U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LDA STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
BUXOM INT/I-VDG 12.39 DME (IF)	TRAYL INT/I-VDG 8.68 DME	103.03 / 3.72 (I-VDG)	2300

MISSED APPROACH

MAP: LDA: 5.77 MILES AFTER TRAYL INT/I-VDG 8.68 DME OR AT QEHBY/I-VDG 2.91 DME FIX

CLIMB TO 900 THEN CLIMBING LEFT TURN TO 4200 DIRECT BTG VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4200, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 900 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 310 AND UBG VOR/DME R-007 TO AASEN/UBG 32.50 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. (DME REQUIRED).

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 163.83 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S AASEN/UBG 32.50 DME, RT, 007.21 INBOUND.
CHART FAS OBST: 267 CRANE 453754N/1224150W
FAC CROSSES RW08 C/L 122 FROM THLD

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT BUXOM
3. FAC 103.03 FAF TRAYL INT/I-VDG 8.68 DME DIST FAF TO MAP 5.77 THLD ____
4. MIN. ALT BUXOM 3000, TRAYL 2300, ZEZJI INT/I-VDG 4.70 DME 860
8. MSA FROM: BTG VORTAC 120-300 3500, 300-120 6200

MAG VAR: 16E EPOCH YEAR:2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A @

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
CIRCLING	860	1 1/4	835	860	1 1/4	835		NA			NA				
ZEZJI FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
CIRCLING	700	1	675	740	1	715		NA			NA				

NOTES:

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORTLAND INTL ALTIMETER SETTING. @ CAT A, B 900-2
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM (OR RVR 5000 AS APPROPRIATE) NOT AUTHORIZED
CHART PLANVIEW NOTE: RADAR REQUIRED.

CITY AND STATE	ELEVATION: 25 TDZE: AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
VANCOUVER, WA	PEARSON FIELD	I-VDG	LDA-A, AMDT 2, 09/20/2012	AMDT 1
				DATE 03/10/2011

FAA FORM 8260-5 / April 2006 (computer generated)

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		09/20/2012

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] ZSE, PDX ATCT, ARPT MGR, ST AERO

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **CHARLIE SCHNEIDER**	FIFO **AJV-354**	DATE: **05/05/2012**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO **AJV-354**	DATE:

CHANGES:

1. BUXOM TO TRAYL SEGMENT, COURSE CHANGED FROM 099.03 TO 103.03, ALTITUDE FROM 2200 TO 2300, DISTANCE FROM 3.40 TO 3.72
2. FAC CHANGED FROM 099.03 TO 103.03
3. DISTANCE FAF TO MAP CHANGED FROM 6.09 TO 5.77
4. ALTERNATE MISSED APPROACH CLEARANCE LIMIT CHANGED FROM A COURSE AND DISTANCE FROM PDX VOR/DME TO THE FIX AASEN, CHARTED ALTERNATE HOLDING
5. CIRCLING CAT A VISIBILITY CHANGED FROM 1 TO 1 1/4
6. AIRPORT MAGVAR CHANGE FROM 20E/1980 TO 16E 2010

REASONS:

1. VDG LOCALIZER MAGVAR CHANGE FROM 20E TO 16E, ALTITUDE TO MAKE COMMON ALTITUDE AT FIX WITH THE ILS OR LOC RWY 10L AT PDX, FIX TRAYL MOVED TO NEW LOCATION PER ATC REQUEST
2. VDG LOCALIZER MAGVAR CHANGE FROM 20E TO 16E
3. TRAYL (FAF) MOVED TO NEW LOCATION PER ATC REQUEST
4. PDX VOR/DME TO BE DECOMMISSIONED, NEW CLEARANCE LIMIT FIX COORDINATED WITH ATC
5. NEW VISIBILITY CALCULATION
6. UPDATED AIRPORT DATA

7/28/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 5/5/12.
1. PER FLIGHT CHECK, ADDED HEADING 310 INTO ALTERNATE MISSED APPROACH INSTRUCTIONS

8/15/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 5/5/12.
1. PER FLIGHT CHECK, CHANGES AND REASONS: CHANGED ITEM #5 UNDER CHANGES FROM 1/4 TO 1 1/4
2. UPDATED HELICOPTER VISIBILITY REDUCTION CHART NOTE

