

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		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.	
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			
TERMINAL ROUTES		MISSED APPROACH	
FROM	TO	COURSE AND DISTANCE	ALTITUDE
HQM VORTAC	NEYDI/I-HQM 6.37 DME	061.18 / 14.74	2900
ULESS/HQM VORTAC 30.00 DME (IAF)	LAMMB/I-HQM 12.64 DME (NOPT)	183.00 / 7.29 (HDG) & 240.84 / 4.50 (I-HQM)	2300
SOUPY/HQM VORTAC 30.00 DME (IAF)	LAMMB/I-HQM 12.64 DME (NOPT)	286.00 / 5.87 (HDG) & 240.84 / 4.56 (I-HQM)	2300
ZEDAT/HQM VORTAC 21.00 DME CCW (IAF)	ONPAE/HQM VORTAC 21.00 DME	21.00 DME ARC	2800
PUGIC/HQM VORTAC 21.00 DME CCW (IAF)	ONPAE/HQM VORTAC 21.00 DME	21.00 DME ARC	2800
(SEE FORM 8260-10)			
		ILS: DA LOC: I-HQM 0.91 DME FIX CLIMB TO 2500 DIRECT HQM VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 190 AND AST VOR/DME R-317 TO ZEDAT/AST 28.73 DME AND HOLD. (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, RT, 060.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW ZEDAT/AST 28.73 DME, RT, 136.63 INBOUND. CHART FAS OBST: 328 POLE 465851N/1235238W CHART: 493 TREE 465854N/1235201W 839 AAO 465927N/1234712W CHART VDP AT 2.53 DME*; DISTANCE VDP TO THLD 1.62 MILES. *LOC ONLY. CHART (COXOD) AT INTERSECTION OF DR LEG AND INTERMEDIATE COURSE. CHART HQM R-082 AT ONPAE. CHART HQM R-148 AT PUGIC. CHART HQM R-163 AT ZEDAT.	
1. PT <u>L</u> SIDE OF COURSE <u>060.84</u> OUTBOUND <u>2300</u> FT WITHIN <u>10</u> MILES OF <u>NEYDI</u> (IAF) 2. _____ 3. FAC: <u>240.84</u> FAF: NEYDI/I-HQM 6.37 DME DIST FAF TO MAP: _____ THLD: <u>5.46</u> 4. MIN. ALT: NEYDI 2100, WIMET/I-HQM 3.10 DME 900* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: <u>890</u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: NEYDI 2100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.50</u> TCH: <u>54.7</u> 8. MSA FROM: HQM VORTAC 050-170 3000, 170-300 1300, 300-050 3600		MAG VAR: 19E EPOCH YEAR: 1995	
MINIMUMS			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT		ALTERNATE: N A ILS: STANDARD LOC: STANDARD	
CATEGORY =====>	A	B	C
DH/MDA	VIS	HAT/HAA	DH/MDA
S-ILS 24	215	1/2	200
S-LOC 24	580	1/2	565
CIRCLING	580	1	562
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS CAT C VISIBILITY TO 7/8 MILE AND S-LOC CAT C VISIBILITY TO 1 5/8 MILE. CHART NOTE: CIRCLING NA NORTHWEST OF RWY 6-24. (SEE FORM 8260-10)			
CITY AND STATE HOQUIAM, WA		ELEVATION: 18 THRE: 15 AIRPORT NAME: BOWERMAN	
FACILITY IDENTIFIER: I-HQM		PROCEDURE NO./AMD T NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 24, AMD T 4 <div style="text-align: center; color: red; font-weight: bold;">09 FEB 2012</div>	
SUP: AMDT: DATED 10/22/2009		<div style="text-align: right;"> </div>	

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ONPAE/HQM VORTAC 21.00 DME CCW	LAMMB/I-HQM 12.64 DME (NOPT)	21.00 DME ARC (HQM LR-067)	2300
LAMMB/I-HQM 12.64 DME (IF)	NEYDI/I-HQM 6.37 DME	240.84 / 6.27 (I-HQM)	2100

NOTES, (CONT.):

CHART PLANVIEW NOTE: DME REQUIRED.

