

**INFO ONLY**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CEBUS **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1  
**LATITUDE/LONGITUDE:** 474620.98N/1171816.67W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY  
**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

<b>FIX USE:</b>						
<b>USE TYPE</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
IAP	RNAV (GPS) Y RWY 21			KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 21			KGEG	SPOKANE	WA (US)

**REQUIRED CHARTING:** IAP  
**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 11/18/2010

**REASON FOR REVISION:**  
 MOVED 2803.16FT NE FROM: 474601.66N/1171846.04W, FOR DG ON RNP PROC.  
 REMOVED FAC 1 DATA, NO LONGER REQUIRED.  
 UPDATED FIX USE.  
 REMOVED HOLDING REMARKS.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>DEVELOPED BY:</b>	<b>DATE:</b> 04/26/2010	<b>OFFICE:</b> AVN-130	<b>NAME:</b> ROY CURRIE
<b>APPROVED BY:</b>	<b>DATE:</b> 10/19/2010	<b>OFFICE:</b> AVN-130	<b>NAME:</b> DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**  
**FPO:** WST  
**ARTCC:** ZSE  
**ATC FACILITY:** KGEG ATCT  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: GANGS

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 473010.62N/1175559.74W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SPOKANE	GEG	VORTAC	H	232.48	253.48	13.00	13.00		5000	17500
2	PULLMAN	PUW	VOR/DME	L	309.93	329.93		57.63		5000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PUW	VOR/DME	R-310	58	5000	17500

## FIX RESTRICTIONS:

SPECIAL RNAV VISUAL RWY 8, KEGG, SPOKANE, WA

## HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW		WP	236.48	056.48	R		5	5000	6000	6	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	473406.00N/1175318.00W	3134	3E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
SPOKANE (FAC 1) AND PULLMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2	1, 2				(US)
EN ROUTE	V448	1, 2				(US)
IAP	RNAV (GPS) Y RWY 21		1	KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 26		1	KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 21		1	KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 26		1	KGEG	SPOKANE	WA (US)
IAP	RNAV VISUAL RWY 8			KGEG	SPOKANE	WA (US)
STAR	ZOOMR	1, 2		KGEG	SPOKANE	WA (US)
STAR	ZOOMR	1, 2		KSFF	SPOKANE	WA (US)
STAR	ZOOMR	1, 2		KSKA	SPOKANE	WA (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

CHANGED PAT 1 CRS INBOUND FROM 052.48 TO 056.48 AND RAD/CRS/BRG FROM 232.48 TO 236.48.  
CHANGED FIX RESTRICTIONS: SPECIAL RNAV VISUAL RWY 7, KEGG, SPOKANE, WA TO SPECIAL RNAV VISUAL RWY 8, KEGG, SPOKANE, WA.  
CHANGED PAT 1 CONTROLLING OBSTACLE ACCURACY CODE FROM 4E TO 3E.  
UPDATED FIX USE - CHANGED KGEG RNAV (GPS) Y RWY 25 TO RNAV (GPS) Y RWY 26, KGEG RNAV (RNP) Z RWY 25 TO RNAV (RNP) Z RWY 26 AND KGEG RNAV VISUAL RWY 7 TO RNAV VISUAL RWY 8.  
CHANGED REQUIRED CHARTING: CONTROLLER TO CONTROLLER LOW.  
ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES IN REMARKS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/22/2018

OFFICE: AJV-5433

NAME: DIANE LAIR

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

**DISTRIBUTION:**    **NFDC**  
                         **FPO:** WST  
                         **ARTCC:** ZSE  
                         **ATC FACILITY:** GEG ATCT  
                         **OTHER:** MWH ATCT

# RADIO FIX AND HOLDING DATA RECORD

NAME: HILIE STATE: ID COUNTRY: US ICAO REGION CODE: K1  
 LATITUDE/LONGITUDE: 473105.33N/1164122.93W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	MULLAN PASS	MLP	VOR/DME	H	260.33	275.33	42.63	42.63	9100	45000
2	COEUR D'ALENE	COE	VOR/DME	T	141.86	160.86	16.23	16.23	9100	17500
3	SPOKANE	GEG	VORTAC	H	072.87	093.87	38.20	38.20	9100	45000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MLP	VOR/DME	R-260	43	9100	21000
COE	VOR/DME	R-142	17	14300	17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

MULLAN PASS (FAC 1) AND COEUR D'ALENE (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J136	1, 3				(US)
EN ROUTE	V2	1, 2, 3				(US)
IAP	ILS OR LOC/DME RWY 6	2		KCOE	COEUR D'ALENE	ID (US)
IAP	VOR/DME RWY 2	1, 2		KCOE	COEUR D'ALENE	ID (US)
IAP	RNAV (GPS) Y RWY 21			KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 26			KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 3			KGEG	SPOKANE	WA (US)
IAP	ILS OR LOC RWY 22R	2		KSFF	SPOKANE	WA (US)
STAR	HILIE	1, 2, 3		KGEG	SPOKANE	WA (US)
STAR	HILIE	1, 2, 3		KSFF	SPOKANE	WA (US)
STAR	HILIE	1, 2, 3		KSKA	SPOKANE	WA (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