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE	BUXOM INT/I-VDG	TRAYL INT/I-VDG	1. AAO	453957.11N/1225431.59W	1539 (2C)	500	AT261	2300
	12.39 DME	8.68 DME	2. TERRAIN	453858.20N/1225335.73W	1219 (1200)		AS1000	2200
FINAL: LDA	TRAYL INT/I-VDG	ZEZJI INT/I-VDG	3. T-L TWR (53-000456)	453828.00N/1224244.00W	542 (4D)	250	AC50	860
	8.68 DME	4.70 DME						
FINAL: LDA STEPDOWN	ZEZJI INT/I-VDG	5.77 MILES AFTER	4. CRANE (53-000872)	453754.00N/1224150.00W	267 (5D)	250	AC50	580
	4.70 DME	TRAYL INT/VDG						
		8.68 DME OR AT						
		QEHBY/I-VDG						
		2.91 DME FIX						
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	5.77 MILES AFTER	BTG VORTAC				ASC		4200
	TRAYL INT/VDG		5. AAO	454403.00N/1223836.00W	712 (4E)	1000		1800
ELEV:	450		6. TERRAIN	454403.00N/1223836.00W	512 (500)		AS1500	2000

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350		835 / 675	7. TREE	453746.52N/1223759.99W	384 (2C)	300	SI	860 / 700
CATEGORY B	1.5 NM	450		835 / 715	8. TREE (KPDXT0059)	453723.82N/1223710.76W	435 (1B)	300	SI	860 / 740
CATEGORY C	1.7 NM	450								
CATEGORY D	2.3 NM	550								
CATEGORY E	4.5 NM	550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: BTG VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
120-300	AAO	255/ 21.6	2465 (6C)	3500					
300-120	AAO	005/ 28.0	5165 (6C)	6200					

CITY AND STATE	ELEVATION: 25 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
VANCOUVER, WA	PEARSON FIELD	I-VDG	LDA-A, AMDT 2, 09/20/2012	ANM

QUALITY CHECKED A

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZSE ARTCC PDX TRACON		N W S	OTHER: ASOS	SOURCE: KVUO / KPDX
		F A A		DISTANCE: 0 / 3.15
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 0 / BACKUP
X V H F X U H F H F	LOCATION: KVUO			ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID: I-VDG	
	MONITOR POINT: POCC	
	HRS OPTN: CAT 1	24
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 08 (PCL), 26 (PCL)
	X	REIL 08, 26
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4R 08 PAPI-2R 26
6. RUNWAY MARKINGS	BASIC	BSC-G 08, 26
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY: 946	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD FT. FROM THRESHOLD
		ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: 1

ORDER 8260.3B, VOLUME 1TABLE 3 INTERMEDIATE SEGMENT LENGTH

PART D - PREPARED BY: CHARLIE SCHNEIDER	DATE: 05/05/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

VDP NOT ESTABLISHED - CIRCLING ONLY PROCEDURE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KVUO 25, KPDX 30
RA = 0 (REMOTE SOURCE IS WITHIN 5 NM)

9. FAC CROSSES RW08 C/L 122 FT WEST OF THLD

WAIVER: FAAO 8260.3B VOL 1 TABLE 3 INTERMEDIATE SEGMENT LENGTH

SEE ATTACHED AIRSPACE LETTER.

VEGETATION HEIGHTS PROVIDED BY I-TEN PHOTOGRAMMETRY DIVISION THROUGH PORT OF PORTLAND AND FPT:
WASHINGTON SIDE OF THE COLUMBIA RIVER: 85 FT
OREGON SIDE OF THE COLUMBIA RIVER: 75 FT
GOVERNMENT ISLAND: 130 FT

AIRPORT HAS NO SURVEY AND IS APPROVED FOR CIRCLING ONLY. 20:1 PENETRATIONS ASSUMED TO EXIST LACKING ANY SURVEY DATA, AIRPORT CURRENTLY HAS NO RESTRICTIONS ON NIGHT OPERATIONS, THERE ARE MULTIPLE SURVEY OBSTACLES LOCATED IN THE VISI AND VAAR AREAS THAT HAVE BEEN EVALUATED ARE NOT PENETRATORS, ALSO THE ENTIRE AIRPORT FALLS IN THE SURVEY AREA FOR ILS OR LOC RWY 10L AT PORTLAND (PDX), SO NIGHT OPERATIONS WILL NOT BE RESTRICTED

TERRAIN ISSUES PREVENT EXTENDING BUXOM TO TRAYL SEGMENT, MINIMUM LEG LENGTH WAIVER REQUIRED

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
9. AAO 454945.00N/1222809.00W 1024 (4E) 1000 2100
10. TERRAIN 454945.00N/1222809.00W 824 (800) AS1500 2300

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: AASEN **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 454947.63N/1223642.85W **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 NM	DIST FROM FAC FEET	MRA	MAA
1	BATTLE GROUND	BTG	VORTAC	H	329.16	350.16	5.00	5.00		5000	17500
2	NEWBERG	UBG	VOR/DME	H	007.21	028.21	32.50	32.50		5000	14000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	BTG	VORTAC	329.16	149.16	R		10	4300	17500	12	20
2	S	UBG	VOR/DME	007.21	007.21	R	1		5000	14000	7	15

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	455941.10N/1223538.70W	3155	6C
1	310	AAO	455941.10N/1223538.70W	3155	6C
2	200	AAO	455500.00N/1223424.00W	1559	4E
2	265	AAO	454912.00N/1222439.00W	2340	4E
2	310	AAO	455936.00N/1223548.00W	3252	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	HI-ILS OR LOC/DME RWY 28R	KPDX	PORTLAND	OR (US)
2	LDA-A (ALT MISS)	KVUO	VANCOUVER	WA (US)
2	ILS OR LOC RWY 10L (ALT MISS)	KPDX	PORTLAND	OR (US)

REMARKS:
BATTLE GROUND (FAC 1) USED TO ESTABLISH FIX COORDINATES
FIX ESTABLISHED ON AIRWAY, DO NOT CHART ENROUTE
HOLDING TEMPLATE P-12 USED FOR OBSTACLE EVALUATION TO MAINTAIN CURRENT 10 DME LEG LENGTH.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC/DME RWY 28R	1	1	KPDX	PORTLAND	OR (US)
IAP	ILS OR LOC RWY 10L (ALT MISS)	2	2	KPDX	PORTLAND	OR (US)
IAP	TACAN RWY 28L	1	1	KPDX	PORTLAND	OR (US)
IAP	LDA-A (ALT MISS)	2	2	KVUO	VANCOUVER	WA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FAC 2, UBG VOR/DME.
2. CHANGED FAC 1 MRA FROM 4300 TO 5000.
3. ADDED PAT 2.

DEVELOPED BY: **DATE:** 04/26/2012 **OFFICE:** AJV-354 **NAME:** CATHERINE CHILDRESS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BATTLE GROUND VORTAC **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 454452.12N/1223529.53W **TYPE:**

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	DIST FROM FAC FEET	MRA	MAA
1	BATTLE GROUND	BTG	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V468 5000 NORTHEAST BOUND
MCA V112-182-520 4700 EASTBOUND
MCA V448 9400 NORTHEAST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	BTG	VORTAC	329.16	149.16	R	1		4000	14000	4	10
2	N	BTG	VORTAC	343.83	163.83	R	1		4200	14000	5	18
3	S	BTG	VORTAC	163.00	343.00	R	1-1 1/2		4000	45000	4	29
4	N		WP	345.00	165.00	R		5	4200	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	455430.60N/1224203.74W	1162	2A
1	310	AAO	455935.60N/1223547.85W	3155	2A
2	200	AAO	455500.00N/1223424.00W	1559	4E
2	310	AAO	455935.60N/1223547.85W	3155	2A
3	200	AAO	454703.00N/1223106.00W	837	4E
4	200	AAO	455515.00N/1223427.00W	1615	4E
4	310	AAO	455935.60N/1223547.85W	3155	2A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME A	KSPB	SCAPPOOSE	OR (US)
1	TAKEOFF MINIMUMS	KSPB	SCAPPOOSE	OR (US)
1	VOR-A	KPDX	PORTLAND	OR (US)
1	TAKEOFF MINIMUMS	KVUO	VANCOUVER	WA (US)
1	TAKEOFF MINIMUMS	KPDX	PORTLAND	OR (US)
2	VOR/DME RWY 21	KPDX	PORTLAND	OR (US)
2	LDA-A	KVUO	VANCOUVER	WA (US)
2	ILS OR LOC RWY 10L	KPDX	PORTLAND	OR (US)
2	ILS OR LOC RWY 28R	KPDX	PORTLAND	OR (US)
4	RNAV (RNP) Z RWY 10L	KPDX	PORTLAND	OR (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3 REQUESTED BY PDX APP CON AND ZSE
CHART PAT 3 ENROUTE HIGH AND LOW

