM(ADC)820/292/01

HEADQUARTERS  
**AIR DEFENSE COMMAND**  
UNITED STATES AIR FORCE  
ENT AIR FORCE BASE  
COLORADO SPRINGS, COLORADO



### FOREWORD

1. This Technical Memorandum was prepared by the System Development Corporation under Contract No. AF 19(628)-1648 and in accordance with ADCR 5-5, 1 July 1961.
2. The official sanction of this Headquarters to SAGE Computer Program Documents authorizes use of this document by all appropriate SAGE units within Air Defense Command. Information contained herein shall be construed as official guidance for SAGE personnel as concerns computer program models.



**ROBERT M. LEE**  
Lieutenant General, USAF  
Commander

**RICHARD C. LOWMAN**  
Colonel, USAF  
Command Director of  
Administrative Services

**HEADQUARTERS NORTH AMERICAN AIR DEFENSE COMMAND**  
**Ent Air Force Base, Colorado**

15 May 1963

4

TM(ADC)820/292/01

**PREFACE**

This Headquarters authorizes use of this document by all echelons of NORAD Component Commands directly affected by SAGE Computer Program Model 9. Information contained herein shall be construed as official guidance for SAGE personnel.

**FOR THE COMMANDER-IN-CHIEF:**

**W. H. HENNIG**  
Major General, USA  
Chief of Staff



**JAMES W. FEARS**  
Lieutenant Colonel, USAF  
Director of Administrative Services



USER COMMITTEE SIGNATURES

		APPROVAL	CONCURRENCE	REVIEW
APASTO	<i>W. Col. J. P. Summers</i>	<i>JMS</i>		
SDC (DAS)	<i>John D. Bost</i>		<i>JB</i>	
WE/ADES	<i>C. L. Lynn</i>			<i>C. L. Lynn</i>
IEM	<i>Donald A. Lee</i>			<i>D. A. Lee</i>

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

- Section 2.4      LRI drum channel assignments
- Section 6.2.0    Lateral-Tell input channel assignments
- Section 6.2.1    Lateral-Tell address for Great Falls DC
- 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 BOUNDARIES
  - 1.1.2 MODE I PRIMARY APPENDANTS
  - 1.1.3 MODE I SECONDARY APPENDANTS
  - 1.1.4 MODE IIA BOUNDARIES
  - 1.1.5 MODE IIA PRIMARY APPENDANTS
  - 1.1.6 MODE IIA SECONDARY APPENDANTS
  - 1.1.7 MODE IIB BOUNDARIES
  - 1.1.8 MODE IIB PRIMARY APPENDANTS
  - 1.1.9 MODE IIB SECONDARY APPENDANTS
- 1.2 MAJOR WORLD GEOREFS SURROUNDING X1 AREA
- 1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS
- 1.4 LAND SEA LINES
- 1.5.0 AIR DEFENSE IDENTIFICATION ZONE
- 1.5.1 SW CORNER OF THE FREE-PENDING GRID
- 1.6 SECTOR MINIMUM ENROUTE ALTITUDE
- 1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER
- 1.8.0 MAGNETIC VARIATION LINES
- 1.8.1 MAGNETIC VARIATION AT SECTOR CENTER
- 1.9 X2 DISPLAY DATA

## 2.0 RADAR DATA

- 2.1 LONG RANGE RADARS - LRR - HF - ALRR
- 2.2 GAP FILLER RADARS
- 2.4 LRR DRUM CHANNEL ASSIGNMENTS

## 3.0 AIRBASE DATA

- 3.1.0 MANNED INTERCEPTOR AIRBASES AND SQUADRONS
- 3.1.1 SECTOR FACT FOR SPECIALLY DESIGNATED INTERCEPTOR
- 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

15 MAY 1963

7

TM(ADC)820/292/01

(page 8 blank)

6.0 COMMUNICATIONS DATA

- 6.1 TIME DIVISION DATA LINK RADIO SITES
- 6.2.0 LATERAL-TELL INPUT CHANNEL ASSIGNMENTS
- 6.2.1 LATERAL-TELLING ADDRESS FOR GREAT FALLS DC
- 6.3.0 GROUND TO GROUND DATA LINK OUTPUT ASSIGNMENTS
- 6.3.1 GROUND TO GROUND DATA LINK OUTPUT USE ANALYSIS MATRIX
- 6.4.0 GROUND TO AIR DATA LINK OUTPUT ASSIGNMENTS
- 6.4.1 GROUND TO AIR DATA LINK OUTPUT USE ANALYSIS MATRIX
- 6.5 TELETYPE OUTPUT ASSIGNMENTS
- 6.6 LATERAL-TELL ROUTING TABLE
- 6.7 ADDITIONAL DATA FOR CXI AND CXO

