



INECO

*AFIS*

*In Spain*





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### The Very Brief History of AFIS in Spain

- 11<sup>th</sup> June 2010: After approximately 9 months of preparatory work by a team of around 6 engineers, is certified by AESA as AFIS provider .
- INECO is the first certified company in Spain.
- The certification is based on European Community Certification.
- 29<sup>th</sup> July 2010: INECO initiates service provision at La Gomera Airport, substituting the previous ATC service to become Spain's first AFIS airport.

### Next:

- Implementation of AFIS
- AFISO Training
- AFIS LA Gomera
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- AFIS Burgos
- AFIS Huesca



## Implementation of AFIS

- Implementation of AFIS service was planned at six airports in the Aena network, two of them currently providing ATC services.
- The provision of this service is subject to relevant safety studies and NSA approvals.
- Currently, this service is provided at:
  - ✓ **La Gomera** airport, from 29<sup>th</sup> July, 2010.
  - ✓ **El Hierro**, now a mixed system ATC/AFIS.
  - ✓ **Burgos**
  - ✓ **Huesca**
- **La Rioja** and **Cordoba** airports are planned for 2013, and another ones presumably will come.

### Mainland Spain



### Canary Islands





## AFISO Training

AFIS personnel have undergone training provided by **SENASA**, certified by the Spanish NSA, **AESA**, which ensures that they have sufficient knowledge, experience and expertise.

Training in SENASA is carried out in two phases:

### **Lecture Phase:** 131 hours aeronautical knowledge

- Aeronautical law
- Systems and Equipments
- Air Navigation Services
- Aerodromes
- Meteorology
- Navigation
- Aircraft performances and Flight Principles
- AFIS Service
- Human Factors and Safety

### **Practice Stage:** 108 hours

- CBT :72 hours
- TWR simulator (pre-OJT): 36 hours.
- AFIS aerodrome (OJT)

**SENASA**

Services and Studies for Air Navigation and Aeronautical Safety

SENASA is Spain's leading company providing aviation training ranging over the whole professional spectrum in terms of aviation: air traffic controllers, pilots, engineering and air navigation maintenance technicians, communications and operational air navigation technicians.

“SENASA is an organization committed to ensuring air safety and it provides Aeronautical Services related to Consultancy, Technical Assistance, Training, and Aircraft Maintenance and Operation, both nationally and internationally, according to effectiveness, efficiency and quality criteria.”

Both, **AESA** and the **Ministry of Public Works**, monitor that AFIS service can be provided in accordance with safety, security and quality requirements.

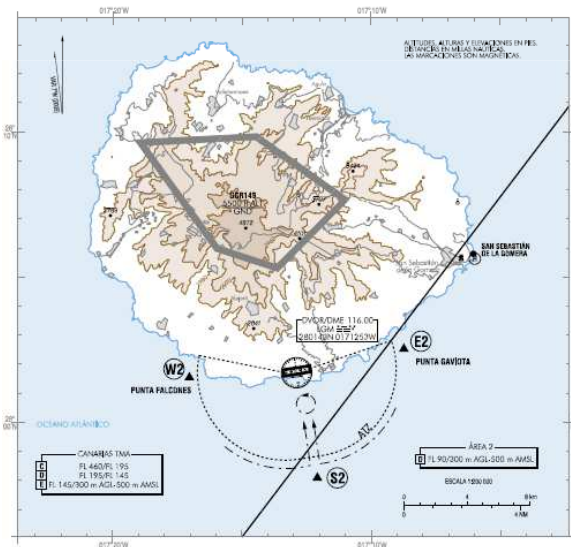
# Aerodrome Flight Information Service in Spain



## La Gomera



La Gomera is the second smallest of the seven Canary Islands and is managed by Aena Aeropuertos S.A. The airport is open from 8am until 6pm is available to visual traffic only. The unit is staffed by five AFISO, one of whom is the unit manager. The airport attends to two regular flights from Tenerife and another one from Gran Canaria, operated by regional airlines and moves around thirty five thousand passengers per annum.



# Aerodrome Flight Information Service in Spain



## El Hierro



El Hierro (Los Cangrejos) is the smallest and farthest south and west of the seven Canary Islands and is also managed by Aena Aeropuertos S.A.. The airport is currently open from 8am until 7pm is available to both visual and instrument traffic, and provides AFIS services on weekends and ATC the other days. The unit is again staffed by five AFISO, one of whom is the unit manager. The airport attends to up to six regular flights from Tenerife, and Las Palmas, operated by regional airlines and moves around 185,000 passengers per annum.