UPDATED FIX USE - CHANGED KGEG RNAV (GPS) Y RWY 25 TO RNAV (GPS) Y RWY 26.  
 CHANGED REQUIRED CHARTING: CONTROLLER TO CONTROLLER LOW AND CONTROLLER HIGH.  
 CHANGED FAC 1, 2, 3 MRA FROM 9000 TO 9100.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 05/22/2018	OFFICE: AJV-5433	NAME: DIANE LAIR
APPROVED BY:	DATE:	OFFICE: AJV-5430	NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION: NFDC  
 FPO: WST  
 ARTCC: ZSE  
 ATC FACILITY: GEG APP CON  
 OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: IRUHO

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 473051.66N/1174137.20W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

IAP  
IAP

USE TITLE

RNAV (GPS) Y RWY 21  
RNAV (RNP) Z RWY 21

FAC

PAT

AIRPORT IDENT

KGEG  
KGEG

CITY

SPOKANE  
SPOKANE

STATE

WA (US)  
WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/10/2011

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/30/2010

OFFICE: AVN-130

NAME: ROY CURRIE

APPROVED BY:

DATE: 12/06/2010

OFFICE: AVN-130

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: KGEG APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SIGYO

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 474113.17N/1172602.88W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SPOKANE	I-GEG	LOC/DME		031.51	045.51	6.76	6.76	41073	3900	6800

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DME ANTENNA COORDINATES: 473632.05N-1173315.10W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 21	1		KGEG	SPOKANE	WA (US)
IAP	ILS RWY 21 (CAT II)	1		KGEG	SPOKANE	WA (US)
IAP	ILS RWY 21 (CAT III)	1		KGEG	SPOKANE	WA (US)
IAP	ILS RWY 21 (SA CAT I)	1		KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 21			KGEG	SPOKANE	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/13/2018

## REASON FOR REVISION:

1. CHANGED FAC 1 MAG BRG FROM 29.51 TO 31.51.
2. ADDED ILS RWY 21 (SA CAT I) AT KGEG TO FIX USE.
3. UPDATED FIX COORDINATES, MOVED 2 FEET S.
4. CHANGED FAC 1 DIST FROM FAC 41075 FT TO 41073 FT.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/23/2018

OFFICE: AJV-5431

NAME: LIAM DONAHUE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY: KGEG ATCT  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WATRU **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 475218.09N/1173829.42W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

<b>FIX USE:</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
<b>USE TYPE</b>	RNAV (GPS) Y RWY 21			KGEG	SPOKANE	WA (US)
IAP						

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 11/18/2010

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>DEVELOPED BY:</b>	<b>DATE:</b> 08/13/2010	<b>OFFICE:</b> AVN-130	<b>NAME:</b> ROY CURRIE
<b>APPROVED BY:</b>	<b>DATE:</b> 10/19/2010	<b>OFFICE:</b> AVN-130	<b>NAME:</b> DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY: KGEG ATCT  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ZOOMR **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 472531.89N/1181833.62W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	SPOKANE	GEG	VORTAC	H	232.48	253.48	29.00	29.00	5000	45000
2	PULLMAN	PUW	VOR/DME	L	295.75	315.75		63.39	5000	17500
3	EPHRATA	EPH	VORTAC	H	064.99	085.99	45.52	45.52	5000	45000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PUW	VOR/DME	R-296	64	5000	17500
EPH	VORTAC	R-065	46	5000	25000

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

SPOKANE (FAC 1) AND PULLMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES  
AIR TRAFFIC COORDINATION FIX

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	Q144					(US)
EN ROUTE	V2	1, 2, 3				(US)
EN ROUTE	V448	1, 2, 3				(US)
IAP	RNAV (GPS) Y RWY 21			KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 26			KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 3			KGEG	SPOKANE	WA (US)
IAP	RNAV (GPS) Y RWY 8			KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 21			KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 3			KGEG	SPOKANE	WA (US)
IAP	RNAV (RNP) Z RWY 8			KGEG	SPOKANE	WA (US)
STAR	ZOOMR	1, 2, 3		KGEG	SPOKANE	WA (US)
STAR	ZOOMR	1, 2, 3		KSFF	SPOKANE	WA (US)
STAR	ZOOMR	1, 2, 3		KSKA	SPOKANE	WA (US)

**REQUIRED CHARTING:** STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8

**DATE OF REVISION:** 09/13/2018

**REASON FOR REVISION:**

CHANGED FIX MAKE-UP FACILITIES: FAC 2 TRUE BRG FROM 315.74 TO 315.75 AND MAG BRG FROM 295.74 TO 295.75.  
UPDATED FIX USE - CHANGED KGEG RNAV (GPS) Y RWY 25 TO RNAV (GPS) Y RWY 26, KGEG RNAV (GPS) Y RWY 7 TO RNAV (GPS) Y RWY 8 AND KGEG RNAV (RNP) Z RWY 7 TO RNAV (RNP) Z RWY 8.  
CHANGED REQUIRED CHARTING: CONTROLLER TO CONTROLLER LOW AND CONTROLLER HIGH.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>DEVELOPED BY:</b>	<b>DATE:</b> 05/22/2018	<b>OFFICE:</b> AJV-5433	<b>NAME:</b> DIANE LAIR
<b>APPROVED BY:</b>	<b>DATE:</b>	<b>OFFICE:</b> AJV-5430	<b>NAME:</b> PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY: SPOKANE APP CON, GEG ATCT  
OTHER: