

# DASOR TAXONOMY SYSTEM v4

This document is the complete DASOR Taxonomy, its purpose is to provide a quick reference guide for Investigators to assist in the codification of DASORS either by PDF or on ASIMS. The guide lists each of the taxonomies used within the Findings section of the DASOR, the Findings section is comprised of the Outcome, Cause and Causal Factors and each component must be coded when completing the DASOR.

## **Outcome Taxonomy**

### **ATC/ABM/ALI**

(Air Traffic/Battle Space Management)

#### Airfield Management

##### Airfield

Arrestors/Barriers Availability Degraded  
Degraded/Inappropriate Infrastructure  
Emergency Power Failure  
Inadequate Lighting (Adequacy)  
Inadequate Markings  
Inadequate Signage  
Power Failure

##### Emergency Services

Communication  
Response Effectiveness  
Response Time

##### Operating Surface

Degraded Integrity  
Excursion  
Incursion

##### Wildlife Control

Airfield Incursion  
Wildlife Strike

### ATS Provision Error

#### Communication

Circuit Information Error  
Clearance Error  
Congestion  
Coordination Error  
Essential Calls Error  
Handover Error  
Incorrect ATC English  
Liaison Error  
Warning Error

#### Service

Avoiding Action Error  
Division of Attention  
Excessive Workload  
Incorrect Priorities  
Mis-identification  
Planning Error  
Reduced Capacity and Awareness  
Reduced Separation  
Scan Breakdown  
Sector/Console Management Error  
Track Allocation Error  
Traffic Information Error

### FOD Exposure

#### FOD

On Control Surface/Aircraft Skin  
On Ground/ASP  
Other

### Oversight/Procedure Error

#### Checklists/Procedures

Incorrect Brief/Out Brief/Debrief  
Not Followed  
Procedure Incorrect  
Procedure Misapplied  
Revision Management

#### Positional Error

##### Airspace

Altitude/Level Bust  
Altitude/Level Deviation  
Confliction  
Congestion  
Excursion  
Heading Deviation  
Incursion  
Infringement  
Overflight of a Winch Launch Glider Site

#### RPAS

##### Mission Planning

En-Route Procedures

##### Weapons Control

Pre-Flight  
Clearance Error

#### Technical Fault

##### Technical Fault

Technical Fault

### Air Operations

(Post Aircraft Captains Signature)

#### Degraded Aircraft Integrity

##### Item Detached from Aircraft

Attached Loads  
Carry On Items  
Integral Component  
Observations  
Temporary Load

#### Degraded Environmental Conditions

##### Landing Visibility Decrease

Brownout  
Red Illumination  
Visual Acuity  
Whiteout

##### Natural Operating Factor

Abrasion  
Accretion  
Aquaplaning  
Contamination  
Hail Damage  
Icing  
Lightning Strike  
Solar Damage  
Visibility Decrease  
Wildlife Strike  
Wind Effect

#### Environmental Conditions

##### Natural Operating Factor

Sinking Air  
Birdstrike

#### Emergency Procedures

##### Aircraft Escape

Accidental Canopy Jettison  
Ejection  
Ground Egress/Evacuation  
In Flight Abandonment

##### Diversion/Deviation

Forced  
Gliding Landout  
Unplanned

##### Fire/Smoke/Fumes/Explosion

Explosion  
Fire  
Smoke/Fumes

##### In-flight Power Loss

Engine Shutdown  
Reduced Power  
Power Loss  
Winch Launch Failure  
Winch Operator Error

##### Physiological

G-LOC  
Hypoxia

### Illness

Loss of Pressurisation

#### FOD Exposure

##### FOD

In Aircraft  
In Cockpit/Cabin  
In Engine/Lift Fan  
On Control Surface/Aircraft Skin  
On Ground/ASP  
Other

#### Loss of Safe Separation

##### Airprox

Co-operating  
Non Co-operating

##### CFIT

Structure  
Surface  
Surface Based Object (Obstruction)

##### Collision (Ground/Hover/Manoeuvring)

Aircraft  
Ground Equipment  
Personnel  
Structure e.g. Hangar  
Terrain  
Vehicle

##### Automatic Ground Collision Avoidance System (AGCAS)

AGCAS Activation

##### Mid Air Collision (MAC)

Co-operating  
Non co-operating

##### Near CFIT

Structure  
Surface  
Surface Based Object (Obstruction)

##### TCAS-RA

Confliction  
Erroneous Warning

##### UFIT

Structure  
Surface  
Surface Based Object (Obstruction)

#### Oversight/Procedure Error

##### Approval/Supervision

Authorisation Error/Exceedance  
Supervision Error

##### Checklists/Procedures

Incorrect Briefing/Out Brief/Debrief  
Not Followed  
Procedure Incorrect  
Procedure Misapplied  
Revision Husbandry

##### Aircraft Documentation/IT

Not Signed For

## Positional Error

### Airspace

- Altitude/Level Bust
- Altitude/Level Deviation
- Excursion
- Heading Deviation
- Infringement

### Navigation Error

- Navigation Kit Management
- Position
- Timing

## Specialist Activity

### AAR

- Unsafe Approach/Contact
- Unsafe Disengagement
- Unsafe Formation
- Unsafe Fuel Transfer

### Air Delivery (non-weapon)

- Unsafe Cargo Drop
- Unsafe Para Drop

## Systems Mismanagement

### Fuel

- Battery Failure (RPAS)
- Contamination
- Incorrect Fuel Type
- Incorrect Quantity
- Jettison
- Mis-management

### Systems Operation

- Operational Limit Exceeded
- Switch Position/Control Selection Error

## Technical Fault

### Technical Fault

- Technical Fault

## Unintended Consequence

### Unintended Effect

- Disturbance
- Downwash
- EM Radiation
- Jetwash
- Noise
- Prop Wash
- Vibration

## Unsafe Aircraft Configuration

### Ordinance/Role Equipment/USL

- Inadvertent Release/Jettison
- Unsafe Carriage
- Unsafe Release/Jettison

## Unsafe Aircraft Handling (Air)

### Approach

- Incorrect Configuration
- Missed Approach
- Unstable Approach

### Control of Aircraft

- Aircraft Overstress
- Control Restriction
- Insufficient/Undercontrol
- Lost GPS (RPAS)
- Pilot Induced Oscillation
- Spin/Loss of Control
- Stall
- Uncommanded Manoeuvre

### Landing

- Barrier Engagement
- Cable Engagement
- Deep Landing
- Ditching
- Ground Loop
- Hazardous Landing
- Heavy/Hard Landing
- Overshoot
- Precautionary Landing
- Runway Excursion
- Runway Overrun
- Undershoot
- Unplanned Recovery (RPAS)
- Wake Turbulence
- Wing Drop

### Lost Link (RPAS)

- Deviation from Clearance
- No deviation from Clearance

### Take Off

- Aborted Take Off
- Failed Launch (RPAS)
- Hazardous Take Off
- Incorrect Configuration
- Runway Excursion
- Runway Overrun
- Wake Turbulence
- Wing Drop

## Unsafe Aircraft Handling (Ground)

### Aircraft Ground Handling

- Handling
- Marshalling
- Safety Pins/Flags/Blanks
- Towing

### Taxiing

- Operating Surface Excursion
- Runway Incursion

## Airworthiness

(Depth Activity, inc Aircraft Manufacture)

### Maintenance Management Issue

#### Apply Limit

- Documentation
- Non-Compliant
- Procedure Incorrect
- Procedure Misapplied

#### Component Cannibalisation

- Authorisation
- Records
- Requirement

#### Configuration Control

- Configuration Error

#### Data

- Analysis Error
- Collection
- Integrity

#### Defect Deferral

- Documentation
- Non-Compliant
- Procedure Incorrect
- Procedure Misapplied

#### Extension

- Documentation
- Non-Compliant
- Procedure Incorrect
- Procedure Misapplied

#### Installation

- Inadequate Training
- Incorrect Installation
- Incorrect Tools

#### Modification

- Incompatible
- Not Embodied
- Not Recorded
- Unauthorised

#### Monitor and Control

- Monitoring and Control Error

#### Operational Constraints

- Enemy Action
- Natural Environmental Conditions
- Physical Environmental Conditions

#### Plan and Schedule

- Delay
- Planning Error
- Schedule Error

#### Scheduled Task

- Forecast
- Incomplete
- Overdue
- Records

## Support to Forward Organisation

### Maintenance

- Repair

### Technical Record (Log)

- Information Integrity
- Information Validity

### Policy Issue

#### Directive

- Inappropriate Timescales
- Unclear Direction

#### Mitigation Strategy

- Disproportionate
- Inappropriate
- Ineffective
- Unaffordable

#### Publications

- Husbandry Error
- Inaccuracy
- Insufficient Availability

#### Standards/Requirements

- Ambiguous
- Communication Issue
- Contradictory
- Inconsistent

#### Training

- SQEP

### Project Management Issue

#### In to Service Plan

- Contract Error
- Financing Error
- Non-compliant
- Planning Error

#### Performance

- Specification Error
- Under Performance

#### Procurement

- Financing Error
- Insufficient
- Non-compliant
- Planning Error

#### Risk

- Error in Management
- Hazard Not Identified
- Not ALARP

### Technical Fault

#### Technical Fault

- Technical Fault

General  
(All other inc Personal Injury, Hostile Action, Organisational)

Hostile/Unfriendly Action

Kinetic Attack

Air-Air  
Air-Ground  
Ground-Air  
IED  
Indirect Fire  
Sabotage  
Small Arms Fire

Non-Kinetic Attack

Cyber  
Electronic Warfare  
Illumination

Organisational Fault

Organisational Fault

Equipment  
Infrastructure  
Information  
Logistics  
Organisation  
Personnel  
Policy/Doctrine  
Training  
Working Together (Interoperability)

Other

Other

Other

Personal Injury

Personal Injury

Caught in/On/Between  
Hazard Contact/Exposure  
Incorrect Technique  
Slip/Trip/Fall  
Struck By

Ground Operations  
(Forward Activity to Pre Captains Signature)

Emergency Procedures

Fire/Smoke/Fumes/Explosion

Explosion  
Fire  
Indication/Warning  
Smoke/Fumes

FOD Exposure

FOD

In Aircraft  
In Cockpit/Cabin  
In Engine/Lift Fan  
In Open System  
On Control Surface/Aircraft Skin  
On Ground/ASP  
Other

Failure to maintain safe separation

Collision – Involving Aircraft

Aircraft  
Ground Equipment  
Personnel  
Structure e.g. Hangar  
Vehicle

Collision – Non Aircraft

Ground Equipment  
Personnel  
Structure e.g. Hangar  
Vehicle

Maintenance Activity Error

Aircraft Documentation/IT

Ambiguity  
Data Integrity  
Incomplete  
Not Signed For  
Release of an unairworthy aircraft  
Signed in Error

Fault Diagnosis

Failed to Isolate Fault  
Inconclusive Functional Test  
Inconclusive Inspection  
Inconclusive Operational Test  
System Left in Unsafe Condition

Fuelling

Connection Issue  
Contamination  
Incorrect Fuel Type  
Incorrect Quantity  
Panels/Access Not Secure  
Spill

Fault Diagnose

Failed to Isolate Fault  
Inconclusive Function Test  
Inconclusive Inspection  
Inconclusive Operational Test  
System left in Unsafe Condition

Installation/Repair

Equipment/Part Missing  
Incorrect Assembly/Installation  
Incorrect/Unsafe Part  
Panels/Access Not Secure  
Part/Item Damaged  
System Left in Unsafe Condition

Servicing

A/C Component Condition/Serviceability  
Jacking  
Not Carried Out  
Panels/Access Not Secure  
Replenishment Error  
Safety pins/Flags/Blanks  
Damage to Aircraft  
Tasking Error

Oversight/Procedure Error

Approval/Supervision

Authorisation Error/Exceedance  
Supervision Error

Checklists/Procedures

Incorrect Briefing/Out Brief/Debrief  
Not Followed  
Procedure Incorrect  
Procedure Misapplied  
Revision Management

Security Compromised

Cyber

Cyber Security Event  
Data Integrity; Poor / Missing  
Incorrect Load  
Lack of / Incorrect Hardware  
Lack of / Incorrect Software  
Lack of / Incorrect training for system  
Unable to Load

Physical Security

Security Compromised  
Threat to Aircraft/Equipment  
Threat to Personnel

Technical Fault

Technical Fault

Technical Fault

Unsafe Aircraft Handling (Ground)

Aircraft Loading

Incorrect Configuration  
Loading/Off Loading Error  
Weights/Measures Error

Aircraft Movements

Marshalling Error  
Parking/Restraint/Hangarage Error  
Safety Pins/Flags/Blanks  
Towing Error

Vehicle/GSE/Tools/Equipment

Ground Support Equipment/Vehicle

Defective  
Handling

Husbandry/Storage  
Improper Use  
Maintenance Error  
Tools and Equipment  
Defective  
Handling  
Husbandry/Storage  
Improper Use  
Maintenance Error  
Not Controlled

**Cause Taxonomy**

Environmental

Airborne Particulates

Abrasion  
Accretion  
Chemical Etching  
Visibility

Physical Environment

Bird Activity  
Contamination  
Immersion/Splash  
Sea State  
Terrain  
Wildlife Activity

Weather

Changing Weather  
Clear Air Turbulence  
Cold  
Crosswind  
Hail  
Heat  
Humidity  
Icing  
Lightning  
Precipitation