7.0 MANUAL INPUTS

15 MAY 1963

9

TM(ADC)820/292/01

1.0 SECTOR POSITIONAL DATA

SECTOR - GREAT FALLS

REGION - 29TH

AMP NO. 004

1.1 SECTOR PROGRAM BOUNDARIES

1.1.1 MODE I BOUNDARIES \*

REF.	LATITUDE	LONGITUDE	N ADJ	P ADJ	D OPP
01	055 00 00	103 00 00			
02	043 40 00	103 00 00	GF		
03	043 50 00	107 45 00			
04	045 20 00	107 45 00	RE		
05	045 20 00	113 00 00	RE		
06	045 20 00	115 00 00	RE		
07	055 00 00	115 00 00	SP	SE	
08	OPEN TO NORTH				

\* ABBREVIATIONS

N ADJ--NORMALLY ADJACENT SECTOR

P ADJ--PASSIVELY ADJACENT SECTOR

D OPP--DIAGONALLY OPPOSITE SECTOR

1.1.2 MODE I PRIMARY APPENDANTS

REF	PRIMARY APPENDANT LATITUDE	LONGITUDE	LEFT N ADJ	LEFT P ADJ	RIGHT N ADJ	RIGHT P ADJ
01						
02	043 30 00	100 30 00	GF			
03	040 40 00	107 45 00			RE	
04						
05						
06	045 20 00	117 00 00	RE		SP	SE
07						

15 MAY 1963

10

TM(ADC)820/292/01

1.1.3 MODE I SECONDARY APPENDANTS

REF	SECONDARY APPENDANT LATITUDE	LONGITUDE	LEFT N ADJ.	LEFT P ADJ.	RIGHT N ADJ.	RIGHT P ADJ.
01						
02						
03	039 30 00	110 00 00			RE	
04						
05						
06	044 00 00	120 00 00	RE		SP	SE
07						

1.1.4 MODE IIA BOUNDARIES

NO MODE IIA

1.1.5 MODE IIA PRIMARY APPENDANTS

NO MODE IIA

1.1.6 MODE IIA SECONDARY APPENDANTS

NO MODE IIA

1.1.7 MODE IIB BOUNDARIES

NO MODE IIB

1.1.8 MODE IIB PRIMARY APPENDANTS

NO MODE IIB

1.1.9 MODE IIB SECONDARY APPENDANTS

NO MODE IIB

1.2 MAJOR WORLD GEOREFS SURROUNDING X1 AREA

SWITCH CODE	GEOREF	SWITCH CODE	GEOREF	SWITCH CODE	GEOREF
1	EJ	4	FJ	7	GJ
2	EK	5	FK	8	GK
3	EL	6	FL	9	GL

15 MAY 1963

11

TM(ADC)820/292/01

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 *
						0	
						1	
SEATTLE	G	2		012	2		
						3	
SIOUX CITY **	L	4	YES	022	4		
RENO	X	5	YES	016	5		
						6	
						7	
GRAND FORKS	T	8		011	8		
SPOKANE	Y	9	YES	015	9		

\* ONLY MDC'S WITH DC TTY OUTPUT ARE INDICATED

\*\* SIOUX CITY IS NOT AN ADJACENT SECTOR BUT IS DATA LINK TIED

1.4 LAND SEA LINES - NONE

1.5.0 CANADIAN AIR DEFENSE IDENTIFICATION ZONE - CADIZ

	AMP NO.	LATITUDE	LONGITUDE
NORTHERN DOMESTIC CADIZ			
01		058 30 00	123 00 00
02		058 30 00	114 00 00
03		052 30 00	114 00 00
04		052 00 00	112 00 00
05		052 00 00	102 00 00
06		054 00 00	096 00 00
SOUTHERN DOMESTIC CADIZ			
01	001	055 00 00	121 00 00
02	002	049 00 00	116 00 00
03	003	049 00 00	100 00 00

1.5.1 THE SW CORNER OF THE FREE-PENDING GRID IS FREE

15 MAY 1963

12

TM(ADC)820/292/01

1.6 SECTOR MINIMUM ENROUTE ALTITUDE. 9500 FEET

1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER

LATITUDE	LONGITUDE
048 24 00	106 33 00

1.8.0 MAGNETIC VARIATION LINES

LINE NO.	VARIATION	NORTHERN POINTS		SOUTHERN POINTS	
		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1	26 DEG E	059 00 00	109 05 00	054 00 00	118 05 50
2	24 DEG E	057 00 00	108 40 00	051 00 00	118 55 30
3	22 DEG E	053 00 00	111 05 20	048 00 00	118 40 30
4	20 DEG E	053 00 00	107 45 00	046 00 00	116 05 20
5	18 DEG E	053 00 00	105 20 05	046 00 00	111 30 00
6	16 DEG E	053 00 00	103 15 05	045 00 00	107 35 25
7	14 DEG E	053 00 00	101 20 00	045 00 00	103 15 30
8	12 DEG E	053 00 00	099 00 00	045 00 00	100 30 00

1.8.1 MAGNETIC VARIATION AT SECTOR CENTER 18 DEGREES EAST

1.9 X2 DISPLAY DATA

X2 DISPLAY CENTER		X2 DISPLAY VERTICES	
LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
050 00 00	108 00 00	1 NE 055 34 13	096 14 30
		2 SE 042 59 29	099 32 32
		3 SW 043 22 46	117 03 29
		4 NW 056 07 04	118 59 43

15 MAY 1963

13

TM(ADC)820/292/01

## 2.0 RADAR DATA

2.1 LONG RANGE RADARS,  
LRR-HF-ALRR

## MULTIPLEXED GAP FILLER RADARS

SWCH. CODE*	SITE DESIG.	NO.OF TIED LTR. HF'S	LTR. DSG.	MODE	AMP NO.	SWCH. CODE	SITE DESIG.	SWCH. CODE	SITE DESIG.
0	P-28	0***	A	OL	086	0 1 2	P-28A	3 4 5	P-28D
1	**P-26	2	B	I	084	0 1 2	P-26A	3 4 5	P-26D
2	P-24	2	C	I	081				
3	M-98	2	D	I	036				
4	TM-177	2	E	OL	169	0 1 2	TM-177B	3 4 5	
5	**SM-147	2	F	I	154				
6	TM-179	2	G	I	173				
7	**C-36	2	H	I	024				
8	**C-51	0***	J	OL	028				
9	TM-178	2	K	I	171				
10	P-25	2	L	I	082				
11	C-52	2	M	I	029				
12	**P-27	2	N	I	085				
13	**C-53	2	P	I	030				
14	C-54	2	Q	I	031				

\*SAME AS REFERENCE NO. MINUS 1, ID CODE, AND WARNING LIGHT NUMBER. TO OBTAIN LRR PROGRAM CHANNEL NUMBER ADD 35, TO OBTAIN MKX PROGRAM CHANNEL NUMBER ADD 49 (WITH SPCR 1723 ADD 50)

\*\* 6 LRR'S WITH THE MOST MODE I COVERAGE

\*\*\* WILL HAVE TWO HF'S TIED IN FINAL CONFIGURATION

NOTE - C-54 WILL BE INSTALLED WITH IMPLEMENTATION OF SPC 1723



15 MAY 1963

14

TM(ADC)820/292/01

2.2 GAP FILLER RADARS

GFR CH NO*	SITE IDENT	MODE	AMP NO.	TIED LRR SWCH CODE	GFR SWCH CODE
0	P-26A	I	084	1	0
1	P-26D	I	085	1	3
2	P-28A	OL	086	0	0
3	P-28D	OL	087	0	3
4	TM-177B	I	168	4	1
5					
6	THRU 34 BLANK				

