



**AVSIS Presentation  
SMS Focus Group  
May 13, 2008**

# **Aviation Safety Information System (AVSiS)**

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## **Summary:**

- ④ **AVSiS is a safety event reporting and management system.**
- ④ **AVSiS was developed in co-operation with leading airlines - specifically for safety managers.**
- ④ **AVSiS logs safety events as incidents (events with a direct safety implication) or occurrences (events which could have resulted in an incident).**
- ④ **AVSiS enables the user to categorize the event and apply a severity rating (SMS / System Safety).**

# **AVSiS: Summary**

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- ⊕ **AVSiS tracks event investigations and flags overdue items. The Safety Manager can make recommendations and monitor implementation.**
- ⊕ **AVSiS provides statistical reports and graphical trend analyses by incident type, aircraft model location, or other specified field. The AVSiS Query Builder is a powerful and flexible tool to find the records you require.**

# **AVSiS: Features**

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- ② **Log air safety related incidents (including ground and cabin events)**
- ② **Categorize and grade for severity and risk**
- ② **Built in standard lists (e.g., event type, airport code, aircraft type/model)**
- ② **Collects additional detail for special events such as Bird Strike, TCAS and Hazardous Materials**
- ② **Follow up investigation**

# **AVSiS: Features**

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- ② **Task Manager flags overdue items and integrates with e-mail**
- ② **Set up the address book and distribution lists**
- ② **Identify probable cause, including human factors**
- ② **Make recommendations for action and check implementation**
- ② **Analytical reports with charts**
- ② **Monitor trends**

# **AVSiS: Features**

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- ② **Set-up user rights to form and record access level**
- ② **Query historical records**
- ② **Attach documents, picture and multimedia clips**
- ② **Audit trail provides a log of historical changes**
- ② **User definable fields**
- ② **Remote reporting**

## **AVSiS: Benefits**

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- ② **Designed for a non-blame safety culture**
- ② **Enables safety improvement**
- ② **Standardizes event logging**
- ② **Builds staff confidence (secure)**
- ② **Encourages reporting**
- ② **Boosts safety office productivity (Task Manager e-mailing system)**
- ② **Identify human factors**


Record View

Save Cancel Next Previous

# AVSIS

## General Details

Reference:  

Event Logged By:  

Event Category:

Event Reported Date:

Event Date:  Event Time:  Zulu/Local:

Event Type:

Event Status:

Accident  
 MDR  
 ASRS  
 FAR/JAR Violation  
 OSHA Violation  
 EPA Violation  
 ASAP  
 FDM/FOQA Event

### Location Details:

Location Set-Up Details(Add/Edit/Delete Location) ... 













IATA Location Code:   ICAO Location Code:  

Location:  Country:

FIX:

Runway:

Ground Location:

-  Flight Details
-  Aircraft Details
-  Description
-  Environment Details
-  Personnel Details
-  User Defined Fields
-  Consequences
-  Areas Involved
-  Technical Details
-  Third Parties Involved
-  Requested Reports
-  Notes



Record View

Save   
  Cancel   
  Next   
  Previous

# AVSIS

General Details

Flight Details

Weather Details

Time and Date

Flight Details

Weather Details

User Defined Fields

Consequences

Operational

Flight Details

Weather Details

Operational

Notes

Attachments

## General Description

Copy   
  Paste   
  Undo   
  Redo   
  Print   
  Refresh   
  Stop   
  Home   
  Back   
  Forward   
  Stop   
  Home   
  Back   
  Forward

Whilst descending through flight level.....

Views

Attach

Delete

Open

Name

Type

Size

Number of Attachments : 0

Record View

Save Cancel Next Previous

# AVSIS

General Details

Flight Details

Aircraft Details

Description

Environment Details

Personnel Details

User Defined Fields

Consequences

Notes

Risk Details

## Areas Involved

ATA Chapter List/Search ATA Chapter List...

- ATA Chapter List
- 2100 - Air Conditioning
- 2200 - Auto Flight
- 2300 - Communications
- 2400 - Electrical Power
- 2500 - Equipment & Furnishings
- 2600 - Fire Protection
- 2700 - Flight Controls
- 2800 - Fuel
- 2900 - Hydraulic Power
- 3000 - In-flight Entertainment

Areas Involved

Areas Involved Description

F A B I U T

Views Details

Attach

Delete

Open

Name

Type

Size

Number of Attachments : 0

Record  View



Save  Cancel



Next



Previous

# AVSIS

Aircraft Details

Description

Environment Details

Personnel Details

User Defined Fields

Consequences

Areas Involved

Technical Details

Third Parties Involved

Requested Reports

Notes

Probable Causes

Recommendations

Cost Details

## Risk Details

Severity (worst possible realistic outcome):

