EIWF AD 2.1AERODROME LOCATION INDICATOR AND NAME

EIWF – WATERFORD

EIWF AD 2.2AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	**ARP coordinates and site at Aerodrome**	521114N 0070513W Mid-point RWY 03/21
2	**Direction and distance from the CITY**	4NM SE of Waterford
3	**Elevation/Reference temperature**	119 ft /19.6°C (Max Temp) 1.5°C (MNM Temp)
4	**Geoid undulation at AD ELEV PSN**	184 ft
5	**MAG VAR/Annual change**	4° W (2014) / 11' decreasing
6	**AD Administration, address, telephone, telefax, telex, AFS**	Post: Waterford Airport Killowen, Co. Waterford Phone:+ 353 51 84 66 00 Fax: + 353 51 87 78 09 [ADMIN] Fax: + 353 51 87 17 01 [ATC] Fax: + 353 51 87 56 23 [Operations] Email: atc@waterfordairport.net Email: operations@waterfordairport.net SITA: WATOPXH AFS: EIWFZTZX
7	**Types of traffic permitted (IFR/VFR)**	IFR/VFR
8	**Remarks**	Nil

EIWF AD 2.3OPERATIONAL HOURS

1	**AD Administration**	Summer: MON-FRI 0615-2000 SAT-SUN 0630-2000 Winter: MON-FRI 0715-2100 SAT-SUN 0730-2100
2	**Customs and immigration**	24 HR PN required to AD ADMIN.
3	**Health and sanitation**	As per AD ADMIN
4	**AIS Briefing Office**	See Remarks
5	**ATS Reporting Office (ARO)**	As per AD ADMIN
6	**MET Briefing Office**	See Remarks
7	**ATS**	As per AD ADMIN
8	**Fuelling**	As per AD ADMIN
9	**Handling**	As per AD ADMIN
10	**Security**	As per AD ADMIN
11	**De-icing**	As per AD ADMIN

12	**Remarks**	AD ADMIN AVBL outside published HR, 24 HR PN to AD ADMIN ATS AVBL outside published HR, 24 HR PN to AD ADMIN PIB AVBL from AIS, Shannon see GEN 3.1.5 MET briefing AVBL from Central Aviation Office, Shannon Airport see GEN 3.5.4

EIWF AD 2.4HANDLING SERVICES AND FACILITIES

1	**Cargo handling facilities:**	Contact airport operations
2	**Fuel/oil types**	JET A1; AVGAS
3	**Fuelling facilities/capacity**	2 JET A1 Trucks - Capacity 18,000L 1 AVGAS Mobile Unit 2,000L Storage capacity - Jet A1 100,000L Storage capacity - AVGAS 50,000L
4	**De-icing facilities**	Mobile unit available (Type II 75/25 Hot)
5	**Hangar space available for visiting aircraft**	Limited – Contact AD ADMIN
6	**Repair facilities for visiting aircraft**	Shamrock Aviation Phone:+ 353 51 87 28 09
7	**Remarks**	Handling services available, contact Waterford Operations

EIWF AD 2.5PASSENGER FACILITIES

1	**Hotels**	Waterford
2	**Restaurants**	Bar with Tea/Coffee/Sandwiches & Snacks.
3	**Transportation**	Taxis and Car Hire from the AD (Prior notice required). Train from Waterford.
4	**Medical facilities**	First Aid at AD. Hospitals in Waterford.
5	**Bank and Post Office**	Waterford
6	**Tourist Office**	Waterford
7	**Remarks**	Nil

EIWF AD 2.6RESCUE AND FIRE FIGHTING SERVICES

1	**AD category for fire fighting**	CAT 2. Up to CAT 7 AVBL with 24 HR PN required to Operations
2	**Rescue equipment**	Operators to make own arrangements through IATA pool or other. Assistance (unskilled) available through local contractors. Contact the Co-ordinator as per AD ADMIN (Phone +35351846600)
3	**Capability for removal of disabled aircraft**	Contact Airport Authority
4	**Remarks**	Fire cover available during operating hours. 24 HR PN required to AD Duty Supervisor for services outside of operating hours.

