

Flight Procedure Tracking Form		Action: FLIGHT CHECK	Task Type: GRAPHICAL DP	Date Open: 07/17/2012	Task #: 2012071728269501001	Request #: 20120717282695
Procedure: LEVEL ISLAND (OBSTACLE) TWO WRANGLE AK PAWG			Airport ID: PAWG	Airport: WRANGELL		Reimbursable #:
City: WRANGELL		ST: AK	GPS #:		Estimated Chart Date: 06/27/2013	FICO #:
Fac ID:		Fac. Type: <i>proc T</i>	Specialist: JIMMY HUGHES			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	09/07/2012	01/31/2013	VICTOR NASO	MAG VAR <i>pl</i>
QA:	01/31/2013	02/12/2013	STEVEN SZUKALA	
Liaison:	02/12/2013		<i>Squirin</i>	

HARD DATE - MAGVAR - WAIVER

Procedure Comments:	ENROUTE-NON	Remark Type: INFORMATION	<i>peg 1.02</i>
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WRANGELL, AK WRANGELL (PAWG) LEVEL ISLAND TWO (SID) ENROUTE-NO HARD DATE: 6.27.13

ATTACHED FORMS: 8260-15B; 8260-2(S): JUMKI-INT, REV 1; LEVEL ISLAND (LVD) VDME, REV 7.

CONTACT: PETE GETZ/LONNIE EVERHART-AVN-130 LEADS, 405.954.2079/ 405.954.4576.

new

(LVD2.LVD) FIG

SL-5874 (FAA)

WRANGELL (WRG) (PAWG)

LEVEL ISLAND TWO DEPARTURE (OBSTACLE)

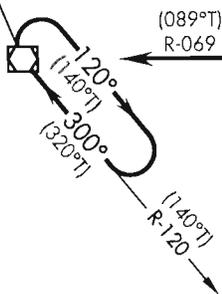
WRANGELL, ALASKA

ANCHORAGE CENTER
118.0
SITKA RADIO
122.45
CTAF
122.6

PROTOTYPE-NOT FOR NAVIGATION

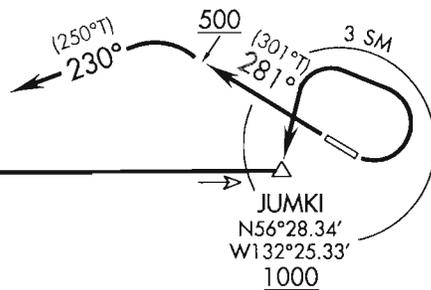
LEVEL ISLAND
116.5 LVD 
Chan 112
N56°28.06' W133°04.99'

AL-1, AH-1



(089°T)
R-069

(269°T)
249°
(22)



JUMKI
N56°28.34'
W132°25.33'
1000

NOTE: Rwy 10, DME required.

NOTE: Rapidly rising terrain south/southwest and east/northeast of airport to above 2500' within 3 miles of airport.

TAKEOFF MINIMUMS

Rwy 10: 1000-3.

Rwy 28: Standard with minimum climb of 280' per NM to 1100.

TAKEOFF OBSTACLE NOTES

Rwy 10: Trees and rising terrain beginning 52' from DER, 253' right of centerline, up to 148' AGL/1241' MSL.

Rwy 28: Trees and rising terrain beginning 84' from DER, 266' left of centerline, up to 23' AGL/122' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 10: Turn left as soon as practicable, climb in visual conditions until established on LVD R-069 at JUMKI/LVD 22 DME fix on a westerly course (visual conditions must be maintained from takeoff until established over JUMKI at/above 1000). Cross JUMKI at or above 1000 then climb on LVD R-069 to LVD VOR/DME. Thence

TAKEOFF RWY 28: Climb heading 281° to 500 then climbing left turn heading 230° to intercept LVD R-069 to LVD VOR/DME. Do not exceed 180 knots until established on LVD R-069 westbound. Thence

. . . . Continue climb in hold to MEA for route of flight.

LEVEL ISLAND TWO DEPARTURE (OBSTACLE)

(LVD2.LVD) FIG

WRANGELL, ALASKA
WRANGELL (WRG) (PAWG)

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.
Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LEVEL ISLAND	TWO	LVD2.LVD	ONE	08/25/2011	06/27/2013

TYPE: OBSTACLE

DP ROUTE DESCRIPTION:

TAKEOFF RWY 10: TURN LEFT AS SOON AS PRACTICABLE, CLIMB IN VISUAL CONDITIONS UNTIL ESTABLISHED ON LVD R-069 AT JUMKI/LVD 22.00 DME FIX ON A WESTERLY COURSE (VISUAL CONDITIONS MUST BE MAINTAINED FROM TAKEOFF UNTIL ESTABLISHED OVER JUMKI AT/ABOVE 1000.) CROSS JUMKI AT OR ABOVE 1000 THEN CLIMB ON LVD R-069 TO LVD VOR/DME. THENCE...