1 - Minor	2 - Major	3 - Hazardous	4 - Catastrophic
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Likelihood:

1 - Extremely Improbable	2 - Extremely Remote	3 - Remote
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### Risk Tolerability Matrix

4 - Review	8 - Unacceptable	12 - Unacceptable	16 - Unacceptable
3 - Acceptable	6 - Review	9 - Unacceptable	12 - Unacceptable
2 - Acceptable	4 - Review	5 - Review	8 - Unacceptable
1 - Acceptable	2 - Acceptable	3 - Acceptable	

Severity ↑

↑ Likelihood

Severity Assigned By:

Event Owner:

Internal Department

Third Party

Record View

Save Cancel Next Previous

# AVSIS

## Cost Information - Customer Service

Customer Service | Maintenance | Flight Operations and In-Flight | General Details

	Number	Value	Total (Read only)
Hotel Rooms (# nights):	40	100	4000.00
Ground Transportation:	40	25	1000.00
Vouchers :			
Coupons :			
Upgrades :			
Refunds :			
Customers ticketed on other airlines :			
Cost of de-servicing Aircraft :			
Cost of re-servicing Aircraft :			
Cargo late delivery fees :			
Perishable Cargo fees :			
Employee Overtime Costs (# hours) :			
Employee Extra Staff Costs (# hours) :			
Other Costs :			
<b>Customer Services - Total Cost :</b>			<b>5000.00</b>

Customer Services Other Costs Description

Views: Details Attach Delete Open

Name Type Size

Number of Attachments : 0

General Details

Flight Details

Aircraft Details

Description

Environment Details

Personnel Details

User Defined Fields

Consequences

Areas Involved

Technical Details

Third Parties Involved

Requested Reports

Notes

Probable Causes

RISK/STATUS

Recommendations

# AVSIS

AVSIS File Edit Views Options Marked Events Help

Quit New Edit Delete Print Preview Export Remote ASR Query Help

Go to Reference Go [Navigation icons]

Standard System View - No Filters

Go to Reference [Navigation icons]

Alt	Marked	Event	Event Date	Event Type	Event Loc	Event Status	Phase of Flight	Aircraft Reg	Aircraft Master Model	Engine M
		10	03/02/2003	Landing Heavy	CDG	Open	Landing	G-MJJC4	HANDLEY PAGE-HP137	250-C
		11	06/03/2003	Cockpit Smoke	*ER	Closed	Descent	G-MJJC3	AIRBUS-A320	CFM56-2
		12	16/09/2002	Undercarriage Tyre	EMA	Closed	Landing	G-MJJC1	AIRBUS-A320	CFM56-2
		13	28/01/2003	Ground Damage	MAN	Closed	Ground	G-MJJC5	HANDLEY PAGE-HP137	250-C
		14	05/12/2002	Ground Equipment Tie-down	MAN	Closed	Ground	G-MJJC5	HANDLEY PAGE-HP137	250-C
		16	16/05/2003	Air System	*ER	Open	Cruise	G-MJJC1	AIRBUS-A320	CFM56-2
		17	26/11/2002	GPWS/EGPWS	*ER	Closed	Descent	G-MJJC1	AIRBUS-A320	CFM56-2
		18	16/01/2003	Cockpit Smoke	*ER	Closed	Descent	G-MJJC3	AIRBUS-A320	CFM56-2
		19	30/04/2003	Pax Behaviour	*ER	Closed	Climb	N560MC	ATR-ATR42	PW100
		2	29/04/2003	Birdstrike Damage	EMA	Open	Init Climb	G-MJJC1	AIRBUS-A320	CFM56-2

- AVSIS Modules
- Data Manager
- Safety Enhancements
- Safety Events
- Reports Manager
- Safety Enhancement Rep
- Safety Event Reports

Customised Screen Views Standard System View

Number of Records: 25

### General Details

1

East Mids Ops

Incident

05/03/2003

05/03/2003

Altitude Bust

Closed

13:10:27

24/03/2003

Accident  
 MOR  
 ASRS  
 FAR/JAR Violation  
 OSHA Violation  
 EPA Violation  
 ASAP  
 FDM/FOQA Event

User: administrator

# Remote Air Safety Reporting

LOG OUT



Personnel Details	General Details	Flight Details	Additional Details	Submit
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\* Fields marked with a star must be completed

Event Date (dd/mm/yyyy) \*   Event Time (hh:mm)

Event Report Type   Enable Environment Details  (if required)

Location Code

Location / Fix

Runway

Event Description \*

Add Attachment

<< Personnel Details

Flight Details >>