EIWF AD 2.7SEASONAL AVAILABILITY - CLEARING

1	**Type(s) of clearing equipment**	1 runway snow plough 1 runway sweeper 1 snow blower 1 runway de icer
2	**Clearance priorities**	Search and rescue apron and taxiway, then runway, then taxiway A and apron, then taxiway B
3	**Remarks**	Nil

EIWF AD 2.8APRONS, TAXIWAYS AND CHECK LOCATION DATA

1	**Apron surface and strength**	Surface: CONC / Strength: PCN 19/F/C/Y/T			
2	**Taxiway width, surface and strength**	TAXIWAY	WIDTH	SURFACE	STRENGTH
		A	15 M	ASPH	PCN 19/F/C/Y/T
		B	15 M	ASPH	PCN 19/F/C/Y/T
3	**Altimeter checkpoint location and elevation**	Location: Terminal Apron / Elevation: NIL			
4	**VOR checkpoint**	Nil			
5	**INS checkpoint**	Nil			
6	**Remarks**	Nil			

EIWF AD 2.9SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	**Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands**	Taxiing Guidance System Signboards at intersection of TWY and RWY and at the Holding Point.
2	**RWY/TWY markings and LGT**	RWY Marked: Designator, THR, TDZ, C/L Lighted: RWY edge, RWY end, PAPI, Displaced Thresholds TWY Marked: Centreline, Holding position. Lighted: Edge.
3	**Stop bars**	Nil
4	**Remarks**	Nil

EIWF AD 2.10AERODROME OBSTACLES

In approach/TKOF areas			**In circling area and at AD**		**Remarks**
1			**2**		**3**
RWY/Area affected	**Obstacle type Elevation Markings/LGT**	**Coordinates**	**Obstacle type Elevation Markings/LGT**	**Coordinates**	
a	**b**	**c**	**a**	**b**	
03/APCH 21/TKOF	Tree 29.0 M / 96 ft Nil	521052.49N 0070531.80W	Reservoir Wall 85.0 M / 279 ft Nil	521242.73N 0070401.67W	

In approach/TKOF areas			In circling area and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a	b	c	a	b	
	Tree 29.0 M / 96 ft Nil	521049.52N 0070531.99W	Spot Height 119.0 M / 391T Nil	521110.23N 0070110.11W	
	Tree 36.0 M / 119 ft Nil	521040.46N 0070541.59W	Mast 144.5 M / 474 ft Nil	521109.61N 0070039.42W	
	Tree 35.0 M / 115 ft Nil	521041.79N 0070545.13W	Mast 149.0 M / 489 ft Nil	521108.45N 0070041.88W	
21/APCH 03/TKOF	Approach Light 38.0 M / 125 ft LGTD	521136.40N 0070459.00W	Aerial 149.5 M / 491 ft Nil	521108.01N 0070042.78W	
	Approach Light 39.5 M / 130 ft LGTD	521138.07N 0070457.96W	Mast 115.5 M / 379 ft Nil	521130.90N 0070809.21W	
	Approach Light 40.5 M / 133 ft LGTD	521141.05N 0070457.37W	Tree 82.0 M / 269 ft Nil	521211.85N 0070617.53W	
	Approach Light 40.5 M / 133 ft LGTD	521139.96N 0070457.61W	Tree 79.0 M / 260 ft Nil	521211.86N 0070616.22W	
	Bush on Fence 41.0 M / 135 ft Nil	521140.23N 0070456.84W	Tree 79.5 M / 261 ft Nil	521227.96N 0070610.42W	
	Bush on Fence 43.0 M / 141 ft Nil	521141.21N 0070459.37W	Spire at Tramore 114.0 M / 374 ft Nil	52094769N 0070922.03W	
	Approach Light 41.5 M / 137 ft LGTD	521141.61N 0070455.73W			
	Approach Light 43.0 M / 141 ft LGTD	521143.40N 0070454.59W			
	Bush on Fence 45.0 M / 148 ft Nil	521145.68N 0070456.41W			
	Bush on Fence 46.0 M / 151 ft Nil	521147.21N 0070455.54W			
	Bush on Fence 48.0 M / 157 ft Nil	521149.63N 0070454.99W			
	Pole 53.0 M / 174 ft Nil	521156.53N 0070449.61W			
	Building 52.5 M / 173 ft Nil	521157.51N 0070449.69W			

In approach/TKOF areas			In circling area and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a	b	c	a	b	
	Tree 71.5 M / 235 ft Nil	521227.26N 0070442.70W			
	Tree 74.5 M / 245 ft Nil	521229.53N 0070442.87W			
21/APCH 03/TKOF	Forest 58.5 M / 192 ft Nil	521146.90N 0070501.76W			
	Tree 36.5 M / 120 ft Nil	521135.09N 0070450.52W			
	Tree 43.0 M / 141 ft Nil	521139.02N 0070448.90W			
	Tree 43.0 M / 141 ft Nil	521139.74N 0070447.94W			
	Tree 41.0 M / 135 ft Nil	521140.05N 0070449.75W			
	Building 51.0 M / 168 ft Nil	521156.01N 0070448.07W			
	Pole 52.0 M / 171 ft Nil	521157.11N 0070446.75W			
	Pole 53.0 M / 174 ft Nil	521159.44N 0070448.87W			
	Tree 61.0 M / 200 ft Nil	521204.96N 0070452.97W			
	Pole 53.0 M / 174 ft Nil	521157.92N 0070450.71W			
	Pole 53.0 M / 174 ft Nil	521200.47N 0070452.84W			
	Building 52.0 M / 171 ft Nil	521201.01N 0070452.29W			
	Pole 54.0 M/ 178 ft Nil	521201.34N 0070450.29W			
	Pole 52.5 M / 173 ft Nil	521202.88N 0070445.96W			