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EUGENE			KEUG	EUGENE	OR (US)
DP	CANBY			KHIO	PORTLAND	OR (US)
DP	SCAPO			KHIO	PORTLAND	OR (US)
DP	HRMNS (RNAV)			KPDX	PORTLAND	OR (US)
DP	LAVAA (RNAV)			KPDX	PORTLAND	OR (US)
DP	MINNE (RNAV)			KPDX	PORTLAND	OR (US)
DP	PORTLAND			KPDX	PORTLAND	OR (US)
DP	RIVER			KPDX	PORTLAND	OR (US)
DP	TAKEOFF MINIMUMS		1	KPDX	PORTLAND	OR (US)
DP	WHAMY (RNAV)			KPDX	PORTLAND	OR (US)
DP	BLUE LAKE			KTTD	PORTLAND	OR (US)
DP	TAKEOFF MINIMUMS			KTTD	PORTLAND	OR (US)
DP	REDMOND			KRDM	REDMOND	OR (US)
DP	SALEM			KSLE	SALEM	OR (US)
DP	TAKEOFF MINIMUMS		1	KSPB	SCAPPOOSE	OR (US)
DP	TAKEOFF MINIMUMS			KKLS	KELSO	WA (US)
DP	YELM			KOLM	OLYMPIA	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	SEATTLE			KSEA	SEATTLE	WA (US)
DP	TAKEOFF MINIMUMS		1	KVUO	VANCOUVER	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)

EN ROUTE	J1				(US)
EN ROUTE	J136				(US)
EN ROUTE	J15				(US)
EN ROUTE	J159				(US)
EN ROUTE	J16				(US)
EN ROUTE	J189				(US)
EN ROUTE	J67				(US)
EN ROUTE	J82				(US)
EN ROUTE	V112				(US)
EN ROUTE	V182				(US)
EN ROUTE	V23				(US)
EN ROUTE	V287				(US)
EN ROUTE	V448	3			(US)
EN ROUTE	V468				(US)
EN ROUTE	V495				(US)
EN ROUTE	V500				(US)
EN ROUTE	V520				(US)
IAP	LOC RWY 17		KUAO	AURORA	OR (US)
IAP	ILS OR LOC RWY 22		KMMV	MC MINNVILLE	OR (US)
IAP	RNAV (GPS) RWY 22		KMMV	MC MINNVILLE	OR (US)
IAP	ILS OR LOC RWY 13		KHIO	PORTLAND	OR (US)
IAP	NDB-B		KHIO	PORTLAND	OR (US)
IAP	RNAV (GPS) RWY 13		KHIO	PORTLAND	OR (US)
IAP	HI-ILS OR LOC/DME RWY 10R		KPDX	PORTLAND	OR (US)
IAP	HI-ILS OR LOC/DME RWY 28R		KPDX	PORTLAND	OR (US)
IAP	HI-TACAN RWY 10R		KPDX	PORTLAND	OR (US)
IAP	ILS OR LOC RWY 10L	2	KPDX	PORTLAND	OR (US)
IAP	ILS OR LOC RWY 28R	2	KPDX	PORTLAND	OR (US)
IAP	LOC/DME RWY 21	2	KPDX	PORTLAND	OR (US)
IAP	RNAV (GPS) RWY 10L		KPDX	PORTLAND	OR (US)
IAP	RNAV (GPS) RWY 10R		KPDX	PORTLAND	OR (US)
IAP	RNAV (RNP) Z RWY 10L	4	KPDX	PORTLAND	OR (US)
IAP	TACAN RWY 28L		KPDX	PORTLAND	OR (US)
IAP	VOR RWY 28R	2	KPDX	PORTLAND	OR (US)
IAP	VOR-A	1	KPDX	PORTLAND	OR (US)
IAP	VOR/DME RWY 21	2	KPDX	PORTLAND	OR (US)
IAP	NDB OR GPS-A		KTTD	PORTLAND	OR (US)
IAP	LOC/DME RWY 31		KSLE	SALEM	OR (US)
IAP	LOC/DME RWY 15	1	KSPB	SCAPPOOSE	OR (US)
IAP	RNAV (GPS) RWY 15		KSPB	SCAPPOOSE	OR (US)
IAP	VOR/DME A	1	KSPB	SCAPPOOSE	OR (US)
IAP	NDB-A		KKLS	KELSO	WA (US)
IAP	LDA-A	2	KVUO	VANCOUVER	WA (US)
STAR	HELNS		KUAO	AURORA	OR (US)
STAR	HELNS		KHIO	PORTLAND	OR (US)
STAR	BONVL		KPDX	PORTLAND	OR (US)
STAR	HELNS		KPDX	PORTLAND	OR (US)
STAR	MOXEE		KPDX	PORTLAND	OR (US)
STAR	HELNS		KTTD	PORTLAND	OR (US)
STAR	OLYMPIA	3	KSEA	SEATTLE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX USE
REMOVED PAT 4, PDX VOR/DME TO BE DECOMMISONED
REMOVED FAC 2,3,4, ATC REQUEST
ADDED NEW HOLDING PATTERN 4
REMOVED PAT 5, PROCEDURES NOT DEVELOPED