TAKEOFF RWY 28: CLIMB HEADING 281.40 TO 500 THEN CLIMBING LEFT TURN HEADING 230 TO INTERCEPT LVD R-069 TO LVD VOR/DME. DO NOT EXCEED 180 KNOTS UNTIL ESTABLISHED ON LVD R-069 WESTBOUND. THENCE...

....CONTINUE CLIMB IN HOLD (SE, RT 300.29 INBOUND) TO MEA FOR ROUTE OF FLIGHT.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

TAKEOFF MINIMUMS:

RWY 10, 1000-3

RWY 28, STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 1100.

NOTE: RWY 10, DME REQUIRED

NOTE: RAPIDLY RISING TERRAIN SOUTH/SOUTHWEST AND EAST/NORTHEAST OF AIRPORT TO ABOVE 2500 FEET WITHIN 3 MILES OF AIRPORT.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 10, TREES AND RISING TERRAIN BEGINNING 52 FT FROM DER, 253 FT RIGHT OF CENTERLINE, UP TO 148 FT AGL/1241 FT MSL.

NOTE: RWY 28, TREES AND RISING TERRAIN BEGINNING 84 FT FROM DER, 266 FT LEFT OF CENTERLINE, UP TO 23 FT AGL/122 FT MSL.



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GRAPHIC DEPARTURE PROCEDURE (DP)**

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Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LEVEL ISLAND	TWO	LVD2.LVD	ONE	08/25/2011	06/27/2013

CONTROLLING OBSTACLES:

RWY 28: 599 FT MSL AAO 563058.22N/1322805.41W, 517 FT MSL TREE 562834.39N/1322308.10W, 1399 FT MSL AAO 562546.13N/1323019.19W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 10 – 3000 FT MSL AAO 562613.60N/1321836.40W, 3500 FT MSL AAO 562319.50N/1322924.10W, 3947 FT MSL AAO 563231.60/1321916.00W, 1876 FT MSL TREE 563139.05N/1322718.19W, 10223 FT MSL AAO 570233.70N/1320250.60W.

RWY 28 – 3000 FT MSL AAO 562613.60N/1321836.40W, 3500 FT MSL AAO 562319.50N/1322924.10W, 3947 FT MSL AAO 563231.60/1321916.00W, 1876 FT MSL TREE 563139.05N/1322718.19W, 10223 FT MSL AAO 570233.70N/1320250.60W, 799 FT MSL AAO 563101.17N/1322802.07W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: 3 SM CIRCLE AROUND PAWG.
CHART: HOLDING AT LVD VOR/DME, HOLD SE, RT, 300 INBOUND.

AIRPORTS SERVED:

WRANGELL

WRANGELL, AK

COMMUNICATIONS:

CTAF, ANCHORAGE CENTER APP/DEP CON, SIT FSS

FIXES AND/OR NAVAIDS:



**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)**

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Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LEVEL ISLAND	TWO	LVD2.LVD	ONE	08/25/2011	06/27/2013

REMARKS:

VCOA NOT ESTABLISHED AT ATC REQUEST DUE TO POTENTIAL FOR CONFUSION WHEN APPLYING NONSTANDARD VISUAL DEPARTURE PROCEDURES OFF RWY 10 WITH WEATHER MINIMUMS OF 1000-3 AND A VISUAL CLIMB OVER AIRPORT (VCOA) OFF RWY 28 WHICH WOULD HAVE HAD WEATHER MINIMUMS OF 2900-2.

280 FT CG PULLED TRAP BACK FAR ENOUGH TO AVOID ADDITIONAL HIGH TERRAIN.

180 KNOT SPEED RESTRICTION FOR DEPARTURES OFF RWY 28 UNTIL ESTABLISHED ON LVD R-069 TO AVOID ADDITIONAL TERRAIN OUTSIDE THE SMALLER TURNING RADIUS.

PROCEDURE ORIGINALLY DEVELOPED AS A TEXTUAL DEPARTURE, FLIGHT CHECK SENT BACK DIRECTING GRAPHIC DEPICTION.