EIWF AD 2.11METEOROLOGICAL INFORMATION PROVIDED

1	**Associated MET Office**	Central Aviation Office, Shannon Airport see GEN 3.5.4
2	**Hours of service**	Refer to EIWF AD 2.3
3	**Office responsible for TAF preparation** **Periods of validity** **Interval of issuance.**	Met Eireann Central Aviation Office, Shannon. 9 HR 3 HR
4	**Type of landing forecast** **Interval of issuance**	METAR. 30 Minutes.
5	**Briefing/consultation provided**	Personal
6	**Flight documentation** **Language(s) used**	Charts and Tabular English
7	**Charts and other information available for briefing or consultation**	Hourly Synoptic Chart; 6-hourly synoptic chart; 6-hourly prognostic chart (surface); prognostic chart of significant weather; prognostic chart of wind/temperature at upper levels; prognostic chart of tropopause levels.
8	**Supplementary equipment available for providing information**	Automated Weather Station at Waterford AD. EIWF Metar available on URL: http://www.waterfordairport.ie/weather Phone:+ 353 51 87 70 00 HR as per ATS.
9	**ATS units provided with information**	EIWF TWR
10	**Additional information (limitation of service, etc.)**	GEN 3.5.4.2

EIWF AD 2.12RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR Geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	021.01°	1433 M x 30 M	PCN 30/F/C/Y/T ASPH	521054.98N 0070524.89W 521135.57N 0070459.53W 184 ft	26 M /86 ft
21	201.01°	1433 M x 30 M	PCN 30/F/C/Y/T ASPH	521131.24N 0070502.24W 521052.27N 0070526.59W 184 ft	34.4 M /113 ft

Slope of RWY-SWY	SWY dimensions	CWY dimensions	Strip dimensions	OFZ	Remarks
7	8	9	10	11	12
Refer to Aerodrome Obstruction Chart Type A	Nil	Nil	1553 M x 150 M	Nil	Grooved Surface
	Nil	Nil	1553 M x 150 M	Nil	Grooved Surface

EIWF AD 2.13DECLARED DISTANCES

RWY Designator	TORA	TODA	ASDA	LDA	Remarks
1	2	3	4	5	6
03	1433 M	1433 M	1433 M	1343 M	THR 03 DISPLACED 90 M
21	1433 M	1433 M	1433 M	1290 M	THR 21 DISPLACED 143 M

EIWF AD 2.14APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ Length	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	SALS 360M, 1 crossbar at 300M	G	PAPI, Left Slope 3° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	Nil
21	CAT I 750 M 4 crossbars	G	PAPI, Left Slope 3.25° MEHT 26.0 ft	Nil	Nil	White 60 M Amber 450 M from runway end	R	Nil	Nil

EIWF AD 2.15OTHER LIGHTING, SECONDARY POWER SUPPLY

1	**ABN/IBN location, characteristics and hours of operation**	At Tower, FLG W/G, 12 per minute As per AD ADMIN EIWF AD 2.3.
2	**LDI location and LGT** **Anemometer location and LGT**	WDI Near THR 21 lighted Near THR 21 lighted
3	**TWY edge and centre line lighting**	Blue TWY Edge Only
4	**Secondary power supply/switch-over time**	Secondary Power Supply to all Lighting at AD/Switch-over 12 seconds.
5	**Remarks**	Nil

EIWF AD 2.16HELICOPTER LANDING AREA

Nil

EIWF AD 2.17ATS AIRSPACE

1	**Designation and lateral limits**	Waterford Control Zone Circle radius 10NM 521114N 0070513W (Waterford ARP)
2	**Vertical limits**	5000 ft AMSL
3	**Airspace classification**	C
4	**ATS unit call sign Language(s)**	Waterford Tower English

5	**Transition altitude**	5000 ft
6	**Remarks**	Airspace Classification outside hours of operation of ATC is uncontrolled Class G.

EIWF AD 2.18ATS COMMUNICATIONS FACILITIES

Service designation	Call sign	Frequency	Hours of Operation	Remarks
1	2	3	4	4
TWR	Waterford Tower	129.850 MHz	Refer to EIWF AD 2.3 AD ADMIN	Nil
GND	Waterford Ground	121.600 MHz		As directed by ATC
AFIS	Waterford AFIS	129.850 MHz		When ATC not available. Check NOTAM and refer to ATIS.
ATIS	Waterford ATIS	121.150 MHz		Nil

EIWF AD 2.19RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/ MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DME	IWD	110.9 kHz CH 46X	H24	521119.6N 0070502.0 W	110 ft	Designated Operational Coverage 25 DME reads Zero at RWY 21 THR. DME reads 0.3D at RWY 03 THR. Monitored only during hours as per ATS
NDB	WTD	368.0 kHz	H24	521120.4N 0070500.0 W		Designated Operational Coverage 25 Monitored only during hours as per ATS
ILS LLZ RWY 21	IWD	110.9 MHz	H24	521039.1N 0070534.8W		Monitored only during hours as per ATS
ILS GP RWY 21	IWD	330.8 MHz	H24	521123.2N 0070514.1 W		GP Angle 3.2º RDH 45 ft Full scale fly up indication may not be maintained when right of localizer sector and below glidepath. Glidepath flags may occur when right of centreline.

EIWF AD 2.20LOCAL TRAFFIC REGULATIONS

1. Landing, take off and manoeuvring on the aerodrome outside the published HR of operation of the aerodrome is not permitted unless such permission has been obtained in advance from aerodrome operations or is in the event of an emergency or a search and rescue (SAR) operation.

2. A booking system exists for instrument training, training periods may be booked by application to ATC

Phone:+ 353-51-846600

Fax: + 353-51-871701

Email: atc@waterfordairport.net

The filing of a flight plan does not constitute a booking. Failure to make a booking may result in the aircraft being refused the use of the facilities.

Pilots are requested to advise aerodrome operations of booking cancellations.

3. A booking procedure for all circuit training flights may be introduced by ATS during busy periods.

4. Aircrew and personnel are required to wear high visibility clothing at all times when airside.

5. Individuals or operators intending to base aircraft at the aerodrome must seek the prior written approval of the Airport Manager.

EIWF AD 2.21NOISE ABATEMENT PROCEDURES

Nil

EIWF AD 2.22FLIGHT PROCEDURES

1. Arrival Procedures

Clearance to enter the CTR

Aircraft flying the ATS Route System will be cleared into the CTA/CTR without having to request a specific entry clearance.

Arrival routes may be varied at the discretion of ATC.

Arrival Routes are based on holding patterns established at Waterford.

Shannon ATS will descend arriving traffic to the lowest usable flight level within controlled airspace (FL080 / Shannon Transition level if higher).

A lower level/altitude within controlled airspace may be coordinated with Waterford ATC.

Descent into the FIR (Class G Uncontrolled airspace)

Caution: Descent below FL080 or Transition level if higher, before the lateral limits of the Control Zone or associated stubs as outlined in ENR 2.1 will bring the flight into Shannon Class G (uncontrolled) airspace. There may be traffic operating in this airspace that is unknown and not operating with a transponder. Such descent, if requested, may be given at pilot's discretion with a clearance to re-enter controlled airspace at or descending to a specified level/altitude agreed with ATC. Flight information in the FIR is available from Shannon ATS on 127.500 MHz

2. Holding Procedures

Holding Point	LOC	Co-ordinates	MAG Track Inbound	Dir of Turn	Limiting Outbound Distance
WATERFORD WTD	-	521120N 0070500W	027°	Right Hand	-

Holding Point	Holding Level		Outbound Time	Max IAS (Racetrack Decent on IAP)	Remarks
	MNM	Max			
WATERFORD WTD	3000 ft/	FL070	1 Min	-	Nil

3. Communication Failure

In the event of communication failure, the pilot shall act in accordance with the communication failure procedures in ICAO Annex 2.

EIWF AD 2.23ADDITIONAL INFORMATION

Caution Wind Shear may be experienced under certain conditions on the approaches to RWY 21.

EIWF AD 2.24CHARTS RELATED TO AERODROME

Name	Page
Aerodrome Chart – ICAO	EIWF AD 2.24-1
Aerodrome Obstacle Chart RWY 03/21– ICAO TYPE A	EIWF AD 2.24-2
Instrument Approach Chart ILS/NDB/DME RWY 21 – ICAO	EIWF AD 2-24-3
Instrument Approach Chart LLZ/NDB/DME RWY 21 – ICAO	EIWF AD 2.24-4
Instrument Approach Chart NDB/DME RWY 21 – ICAO	EIWF AD 2-24-5
Instrument Approach Chart NDB/DME RWY 03 – ICAO	EIWF AD 2-24-6
Visual Approach Chart – ICAO	EIWF AD 2.24-7