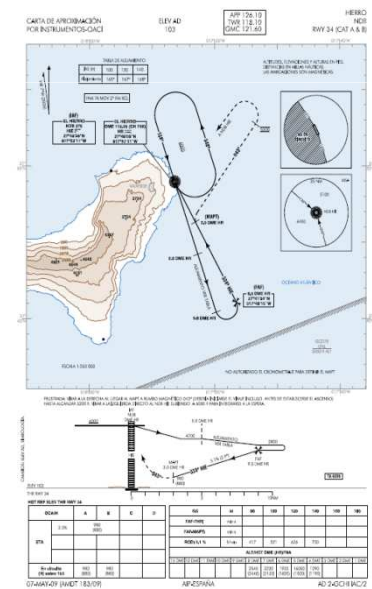
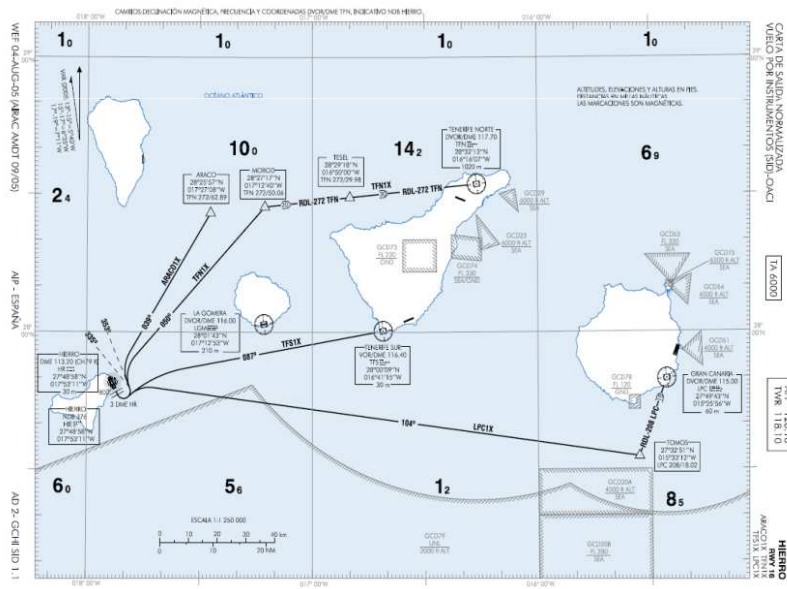
### Instrument Procedures:

#### Approach:

- IAC/1 - NDB RWY 16 (CAT A & B)
- IAC/2 - NDB RWY 34 (CAT A & B)

#### Departures:

- SID1- RWY16





## Burgos



Burgos, also known as Villafría is also an Aena Aeropuertos S.A. managed airport. The airport is available to visual and instrumental traffic. The unit is staffed by four AFISO, one of whom is the unit manager. The airport attends regular flights to Barcelona, and there is an aeroclub base too.



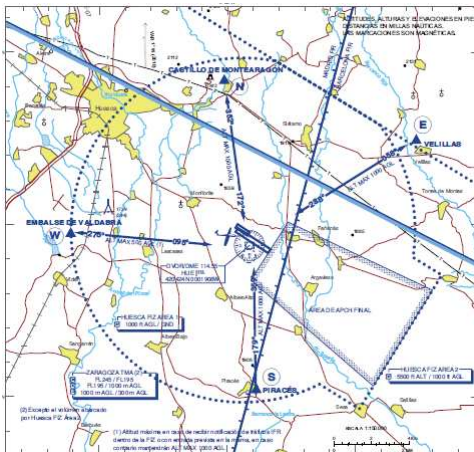
RWY	DIRECCIÓN	THR	RESISTENCIA
04	045°	42°21'01.72"N 003°37'20.48"W	RWY 04/22: PCN 78/F/A/W/T TWY: A, B: PCN 78/F/A/W/T C: PCN 50/F/A/Y/T
22	225°	42°21'51.42"N 003°36'17.73"W	PLATAFORMA P-1: PCN 58/R/A/W/T PLATAFORMA P-2: PCN 90/R/A/Y/T



## Huesca



Huesca, also known as Huesca-Pirineos and managed by Aena Aeropuertos S.A., is situated at 9 km from the city of Huesca. The airport is available to visual and instrumental traffic. The unit is staffed by four AFISO, one of whom is the unit manager. It is often used by gliders, and also by charter companies on the winter season.



RWY	DIRECCIÓN	THR	RESISTENCIA
12R	124°	42°04'51.33"N 000°19'38.29"W	RWY 12R/30L & TWY A: PCN 75/F/A/W/T
30L	304°	42°04'14.44"N 000°18'21.52"W	
12L	124°	42°04'56.75"N 000°19'35.77"W	RWY 12L/30R: 950 Kg / 0,18 MPa
30R	304°	42°04'45.95"N 000°19'13.29"W	TWY B: 598 Kg/0,16 MPa
			PLATAFORMA: PCN 49/R/B/W/T





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*Thanks for your time  
and attention*