\*SAME AS REFERENCE NUMBER MINUS 1

15 MAY 1963

15

TM(ADC)820/292/01

## 2.4 LRR DRUM CHANNEL ASSIGNMENTS

## SDDU CONNECTIONS

SITE LOCATION	TELCO TERMINAL	I.B.M. TERMINAL	CHANNEL NUMBER	SITE IDENT
DRUM FIELD 1 (35)				
P-24	3F- 1	3F- 1	1	0010
	3F- 2	3F- 2	2	0010
P-26	3F- 3	3F- 3	3	0001
	3F- 4	3F- 4	4	0001
M-98	3F- 5	3F- 5	5	0011
	3E- 6	3E- 6	6	0011
SM-147	3E- 7	3E- 7	7	0101
	3E- 8	3E- 8	8	0101
C-51	3E- 9	3E-11	11*	1000
	3E-10	3E-12	12*	1000
P-27	3D-11	3D-13	13*	1100
	3D-12	3D-14	14*	1100
P-28	3D-13	3D-15	15*	0000
	3D-14	3D-16	16*	0000
TM-177	3D-15	3D-17	17*	0100
	3C-16	3C-18	18*	0100
DRUM FIELD 2 (37)				
TM-178	3C-17	3C-19	19	1001
	3C-18	3C-20	20	1001
P-25	3C-19	3C-21	21	1010
	3C-20	3C-22	22	1010
C-36	3B-21	3B-23	23	0111
	3B-22	3B-24	24	0111
TM-179	3B-23	3B-25	25	0110
	3B-24	3B-26	26	0110
C-53	3B-25	3B-29	29	1101
	3A-26	3A-30	30	1101
C-54	3A-27	3A-31	31*	1110
	3A-28	3A-32	32*	1110
C-52	3A-29	3A-33	33*	1011
	3A-30	3A-34	34*	1011
	4F-31	4F-35	35	
	4F-32	4F-36	36	

\* THIS IS AN ADDITIONAL REQUIREMENT. APPROPRIATE MILITARY ACTION TO PROCURE REQUIRED EQUIPMENT WILL BE TAKEN.

## 3.0 AIRBASE DATA

## 3.1.0 MANNED INTERCEPTOR AIRBASES AND SQUADRONS

REF*	NAME	DSG	MODE-TYPE INDICATOR		MODE	SWCH CODE	SQUADRONS		AMP NO.
			I				UNIT	DSG	
01	MALMSTROM AFB, MONT	GFA	S		I	14	29 FIS	UG	091
02	GLASGOW AFB, MONT	GSG	S		I	13	13 FIS	PH	044
03	MINOT AFB, N DAKOTA	MIB	R		OL	12			100
04	GREAT FALLS INTL	GTF	A		I	11	186 ANG	XH	051
05	COLD LAKE, ALTA	OD	R		I	10			024
06	GREAT FALLS, MONT	GT1	R		I	9			173
07	MINOT (WEST), N DAK	MI1	R		OL	8			175
08	CUTBANK, MONT	CTB	R		I	7			026
09	REGINA, SASK	QR	R		I	6			131
10	BILLINGS LOGAN, MONT	BIL	R		I	5			009
11	NAMAO, ALTA	ED	R		I	4			106
12	SASKATOON, SASK	XE	R		I	3			135
13	CALGARY, ALTA	YC	R		I	2			016
14	GLASGOW AFB (WEST)	GS1	R		I	1			046
15	MALMSTROM AFB 1	GF1	R		I	0			172

\*SAME AS A/B CHANNEL NUMBER PLUS ONE

## 3.1.1 SECTOR FACT FOR SPECIALLY DESIGNATED INTERCEPTOR IS 3

## 3.2 SAC/MATS BASES

	NAME	3 LTR DESIG	MODE*	AMP NO.
1	COLD LAKE, ALTA	OD	I	020
2	MALMSTROM, MONT	GFA	I	060
3	NAMAO RCAF, ALTA	ED	I	069
4	GLASGOW, MONTANA	GGW	I	036
5	ELLSWORTH AFB	RCA	I	030

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

15 MAY 1963

17

TM(ADC)820/292/01

- 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 - NONE
- 6.0 COMMUNICATIONS DATA
- 6.1 TIME DIVISION DATA LINK RADIO SITES

REF	IDENT	MODE	AMP NO.	GAT SITE DSG
01	SM-147	I	297	1
02	TM-178	I	328	2
03	C-53	I	053	3
04	C-36	I	036	4
05	P-25	I	145	5
06	P-24	I	144	6
07	C-54	I	054	7
08	P-26	I	146	8
09	M-98	I	088	9
10	P-27	I	147	0
11 *	TM-177		327	U
12 *	C-51		051	V
13 *	R-19		269	W
14	TM-179	I	329	X
15	C-52	I	052	Y