**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.
Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LEVEL ISLAND	TWO	LVD2.LVD	ONE	08/25/2011	06/27/2013

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

DEVELOPED BY:

JIMMY S. HUGHES AJV-354 09/17/2012

APPROVED BY:

DEZ SILAGYI AJV-354

COORDINATED WITH:

CHANGES:

1. CHANGED HEADING LVD R-061 TO LVD R-069 IN ALL INSTANCES.
2. CHANGED RUNWAY 28 CLIMB HEADING 277.40 TO 281.40.

REASONS:

1. LVD VOR/DME ROTATED FROM 28E TO 20E.
2. APT MAGVAR CHANGED FROM 24E TO 20E.



RADIO FIX AND HOLDING DATA RECORD

NAME: JUMKI

STATE: AK

COUNTRY: US

LATITUDE/LONGITUDE: 562820.41N/1322519.54W

TYPE: 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	MRA	MAA
								NM FEET		
1	LEVEL ISLAND	LVD	VOR/DME	H	069.00	089.00	22.00	22.00	1000	14500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LEVEL ISLAND	1		PAWG	WRANGELL	AK (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/27/2013

REASON FOR REVISION:

1. FAC 1 MAG BRG CHANGED FROM 061 TO 069, DUE TO LVD MAGVAR ROTATION FROM 28E TO 20E.

DEVELOPED BY: DATE: 09/17/2012 OFFICE: AJV-354 NAME: JIMMY HUGHES

APPROVED BY: DATE: OFFICE: AJV-354 NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: NFDC
FPO: WST
ARTCC: ZAN
ATC FACILITY:
OTHER: SIT FSS



RADIO FIX AND HOLDING DATA RECORD

NAME: LEVEL ISLAND VOR/DME STATE: AK COUNTRY: US

LATITUDE/LONGITUDE: 562803.75N/1330459.21W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	LEVEL ISLAND	LVD	VOR/DME	H						45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LVD	VOR/DME	R-298	74	9000	14100

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	SE	LVD	VOR/DME	128.29	308.29	R	1-1 1/2		6000	17500	7	16
2	SE		WP	120.29	300.29	R		6	6000	17500	8	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	562041.30N/1325144.30W	2644	6A
1	310	AAO	561527.60N/1323334.70W	4120	6A
2	230	AAO	562041.30N/1325144.30W	2644	6A
2	310	AAO	561527.60N/1323334.70W	4120	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	149
1	310	190
2	230	149
2	310	207

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	LEVEL ISLAND	PAWG	WRANGELL	AK (US)
1	LDA/DME-D	PAPG	PETERSBURG	AK (US)
2	RNAV (GPS) -B	PAPG	PETERSBURG	AK (US)

REMARKS:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JUNEAU			PAJN	JUNEAU	AK (US)
DP	KAKE			PAFE	KAKE	AK (US)
DP	PETERSBURG	1		PAPG	PETERSBURG	AK (US)
DP	LEVEL ISLAND		1	PAWG	WRANGELL	AK (US)
EN ROUTE	J502					(US)
EN ROUTE	T241					(US)
EN ROUTE	T280					(US)
EN ROUTE	V317		1			(US)
EN ROUTE	V318					(US)
EN ROUTE	V473					(US)
IAP	LDA/DME RWY 23		1	PAPG	PETERSBURG	AK (US)
IAP	LDA/DME-D		1	PAPG	PETERSBURG	AK (US)
IAP	RNAV (GPS) -B		2	PAPG	PETERSBURG	AK (US)
IAP	LDA/DME-C		1	PAWG	WRANGELL	AK (US)
IAP	LDA/DME-D		1	PAWG	WRANGELL	AK (US)
IAP	RNAV (GPS) RWY 10			PAWG	WRANGELL	AK (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/27/2013

REASON FOR REVISION:



- 1. UPDATED FIX USE.
- 2. UPDATED FAC 1 WITH NEW PENDING RECORD.
- 3. LOWERED MINIMUM HOLDING ALTITUDE FOR PAT 1 FROM 7000 TO 6000 AND MIN TEMPLATE FROM 8 TO 7.
- 4. CHANGED PAT 1 CRS INBOUND FROM 300.29 TO 308.29.
- 5. LOWERED PAT 2 FROM LEG LENGTH FROM 8 TO 6.

DEVELOPED BY: **DATE:** 09/14/2012 **OFFICE:** AJV-354 **NAME:** JIMMY HUGHES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZAN
 ATC FACILITY:
 OTHER:

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

WRANGELL AIRPORT (WRG) (PAWG)
WRANGELL, AK.
LEVEL ISLAND DEPARTURE (OBSTACLE)

2. Waiver Required and Applicable Standard: **RELOCATE THE INITIAL DEPARTURE SEGMENT TO A SPECIFIC POINT WITH A ROUTE OF FLIGHT TO BE FLOWN AT A PREDETERMINED START ALTITUDE THAT ALLOWS FOR OBSTACLE CLEARANCE.**

TERPS VOL IV, PARA 1.6 AND TABLE 1 OF 8260.46D INITIAL CLIMB AREA: THIS SEGMENT STARTS AT THE DER AND PROCEEDS ALONG RUNWAY CENTERLINE EXTENDED TO ALLOW AIRCRAFT TO REACH AN ALTITUDE OF 400 FEET ABOVE DER.