CHART PROFILE NOTE: USE I-HQM DME WHEN ON THE LOCALIZER COURSE.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.

QUALITY
CHECKED

CITY AND STATE
HOQUIAM, WA

ELEVATION: 18 THRE: 15
AIRPORT NAME:
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FACILITY
IDENTIFIER:
I-HQM

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC/DME RWY 24, AMDT 4
09 FEB 2012

SUP:
AMDT: 3
DATED: 10/22/2009

FLIGHT STANDARDS SERVICES - FAR PART 97.29

ARINC PACKET - 424-18 - ILS

[illegible]

DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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SUSAP KHQMK1FI24 I 030RW24 K1PG0GY M CF IHQMK1 0608000924100055PI 00070 -350 0 DS
 SUSAP KHQMK1FI24 I 040HQM K1D 0VYM DF + 02500 0 DS
 SUSAP KHQMK1FI24 I 050HQM K1D 0VE R HM 0600T010 + 02500 0 DS

1 2 3 4 5 6 7 8 9 0 1 2 3
 RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

 SUSAP KHQMK1GRW24 0050002408 N46582066W123553615+0000 -0019100015000055150IIHQM1

1 2 3 4 5 6 7 8 9 0 1 2 3
 ILS 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

 SUSAP KHQMK1IIHQM1 010870RW24 N46581108W1235654222408N46582246W1235549650500 08900600350E01905500015

1 2 3 4 5 6 7 8 9 0 1 2 3
 MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

 SUSAP KHQMK1SHQM K1D 0 120230036252303500302535012001325 M

CITY AND STATE
 HOQUIAM, WA

ELEVATION: 18
 AIRPORT NAME:

THRE: 15

BOWERMAN

FACILITY
 IDENTIFIER:

I-HQM

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC/DME RWY 24, AMDT 4

09 FEB 2012

SUP:

AMDT: 3

DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HQM	HQM	010		IF		FB					
	HQM	NEYDI	020		TF		FB				AA 02900	
	HQM	NEYDI	030	IAF	PI	R	FB		015.8()	010.0	AA 02300	
	PUGIC	PUGIC	010	IAF	IF		FB					
	PUGIC	ONPAE	020		AF	L	FB		147.6()		AA 02800	
	PUGIC	LAMMB	030		AF	L	FB		082.0()		AA 02300	
	SOUPY	SOUPY	010	IAF	IF		FB					
	SOUPY	COXOD	020		TF		FB				AA 02300	
	SOUPY	LAMMB	030		CF		FB		240.8()	004.6	AA 02300	
	ULESS	ULESS	010	IAF	IF		FB					
	ULESS	COXOD	020		TF		FB				AA 02300	
	ULESS	LAMMB	030		CF		FB		240.8()	004.5	AA 02300	
	ZEDAT	ZEDAT	010	IAF	IF		FB					
	ZEDAT	PUGIC	020		AF	L	FB		163.0()		AA 02800	
	ZEDAT	ONPAE	030		AF	L	FB		147.6()		AA 02800	
	ZEDAT	LAMMB	040		AF	L	FB		082.0()		AA 02300	
		LAMMB	010	FACF	IF		FB				AA 02300	GI 02100
		NEYDI	020	FAF	CF		FB		241.0()	006.3	GI 02100	GS 02100
		RW24	030	MAP	CF		FO		241.0()	005.5	AT 00070	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HQM	040		DF		FO				AA 02500	
	HQM	050		HM	R	FO		060.0()	001.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HQM	N465649.35	W1240857.37	N4656.823	W12408.956
	IHQM (DME)	N465813.38	W1235655.13	N4658.223	W12356.919
	COXOD	N470109.95	W1233215.41	N4701.166	W12332.257
	LAMMB	N470023.49	W1233844.06	N4700.392	W12338.734
	NEYDI	N465918.18	W1234744.89	N4659.303	W12347.748
	ONPAE	N465245.09	W1233854.34	N4652.752	W12338.906
	PUGIC	N463623.90	W1240154.16	N4636.398	W12401.903
	SOUPY	N465747.07	W1232511.13	N4657.785	W12325.186
	ULESS	N470754.58	W1232812.15	N4707.910	W12328.203
	ZEDAT	N463550.64	W1241001.14	N4635.844	W12410.019
	RW24	N465820.66	W1235536.15	N4658.344	W12355.603
	IHQM (LOC)	N465811.08	W1235654.22	N4658.185	W12356.904