\* NOT OPERATIONAL - WILL BE MODE I IN FINAL CONFIGURATION

6.2.0 LATERAL-TELL INPUT CHANNEL ASSIGNMENTS

SITE LOCATION NAME AND TYPE	TELCO TERMINAL	I.B.M. TERMINAL	CHANNEL NUMBER	SITE IDENT
	1F- 1	1F- 1	1	
*DULUTH DC	1F- 2	1F- 2	2	0101
SPOKANE DC	4F- 3	1F- 3	3	1001
RENO RCC/DC	1F- 4	1F- 4	4	0101
SIOUX CITY RCC/DC	1F- 5	1F- 5	5	0100
	1E- 6	1E- 7	7	

ALL REMAINING CHANNELS UNUSED

\* CIRCUITS NOT YET INSTALLED. SITE IDENT FOR DULUTH WILL CHANGE TO 0001 AT A LATER DATE.

6.2.1 LATERAL-TELLING ADDRESS FOR GREAT FALLS DC IS 0111

15 MAY 1963

18

TM(ADC)820/292/01

6.3.0 GROUND TO GROUND DATA LINK OUTPUT ASSIGNMENTS

OUTPUT SECTION ADDRESS 2

OUTPUT LINE	TELCO TERMINAL	ORA	I.B.M. TERMINAL	FUNCTION
G/G-1	2F- 3	0-4	2F- 3	LATERAL-TELLING RENO, SPOKANE  LATERAL-TELL/FORWARD-TELL SIOUX CITY RCC/DC
G/G-2	2F- 4	5-9	2F- 4	HEIGHT-FINDERS C-36, C-52, C-53, C-54, M-98, P-24, P-25, P-26, SM-147, TM-178, TM-179, P-27, TM-177
G/G-3	2F- 5	10-14	2F- 5	
G/G-4	2F- 6	15-19	2F- 6	ADA SITES
G/G-5	2F- 7	20-24	2F- 7	BOMARC B PRE-LAUNCH

NOTE- CONNECTIONS TO G/G,G/A AND TTY FROM COMPUTERS A AND B ARE BROUGHT TOGETHER AT THE SIMPLEX DATA DISTRIBUTION UNIT

6.3.1 GROUND TO GROUND DATA LINK OUTPUT USE ANALYSIS MATRIX

LINE NO.	LATERAL-TELLING	HEIGHT FINDER	FORWARD-TELLING	AADCP	BOMARC B PRE-LAUNCH	BACK-TELLING	CC LATERAL TELLING
1	X		X				
2		X					
3							
4							
5							

15 MAY 1963

19

TM(ADC)820/292/01

6.4.0 GROUND TO AIR DATA LINK OUTPUT ASSIGNMENTS

OUTPUT LINE	TELCO TERMINAL	I.B.M. TERMINAL	FUNCTION
	OUTPUT SECTION ADDRESS 1		
G/A-1	2F- 1	2F- 1	FD RADIO SITES
G/A-2	2F- 2	2F- 2	
	OUTPUT SECTION ADDRESS 6		
G/A-3	2F- 8	2F- 8	BOMARC A SITES
G/A-4	2F- 9	2F- 9	
	OUTPUT SECTION ADDRESS 7		
G/A-5	2F-10	2F-10	
G/A-6	2F-11	2F-11	
	OUTPUT SECTION ADDRESS 5		
G/A-7	2F-13	2F-13	TD RADIO SITES C-36, C-52, C-53, C-54, M-98, P-24, P-25, P-26, P-27, TM-178, TM-179, SM-147, C-51, R-19, TM-177
G/A-8	2F-12	2F-12	

6.4.1 GROUND TO AIR DATA LINK OUTPUT USE ANALYSIS MATRIX

LINE NO.	TDDL	FDDL	BOMARC A
1			
2			
3			
4			
5			
6			
7	X		
8			

15 MAY 1963

20

TM(ADC)820/292/01

6 .5 TELETYPE OUTPUT ASSIGNMENTS

OUTPUT SECTION ADDRESS 3

OUTPUT LINE	TELCO TERMINAL	I.B.M. TERMINAL	ORA	SITE NAME	TYPE
TTY- 1	2B- 1	2B- 1			
TTY- 2	2B- 2	2B- 2			
TTY- 3	2B- 3	2B- 3	2	HAVRE, MONTANA	NCC
TTY- 4	2B- 4	2B- 4			
TTY- 5	2B- 5	2B- 5			
TTY- 6	2B- 6	2B- 6			
TTY- 7 THRU TTY-23 NOT USED					
TTY-24	2B-24	2B-24	23	QUALITY CONTROL	
TTY-25	2B-25	2B-25	24	FIX	