DEVELOPED BY: **DATE:** 04/17/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BUXOM **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 454151.27N/1225138.38W **TYPE:** WP, RADAR, 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	DIST FROM FAC FEET	MRA	MAA
1	PORTLAND	I-VDG	LOC/DME		283.03	299.03	12.39	14.32		3000	4500
2	BATTLE GROUND	BTG	VORTAC	H	234.17	255.17		11.71		3000	4500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

REMARKS:
PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
DME SOURCE FOR I-VDG: 453547.95N/1223613.55W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 10L	1, 2		KPDX	PORTLAND	OR (US)
IAP	RNAV (GPS) RWY 28R			KPDX	PORTLAND	OR (US)
IAP	RNAV (GPS) Y RWY 10L			KPDX	PORTLAND	OR (US)
IAP	RNAV (RNP) Z RWY 10L			KPDX	PORTLAND	OR (US)
IAP	LDA-A	1, 2		KVUO	VANCOUVER	WA (US)

REQUIRED CHARTING: IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX USE
FAC 1 MAG BRG CHANGED FROM 279.03 TO 283.03, FAC 1 MAGVAR CHANGE FROM 20E TO 16E
REMOVED PAT 1, ATC REQUEST HIL BE REMOVED FROM ALL PROCEDURES AS THEY WILL NEVER BE USED, AND ALL MISSED APPROACH HOLDING NO LONGER USES THIS FIX

DEVELOPED BY: **DATE:** 04/12/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE, ZSE
ATC FACILITY: PDX
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: QEHBY **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 453716.11N/1223947.86W **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 NM	FEET	MRA	MAA
1	PORTLAND	I-VDG	LOC/DME		283.03	299.03	2.91	4.83		600	4500

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

REMARKS:
PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-VDG DME COORDINATES: 453547.95N/1223613.55W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LDA-A	1		KVUO	VANCOUVER	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC 1 MAG BRG CHANGED FROM 279.03 TO 283.02, FAC 1 MAGVAR CHANGE FROM 20E TO 16E

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TRAYL **STATE:** OR **COUNTRY:** US

LATITUDE/LONGITUDE: 454003.67N/1224659.88W **TYPE:** WP, RADAR, 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	DIST FROM FAC FEET	MRA	MAA
1	PORTLAND	I-VDG	LOC/DME		283.03	299.03	8.68	10.60	64427	2300	4500
2	BATTLE GROUND	BTG	VORTAC	H	218.26	239.26		9.39		2300	4500

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

REMARKS:
PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
DME SOURCE FOR I-VDG: 453547.95N/1223613.55W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 10L	1, 2		KPDX	PORTLAND	OR (US)
IAP	RNAV (GPS) Y RWY 10L			KPDX	PORTLAND	OR (US)
IAP	RNAV (RNP) Z RWY 10L			KPDX	PORTLAND	OR (US)
IAP	LDA-A	1, 2		KVUO	VANCOUVER	WA (US)