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH

CITY AND STATE
HOQUIAM, WAELEVATION: 18
AIRPORT NAME:

THRE: 15

BOWERMAN

FACILITY
IDENTIFIER:

I-HQM

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 24, AMDT 4

09 FEB 2012

SUP:

AMDT:

3

DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

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RW24 00015 55

CITY AND STATE
HOQUIAM, WA

ELEVATION: 18 THRE: 15
AIRPORT NAME:
BOWERMAN

FACILITY
IDENTIFIER:
I-HQM

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 24, AMDT 4

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DATED: 10/22/2009

FLIGHT STANDARDS SERVICES - FAR PART 97.25

ARINC PACKET - 424-18 - LOC

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHQM1FL24	AHQM	010HQM	K1D 0V	IF						18000		0 DS	
SUSAP KHQM1FL24	AHQM	020NEYDIK1EA0E	TF						+ 02900			0 DS	
SUSAP KHQM1FL24	AHQM	030NEYDIK1EA0EE AR	PI HQM K1		0612014701580100D			+ 02300				0 DS	
SUSAP KHQM1FL24	APUGIC	010PUGICK1EA0E A	IF HQM K1		14760210	D				19000		0 DS	
SUSAP KHQM1FL24	APUGIC	020ONPAEK1EA0E L	AF HQM K1		082002101476	D		+ 02800				0 DS	
SUSAP KHQM1FL24	APUGIC	030LAMMBK1EA0EE BL	AF HQM K1		061002100820	D		+ 02300				0 DS	
SUSAP KHQM1FL24	ASOUPY	010SOUPYK1EA0E A	IF							18000		0 DS	
SUSAP KHQM1FL24	ASOUPY	020COXODK1EA0E	TF					+ 02300				0 DS	
SUSAP KHQM1FL24	ASOUPY	030LAMMBK1EA0EE B	CF IHQM K1		0608012624080046PI			+ 02300				0 DS	
SUSAP KHQM1FL24	AULESS	010ULESSK1EA0E A	IF							18000		0 DS	
SUSAP KHQM1FL24	AULESS	020COXODK1EA0E	TF					+ 02300				0 DS	
SUSAP KHQM1FL24	AULESS	030LAMMBK1EA0EE B	CF IHQM K1		0608012624080045PI			+ 02300				0 DS	
SUSAP KHQM1FL24	AZEDAT	010ZEDATK1EA0E A	IF HQM K1		16300210	D				18000		0 DS	
SUSAP KHQM1FL24	AZEDAT	020PUGICK1EA0E L	AF HQM K1		147602101630	D		+ 02800				0 DS	
SUSAP KHQM1FL24	AZEDAT	030ONPAEK1EA0E L	AF HQM K1		082002101476	D		+ 02800				0 DS	
SUSAP KHQM1FL24	AZEDAT	040LAMMBK1EA0EE BL	AF HQM K1		061002100820	D		+ 02300				0 DS	
SUSAP KHQM1FL24	L	010LAMMBK1EA0E I	IF IHQM K1		06080126	PI		+ 02300		18000		0 DS	

