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AD 404697

# TECHNICAL MEMORANDUM

(TM Series)

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

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

by

D. M. McDaniel

15 October 1962

SYSTEM

DEVELOPMENT

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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 "▷" 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
VOLUMES	250 through 351	SAGE Unique-to-Site Environmental Data and Equipment Assignments

15 October 1962

2

TM(ADC)820/253/00

LIST OF EFFECTIVE PAGES

This page is reserved for future use and will contain a list of effective pages and thus provide current status of each page.

PAGE NUMBER	CHANGE LETTER	PUBLICATION DATE	PAGE NUMBER	CHANGE LETTER	PUBLICATION DATE

15 October 1962

3

TM(ADC)820/253/00

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

15 October 1962

4

TM(ADC)820/253/00

**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  
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**E. W. METZGER, JR.  
Lieutenant Colonel, USAF  
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USER COMMITTEE SIGNATURES

	APPROVAL	CONCURRENCE	REVIEW
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IEM <i>D. C. Lee</i>			<i>D. C. Lee</i>

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

- Section 2.4 IRI 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 BOUNDARIES
    - 1.1.2 MODE II BOUNDARIES
  - 1.2 MAJOR WORLD GEOREFS SURROUNDING X1 AREA
  - 1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS
  - 1.4 LAND SEA LINES
  - 1.5 AIR DEFENSE IDENTIFICATION ZONE - ADIZ/CADIZ
  - 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 BASFS
- 4.0 BOMARC DATA
  - 4.1 BOMARC A BASES
  - 4.2 BOMARC B BASFS
- 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

## 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 X1 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

## 1.3 ADJACENT AUTOMATIC AND MANUAL SECTORS

AUTOMATIC SECTORS	AUTO		SECTOR REF NO (EQ.ID)	AMP NO.	SWITCH CODE	MAN	
	LTR DSG					LTR DSG	MANUAL SECTORS**
			10		0		
PORTLAND DC	M		1	013	1		
SEATTLE DC	G		2	012	2		
			3		3		
			4		4	YO	SASKATOON
RENO RCC/DC	X		5	016	5	YF	KAMLOOPS
			6		6		
GREAT FALLS DC	A		7	020	7		
			8		8		
			9		9		

\*\*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		051 00 00	129 45 00
01	COASTAL CADIZ POINTS	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

1.6 SECTOR MINIMUM ENROUTE ALTITUDE. 16,500 FEET

1.7 TACAN TRANSMITTER NEAREST SECTOR CENTER

LATITUDE      LONGITUDE  
047 13 39      119 17 11

1.8 MAGNETIC DECLINATION LINES

MAGNETIC DECLINATION AT SECTOR CENTER 23 DEGREES EAST

LINE NO.	DECLINATION	NORTHERN POINTS		SOUTHERN POINTS	
		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
1	32 DEG E	061 08 00	115 00 00	059 00 00	122 00 00
2	30 DEG E	059 00 00	115 00 00	057 00 00	121 10 00
3	28 DEG E	058 08 00	113 00 00	055 00 00	121 20 00
4	26 DEG E	055 30 00	114 00 00	052 00 00	123 00 00
5	24 DEG E	053 00 00	114 45 00	050 00 00	121 00 00
6	22 DEG E	051 00 00	112 10 00	047 00 00	121 15 00
7	20 DEG E	047 20 00	114 00 00	043 44 00	120 00 00
8	18 DEG E	047 00 00	109 50 00	042 00 00	117 00 00

1.9 X2 DISPLAY DATA

X2 DISPLAY CENTER		X2 DISPLAY VERTICES	
LATITUDE	LONGITUDE	LATITUDE	LONGITUDE
049 56 12	120 51 53	1 NE	055 48 18
		2 SE	043 17 03
		3 SW	043 13 18
		4 NW	055 43 00

## 2.0 RADAR DATA

2.1 LONG RANGE RADARS,  
LRR-HF-ALRR

## MULTIPLEXED GAP FILLER RADARS

SWCH CODE*	SITE DESIG	NO.OF TIED HF,S	LTR DSG	MODE	AMP NO.	SWCH CODE	SITE DESIG	SWCH CODE	SITE DESIG
0									
1	P-46	2	B	IIB/OL	102				
2	RP-1	2	C	IIB/OL	138				
3	P-44	2	D	IIB	099				
4	**SM-151	2	E	I	158				
5	**P-40	2	F	I	097	0		3	
						1	P-40B	4	
						2	P-40C	5	
6	TM-179	2	G	IIA/OL	173				
7	**SM-150	2	H	I	157				
8	**P-32	2	J	I	090				
9	**C-21	2	K	I	021				
10	C-18	2	L	IIB	017				
11	C-19	2	M	IIB	018				
12	C-54	2	N	IIA/OL	031				
13	**C-153	2	P	I	159				

\*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

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

▷ GFR IDENTITY NUMBER AND SWITCH CODE BASED ON IMPLEMENTATION OF SPCR 1579

15 OCTOBER 1962

11

TM(ADC)820/253/00

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

LATITUDE      LONGITUDE

## 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	

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

## 3.0 AIRBASE DATA

## 3.1 MANNED INTERCEPTOR AIR BASES AND SQUADRONS

REF*	NAME	DSG	MODE-TYPE INDICATOR				SWCH CODE	SQUADRONS		AMP NO.
			I	IIA	IIB	MODE		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 ANF	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	NAMAO 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	BOISE IDA	BOI	S	S	S	OL	0	DET 2	PN	010

\*SAME AS A/B CHANNEL NUMBER PLUS ONE

## 3.2 SAC BASES

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

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



## 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

SWCH 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

\*GAT SITE BUTTON NO.

## 6.2 LATERAL-TELL INPUT CHANNEL ASSIGNMENTS

SITE LOCATION NAME AND TYPE	TELCO TERMINAL	I.B.M. TERMINAL	CHANNEL NUMBER	SITE IDENT
GREAT FALLS DC	1F- 1	1F- 1	1	0111
SEATTLE DC	1F- 2	1F- 2	2	0010
RENO RCC/DC	1F- 3	1F- 3	3	0101
PORTLAND DC	1F- 4	1F- 4	4	0001
SEATTLE CC	1F- 5	1F- 5	5	0011
SEATTLE MM	1E- 6	1E- 7	7	1100
FAIRCHILD BIRDIE	1E- 7	1E- 8	8	1110
	1E- 8	1E- 9	9	

ALL REMAINING CHANNELS UNUSED

LATERAL-TELLING ADDRESS FOR SPOKANE DC IS 1001

6.3 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 SEATTLE, PORTLAND, GREAT FALLS, RENO
G/G-2	2F- 4	5-9	2F- 4	HEIGHT-FINDERS C-18, C-19, C-21, C-54, P-32, P-40, P-44, P-46, RP-1, SM-150, SM-151, C-153, TM-179
G/G-3	2F- 5	10-14	2F- 5	FORWARD-TELLING SEATTLE CC
G/G-4	2F- 6	15-19	2F- 6	ADA SITES SEATTLE, FAIRCHILD
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

## 6.4 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-18, C-19, C-21, C-54, P-32, P-44, P-46, SDC-15, SM-151, C-153, TM-179
G/A-8	2F-12	2F-12	

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	1	OTHELLO, WASH	NCC
TTY- 3	2B- 3	2B- 3	2	SACKATOON, ALB	MDC
TTY- 4	2B- 4	2B- 4	3	KAMLOOPS, BC	MDC
TTY- 5	2B- 5	2B- 5			
TTY- 6	2B- 6	2B- 6			
TTY- 7	2B- 7	2B- 7	6	* SEATTLE	NCC
TTY- 8 THRU TTY-23	NOT USED				
▷ TTY-24	2B-24	2B-24	23	QUALITY CONTROL	
TTY-25	2B-25	2B-25	24	FIX	

\* P.O. date not known

15 OCTOBER 1962

17

TM(ADC)820/253/00

(last page)

6.6 LATERAL-TELL ROUTING TABLE - FIRST STOP

SECTOR DSG	SECTOR REFERENCE NUMBER				
	1ST ROUTE	2ND ROUTE	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 I AND II	AEW	GU	10			
02				11			
03				12			
04	STA I AND II	PV	GT	13			
05				14	DAWSON CREEK	MCL	HD
06				15	C-21	MDC	YO
07				16	C-153	MDC	YF
08				17			
09				18			

15 October 1962

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C.D.HAYWARD 4241  
J.J.LAGAS 4365A  
D.M.MCDANIEL 4356  
A.B.ROBINSON 24190A  
G.W.STEHLE 20157A  
R.J.WERNER 4356

15 October 1962

TM(ADC)820/253/00

SYSTEM DEVELOPMENT CORPORATION (cont)

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FIB TEAM HEAD MCCHORD

FIB TEAM HEAD ADAIR

FIB TEAM HEAD LARSON

MCCHORD (3)

ADAIR (3)

LARSON (3)

T.F.MARKS - PHOENIX

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System Development Corporation,  
Santa Monica, California  
SAGE UNIQUE-TO-SITE ENVIRONMENTAL  
DATA AND EQUIPMENT ASSIGNMENTS,  
SPOKANE ADS.  
Scientific rept., TM(ADC)-820/253/00,  
by D. M. McDaniel. 17p.  
(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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Contains the official SAGE unique-to-site  
environmental data and equipment assignments  
to be used in adapting the Model 9  
computer programs and in Simplex Data  
Distribution Unit terminal assignments  
for the Spokane Air Defense Sector.

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