6 .6 LATERAL-TELL ROUTING TABLE - FIRST STOP

SECTOR DSG	SECTOR REFERENCE NUMBER				
	1ST ROUTE	2ND ROUTE	3RD ROUTE	4TH ROUTE	5TH ROUTE
1 THRU 6	NOT USED				
7	4				
8 THRU 9	NOT USED				
10	4				
11	4				
12	9	5			
13	5	9			
14	4				
15	9				
16	5				
17 THRU 20	NOT USED				
21	5				
22	4				
23 THRU 31	NOT USED				

NOTE - THE ROUTING TABLES WILL BE REVISED WHEN NEW LATERAL-TELL CIRCUITS ARE INSTALLED.

15 MAY 1963

21  
(last page)

TM(ADC)820/292/01

6.7 ADDITIONAL DATA FOR CXI AND CXO

RCC/DC INDICATOR

THE COMBAT CENTER FOR THE 29TH  
REGION IS LOCATED AT AN RCC

7.0 MANUAL INPUTS

SSR*		NORAD	TYPE IF	
NO.	NAME/IDENT	DESIG.	OR AEW	MAGNETIC VARIATION FOR AEW
01	STONEY MOUNTAIN	HS		
02	BIRD	HB		
03	CRANBERRY PORTAGE	HC		
04	DAWSON CREEK	HD		
05	C-36	AQ		
06	TM-201	PF		
07	29TH NR(SAGE)CC	LT		
08	MSS-1 DENVER	LV		
09	MSS-2 SALT LAKE	XF		
10	C-153	YF		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

\* SSR NUMBER BASED ON IMPLEMENTATION OF SPCR 1372



15 May 1963

TM(ADC) 820/292/01

DISTRIBUTION LIST

PIR-A #4 WECO Group A - New York (5 and 1 vellum)  
WECO - Santa Monica (room 3311B)

PIR-A #5 IBM - Kingston (6 and 1 vellum)  
IBM - Santa Monica (room 3311A)

PIR-A #31 ADC - CCDSO (3)  
AD4SY

PIR-A #36 ADC DIV SEC HQ  
29th Division HQ  
GFADS  
GRADS  
SCADS  
READS  
SEADS

PIR-A #41 ADC HQ and NORAD  
ADCOOP-EO  
ADCOAC-EE (Mr. R. W. Carvill)

PIR-A #48 HQ ESD  
ESSGL 416L

APASTO

AD8CP-E  
AD8CP-T

SYSTEM DEVELOPMENT CORPORATION

USG Sec 2 (3) 4345  
USG DAS (6) 4365  
PPB SSG System Data (2) 20157  
STB Run Designer 4770  
PIG Control Office Phoenix  
TIS, AG, TSB, FOD 21016  
FIB Group Head - Grandview  
FIB Team Head - Malmstrom  
Grand Forks  
Sioux City  
McChord  
Luke

RCAF

F/Lt G. R. Todd  
RCAF  
Santa Monica, California  
Air Officer Commanding, ADC HQ (3)  
RCAF Station  
St. Hubert, Quebec, Canada  
CAS AFHQ, Attn: DRDP/RPD 3  
Ottawa, Ontario, Canada (3)

UNCLASSIFIED

System Development Corporation,  
Santa Monica, California  
RECON 515 SAGE UNIQUE-TO-SITE  
ENVIRONMENTAL DATA AND EQUIPMENT  
ASSIGNMENTS GREAT FALL ADS.  
Scientific rept., TM(ADC)-820/292/01,  
by D. M. McDaniel. 15 May 1963, 21p.  
(Contract AF 19(628)-1648, Air  
Defense Command Program, for Air  
Defense Command)

Unclassified report

DESCRIPTORS: Air Defense Command.

Identifiers: SAGE Model 9.

UNCLASSIFIED

---

Supersedes TM(ADC)-820/292/00, dated  
7 November 1962. Contains the  
official SAGE unique-to-site environ-  
mental data and equipment assignments  
to be used in adapting the Model 9  
computer programs and in Simplex Data  
Distribution Unit terminal assign-  
ments for the Great Falls Air Defense  
Sector.

UNCLASSIFIED

UNCLASSIFIED