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SUSAP	KHQMK1FL24	L	020NEYDIK1EA0E F	CF IHQMK1	0608006424100063PI	+	02100	HQM	KID	0	DS
SUSAP	KHQMK1FL24	L	021WIMETK1EA0E S	CF IHQMK1	0608003124100033PI	+	00900	-358		0	DS
SUSAP	KHQMK1FL24	L	030RW24 K1PGGY M	CF IHQMK1	0608000924100022PI		00070	-358		0	DS
SUSAP	KHQMK1FL24	L	040HQM K1D 0VYM	DF			02500			0	DS
SUSAP	KHQMK1FL24	L	050HQM K1D 0VE R	HM	0600T010	+	02500			0	DS

[illegible]

SUSAP KHOMK1GRW24 0050002408 N46582066W123553615+0000 -0019100015000055150IIHOM1

[illegible]

SUSAP KHOMK1IHHOM1 010870RW24 N46581108W1235654222408N46582246W1235549650500 08900600350E01905500015

[illegible]

SUSAP KHOMK1SHOM	K1D	0	120230036252303500302535012001325	M
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DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
HQM		HQM	010		IF		FB					
HQM		NEYDI	020		TF		FB				AA 02900	
HQM		NEYDI	030	IAF	PI	R	FB		015.8()	010.0	AA 02300	
PUGIC		PUGIC	010	IAF	IF		FB					
PUGIC		ONPAE	020		AF	L	FB		147.6()		AA 02800	
PUGIC		LAMMB	030		AF	L	FB		082.0()		AA 02300	
SOUPY		SOUPY	010	IAF	IF		FB					
SOUPY		COXOD	020		TF		FB				AA 02300	
SOUPY		LAMMB	030		CF		FB		240.8()	004.6	AA 02300	
ULESS		ULESS	010	IAF	IF		FB					
ULESS		COXOD	020		TF		FB				AA 02300	
ULESS		LAMMB	030		CF		FB		240.8()	004.5	AA 02300	
ZEDAT		ZEDAT	010	IAF	IF		FB					
ZEDAT		PUGIC	020		AF	L	FB		163.0()		AA 02800	
ZEDAT		ONPAE	030		AF	L	FB		147.6()		AA 02800	
ZEDAT		LAMMB	040		AF	L	FB		082.0()		AA 02300	
		LAMMB	010	FACF	IF		FB				AA 02300	
		NEYDI	020	FAF	CF		FB		241.0()	006.3	AA 02100	
		WIMET	021	SDF	CF		FB		241.0()	003.3	AA 00900	
		RW24	030	MAP	CF		FO		241.0()	002.2	AT 00070	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HQM	040		DF		FO				AA 02500	
	HQM	050		HM	R	FO		060.0()	001.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HQM	N465649.35	W1240857.37	N4656.823	W12408.956
	IHQM (DME)	N465813.38	W1235655.13	N4658.223	W12356.919
	COXOD	N470109.95	W1233215.41	N4701.166	W12332.257
	LAMMB	N470023.49	W1233844.06	N4700.392	W12338.734
	NEYDI	N465918.18	W1234744.89	N4659.303	W12347.748
	ONPAE	N465245.09	W1233854.34	N4652.752	W12338.906
	PUGIC	N463623.90	W1240154.16	N4636.398	W12401.903
	SOUPY	N465747.07	W1232511.13	N4657.785	W12325.186
	ULESS	N470754.58	W1232812.15	N4707.910	W12328.203
	WIMET	N465843.74	W1235227.15	N4658.729	W12352.453
	ZEDAT	N463550.64	W1241001.14	N4635.844	W12410.019
	RW24	N465820.66	W1235536.15	N4658.344	W12355.603
	IHQM (LOC)	N465811.08	W1235654.22	N4658.185	W12356.904

CITY AND STATE
HOQUIAM, WAELEVATION: 18
AIRPORT NAME:

THRE: 15

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PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW24	00015	55

CITY AND STATE
HOQUIAM, WA

ELEVATION: 18 THRE: 15
AIRPORT NAME:
BOWERMAN

FACILITY
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PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 24, AMDT 4

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AMDT: 3

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