REQUIRED CHARTING: IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED 1919.03 FT, COORDINATES REVISED
UPDATED FIX USE
FAC 2 BRG CHANGED FROM 219.89/240.89 TO 218.26/239.26
FAC 1 DME CHANGED FROM 8.99 TO 8.68, DISTANCE FROM FAC FROM 10.92 TO 10.60 AND 66346 FT TO 64427 FT.
FAC 1 MAG BRG CHANGED FROM 279.03 TO 283.03, FAC 1 MAGVAR CHANGE FROM 20E TO 16E
FAC 2 BRG CHANGED FROM 219.89/240.89 TO 218.26/239.26, DIST FROM FAC FROM 9.55 TO 9.39
FAC 1 AND 2 MRA RAISED FROM 2200 TO 2300

DEVELOPED BY: **DATE:** 04/12/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEZJI **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 453808.18N/1224201.93W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	PORTLAND	I-VDG	LOC/DME		283.03	299.03	4.70	6.62		760	4500
2	BATTLE GROUND	BTG	VORTAC	H	193.29	214.29		8.15		760	4500

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

REMARKS:
PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-VDG DME COORDINATES: 453547.95N/1223613.55W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LDA-A	1, 2		KVUO	VANCOUVER	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC 1 MAG BRG CHANGED FROM 279.03 TO 283.02, FAC 1 MAGVAR CHANGE FROM 20E TO 16E

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-354 **NAME:** CHARLES SCHNEIDER

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE
ATC FACILITY: PDX
OTHER:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:
VANCOUVER, WA (KVUO)
PEARSON FIELD
LDA-A

2. Waiver Required and Applicable Standard:
FAA ORDER 8260.3B, TABLE 3, "MINIMUM INTERMEDIATE SEGMENT LENGTH"
REQUEST USE OF 3.72 NM INTERMEDIATE SEGMENT LENGTH.

3. Reason for Waiver *(Justification for nonstandard treatment)*:
THE LDA-A TO KVUO USES THE RWY 10L LOCALIZER AT KPDX. FOR SIMILARITY OF PROCEDURES USING THE SAME NAVIGATIONAL SIGNAL, THE LDA-A TO PEARSON FIELD USE THE SAME INTERMEDIATE FIX (IF) AS THE ILS OR LOC RWY 10L TO PORTLAND INTL, OR (KPDX). THE FAF FOR KVUO IS THE INTERMEDIATE STEPDOWN FIX FOR KPDX, WHICH RESULTS IN AN INTERMEDIATE SEGMENT LENGTH OF 3.72 NM.

4. Equivalent Level of Safety Provided:
1. THE PROCEDURE IS ANNOTATED "RADAR REQUIRED" FOR PROCEDURE ENTRY IN THE PLANVIEW. AIRCRAFT WILL RECEIVE VECTORS TO FINAL. THERE IS NO OTHER MEANS FOR PROCEDURE ENTRY.
2. THE 3.72 NM INTERMEDIATE SEGMENT LENGTH IS ADEQUATE TO ALLOW RADAR VECTORING TO 2 NM OUTSIDE THE APPROACH GATE (TOTAL OF 3 NM FROM THE FAF) AS REQUIRED IN FAA JO 7110.65, PARA 5-9-1.
3. THE PROCEDURE IS LIMITED TO CATEGORY A AND B AIRCRAFT ONLY.

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

6. Coordination With User Organizations *(Specify)*:
AJV-354_____

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	**MANAGER, TERMINAL PRODUCTS GROUP**	**GREGORY YAMAMOTO**

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **VANCOUVER** STATE: **WA**

AIRPORT NAME: **PEARSON FIELD** ID: **KVUO**

PROCEDURE: **LDA-A** AMDT: **2**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **I-VDG** to 1000' point **7.70**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.84**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **119.03**
4. High Terrain in **FINAL** segment containing 1000' point **109**
5. Distance from **I-VDG** to 1500' point **8.67**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.09**
7. True Course of **FINAL** segment containing 1500' point **119.03**
8. High Terrain in **FINAL** segment containing 1500' point **109**
9. Threshold Coordinates (if straight-in) ... _____ / _____
10. ARP Coordinates ..... **453713.63N** / **1223923.36W**
11. Runway Approach End and distance furthest from ARP.....RWY **26**
    Distance **0.27** NM
12. FAF Coordinates ..... **454003.67N** / **1224659.88W**
    (Click to Select)

REMARKS: Approach/Drawing attached. I-VGD COORDINATES: 453455.53N/1223346.85W