

The IAA require specific information to integrate safety significant obstacle (SSO) data into our published database. The data shall be presented at the next charting workshop to determine its inclusion in the database.

1. Geographic coordinates need to be based on the WGS-84 horizontal datum.
2. Geographic coordinates need to represent the center of the obstacle.
3. SSO heights shall be based on Above Ground Level vertical datum.
4. SSO elevations shall be based on Above Mean Sea Level vertical datum.
5. Horizontal and vertical accuracies for the obstacle data should be provided.
6. Original source of data should be identified.

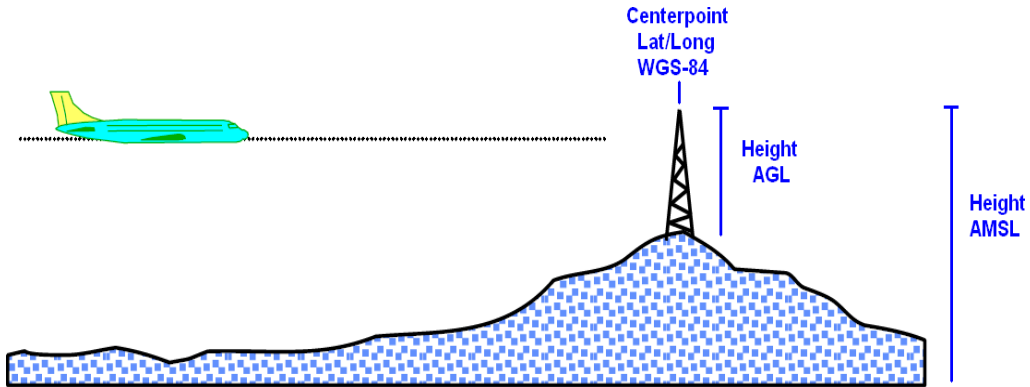


Figure 1 Obstacle Configuration

Basic SSO data configuration is shown in Figure 1. Use the diagram to help obtain the correct information. Enter the information on the form on Annex I, complete the Risk Assessment on Annex II and send to airspace@iaa.ie.

E-mail us with any questions, issues, or comments you may have concerning the provision of SSO data.

Potential Safety Significant Obstacle Submission Form

Contact Details	
Name	
Date	
Company	
Telephone	
Email	
Attached file (Y/N)	
Obstacle Data	
An Excel/CSV file may be provided for larger datasets. Submit contact info using the form above.	
Obstacle identifier (If applicable)	
Obstacle Description	
Latitude (DD° MM' SS.SS" N)	
Longitude (DDD° MM' SS.SS" W)	
Elevation (ASML)	
Height (AGL)	
Horizontal accuracy	
Vertical accuracy	
Lighting	
Marking	
Source of data (e.g. GPS, OSI, etc.)	
Date and time stamp of survey	

Potential Safety Significant Obstacle Risk Assessment Template

1. **SSO Risk Value Explanation.** Below are a simplified risk assessment values from the guidelines as laid out in ICAO Safety Management Manual (SMM), document 9859 Part 6. Included in the following ICAO table is how the simplified values correspond to the ICAO values.

Table 6-1. ICAO Risk Assessment Matrix Principles & Simplified Values

SEVERITY OF CONSEQUENCES			LIKELIHOOD OF OCCURRENCE			Simplified IFP Safety Risk Assessment	
Aviation definition	Meaning	Value	Qualitative definition	Meaning	Value	Meaning	Value
Catastrophic	Equipment destroyed. Multiple deaths.	5	Frequent	Likely to occur many times	5	High risk	5
Hazardous	A large reduction in safety margins, physical distress or a workload such that the operators cannot be relied upon to perform their tasks accurately or completely. Serious injury or death to a number of people. Major equipment damage.	4	Occasional	Likely to occur sometimes	4	Medium risk	4
Major	A significant reduction in safety margins, a reduction in the ability of the operators to cope with adverse operating conditions as a result of an increase in workload, or as a result of conditions impairing their efficiency. Serious incident. Injury to persons.	3	Remote	Unlikely, but possible to occur	3		3
Minor	Nuisance. Operating limitations. Use of emergency procedures. Minor incident.	2	Improbable	Very unlikely to occur	2	Low risk	2
Negligible	Little consequence.	1	Extremely improbable	Almost inconceivable that the event will occur	1		1

ICAO Safety Management Manual (SMM), document 9859 Part 6 states:

“6.4.2 When the acceptability of the risk has been found to be Undesirable or Unacceptable, control measures need to be introduced – the higher the risk, the greater the urgency. The level of risk can be lowered by reducing the severity of the potential consequences, by reducing the likelihood of occurrence or by reducing the exposure to that risk.”

Potential Safety Significant Obstacle Risk Assessment Template

2. Potential Safety Significant Obstacle Risk Evaluation

An Excel/CSV file may be provided for larger datasets.

Identifier (if applicable)	Latitude (DD° MM' SS.SS" N)	Longitude (DDD° MM' SS.SS" W)	Risk (1-5)	Notes (Insert Explanation / Justification)

3. **Recommendation.** The Potential Safety Significant Obstacle Safety risk is [un]acceptable & should (not) be included in the State Safety Significant Obstacle database.

4. **Notes.**

- a. SRD will consider the proposal, based on the provided risk assessment & recommendation.
- b. If approved as a Safety Significant Obstacle the following actions will occur:
 - The Safety Significant Obstacle database will be updated.
 - A hand amendment will be issued.
 - Prior to the publication of a new 1:500,000 or 1:250,000 aeronautical chart, all Safety Significant Obstacle hand amendments will be reviewed by the charting workshop to determine if they are to be included in the charts going forward.