THIS IS AN ADMENDMENT TO A CURRENT AND APPROVED WAIVER. REASON FOR UPDATE IS DUE TO A MAGVAR CHANGE AT AIRPORT AND LVD VORTAC.

3. Reason for Waiver (*Justification for nonstandard treatment*):

INITIAL CLIMB AREA FOR RUNWAY 10 WAS EVALUATED, BUT DUE TO HIGH TERRAIN IN THE ICA AND SURROUNDING THE AIRPORT, AIRCRAFT DEPARTING OFF OF RWY 10 WILL BE EXPECTED TO TURN LEFT AS SOON AS PRACTICABLE (AVOIDING RAPIDLY RISING TERRAIN IN THE ICA) AND FLY VISUALLY TO A DME FIX ESTABLISHED ON A SPECIFIC COURSE. WHEN THE AIRCRAFT IS POSITIONED OVER THE DME FIX AT A SPECIFIED ALTITUDE COMMENCING THE DEPARTURE ROUTE, ALL REQUIRED DEPARTURE OBSTRUCTION CLEARANCE WILL BE PROVIDED.

4. Equivalent Level of Safety Provided:

1. PROCEDURE REQUIRES VISUAL FLIGHT FROM RWY 10 TO A POINT WHERE IFR FLIGHT CAN BE MADE UNTIL ESTABLISHED ON THE IFR ENROUTE STRUCTURE. THE DEPARTURE PROCEDURE OFF RWY 10 WILL CLEARLY STATE THAT VISUAL FLIGHT CONDITIONS MUST BE MAINTAINED FROM TAKEOFF UNTIL ESTABLISHED ON LVD R-069 AT JUMKI/22.00 DME FIX AT/ABOVE 1000 ON A WESTERLY COURSE.

2. AIRCRAFT WILL CLIMB IN VISUAL FLIGHT CONDITIONS TO INTERCEPT LVD R-069 AT JUMKI/22.00 DME FIX. FROM JUMKI AIRCRAFT WILL CONTINUE ON LVD R-069 TO LVD VOR/DME.

3. 1000-3 IS REQUIRED TO DEPART FROM RWY 10 TO ENSURE AIRCRAFT CAN MAINTAIN VISUAL FLIGHT CONDITIONS UNTIL OVER LVD R-069 AT JUMKI/22.00 DME FIX.

4. THE FOLLOWING NOTE WILL BE ADDED: RAPIDLY RISING TERRAIN SOUTH/SOUTHWEST AND EAST/NORTHEAST OF AIRPORT TO ABOVE 2500 FEET MSL WITHIN 3 MILES OF AIRPORT.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

RELOCATION OR ADDITION OF FACILITIES NOT CONTEMPLATED AT THIS TIME.

6. Coordination With User Organizations (*Specify*):

AJV-354 _____

7. SUBMITTED BY

DATE:	Office Identification: AJV-35	Title: MANAGER, TERMINAL PRODUCTS GROUP	Signature: GREG YAMAMOTO
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8. CONTINUATION

Comments:

9. AFS ACTION

Approved

Disapproved

Not Required

Comments:

Date:

Routing Symbol:

Signature:



Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Deborah L. Copeland, Manager, Western Products Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change for Wrangell, Wrangell, AK (PAWG)

This rescinds the previously submitted letter on OCT 02 2012 same subject. It updates the location name from Wrangle to read Wrangell; also, added procedure(s).

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility' column will be revised effective concurrent with the publication of the procedure(s) listed below.

LEVEL ISLAND TWO
 LDA/DME-C, AMDT 8
 LDA/DME-D, AMDT 7
 RNAV (GPS)-E, AMDT 1 (SPECIAL)
 RNAV (GPS) RWY 10, ORIG
 SUMNER TWO (RNAV)

Estimated Chart Date: 06/27/2013

Please publish these changes in the National Flight Data Digest.

ALASKA

<u>Location</u>	<u>Name</u>	<u>Airport /Facility</u>	<u>Identifier</u>	<u>Assigned Magnetic Variation Value</u>	<u>Epoch Year</u>
Wrangell	Wrangell	Airport	PAWG / WRG	Old 24° East New 20° East	2015
Wrangell		LOC	RGL	Old 24° East New 20° East	2015

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 LEverhart
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-354 DCopeland
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-34 JAlfonso
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

Level Island	Level Island	VOR/DME (H)	LVD	Old 28° East New 20° East	2015
Level Island	Summer Straight	NDB/H	SQM	Old 28° East New 20° East	2015

If you have any questions please notify Deborah L. Copeland, deborah.l.copeland@faa.gov (301) 427-5070.

CC AJV-3rf
 sjb:x7537:01/31/2013: (U:\AVN100\PIT\MAGVAR\MAGVAR\MAGVAR Letters 2013\MV Change Request for Wrangell, AK (PAWG) 1-31-13 Requestor: VNaso, Evaluated By: LFortier