Sink

Space Weather  
Tailwind  
Thunderstorm  
Turbulence  
Visibility  
Wind  
Wind Shear

Human Factors Performance

Action/Execution

Cognitive Breakdown  
Control/Handling  
F2FP - Following Incorrect  
Process/Procedure  
F2FP - Inappropriate  
Process/Procedure  
F2FP - Intentional and Unauthorised  
Deviation From a Suitable  
Process/Procedure

F2FP - Undetermined Deviation From Suitable Process/Procedure  
 F2FP - Unintentional Deviation From Suitable Process/Procedure  
 Human Fatigue  
 Operation/Use  
 Other  
 Previous synthetic action/Decision  
**Cause Undetermined**  
 Cause Undetermined  
**Decision – Hazard Plan/Mitigation**  
 Option/Decision Process  
**Perception – Situational Awareness**  
 Hazard Assessment  
 Hazard Awareness  
Non-Service Control  
 Non-Service Control  
 Non-Service Control  
Technical  
 Design/Manufacture  
 Faults/Flaws  
 Material Spec  
 Not Fit For Purpose/Unsatisfactory Eqpt  
**Fault Not Positively Determined**  
 Fault not Positively Determined  
**Operational/Performance**  
 Design Limit  
 Failed to Function as Designed  
 Wear and Tear  
 Worked Loose/Disconnected  
Unfriendly/Hostile Action  
 Unfriendly/Hostile Action  
 Unfriendly/Hostile Action  
  
**Causal Factors Taxonomy**  
Environmental Factors  
**Natural Environment**  
 Airborne Particulates  
 Bird Activity  
 Changing Weather  
 Clear Air Turbulence  
 Cloud  
 Cold  
 Crosswind  
 Hail  
 Heat  
 Humidity  
 Immersion/Splash  
 Light Levels  
 Lightning  
 Precipitation  
**Sink**  
 Sea State  
 Space Weather  
 Tailwind  
 Terrain

Thunderstorm  
 Turbulence  
 Visibility  
 Wildlife Activity  
 Wind  
 Wind Shear  
**Workspace**  
 Air Pressure  
 Configuration/Layout  
 Ergonomics  
 Life Support  
 Lighting  
 Manoeuvring Forces in Flight  
 Manoeuvring Forces on Ship  
 Noise  
 Safety  
 Signs/Markings  
 Temperature  
 Ventilation  
 Vibration  
 Visibility  
Individual Factors  
**Competence**  
 Experience  
 Knowledge  
 Skills  
**Performance**  
 Actions/Execution  
 Compliance  
 Decision Making Process  
 Distraction  
 Hazard Awareness/Perception  
 Human Fatigue  
 Perceived Pressure/Stress  
 Performance  
 Task Fixation  
 Workload  
**Precondition**  
 Emotional State  
 Health  
 Learned Behaviours  
 Mental Capacity  
 Physical Capacity  
 Physical Characteristics  
 Sensory Ability  
  
Non Identified  
 Non Identified  
 Non Identified  
  
Non -Service Control  
 Non -Service Control  
 Non -Service Control  
Organisational Factors  
 Acquisition/Provision

Equipment  
 Finance  
 IT  
 Infrastructure  
 Logistics  
 Personnel  
 Training  
**Communication**  
 Between Organisations on task  
 Others affected by task or outcome  
 Within Organisations on task  
**Culture**  
 Commercial  
 Leadership  
 Operational  
 Safety  
**Information**  
 Aeronautical  
 Geographical  
 Marine  
**Management**  
 Change  
 Program  
 Safety/Risk  
 Structure  
**Policy/Doctrine**  
 Doctrine  
 Policy  
 Requirement  
**Regulation/Oversight**  
 Assurance  
 Documents  
 Guidance  
 Regulation  
Team/Task Factors  
**Communication**  
 Between teams on task  
 Others affected by task or outcome  
 Within team on task  
**Culture**  
 Leadership  
 Normal Practise  
 Ops Tempo  
 Workload  
**Management**  
 Change  
 Resources/CRM  
 Safety/Risk  
 Structure  
**Planning**  
 Aims/Expectation  
 Coordination/De-confliction  
 Information  
 Team Composition  
**Process/Task**  
 Change

Clarity  
 Complexity/Difficulty  
 Irregular Activity  
 Procedures  
 Regular/Repetitive Activity  
**Provision**  
 Equipment  
 Finance  
 IT  
 Personnel  
 Training  
**Regulation**  
 Assurance  
 Authorisation  
 Currency/Proficiency  
 Documents/Orders  
 Guidance  
 Supervision  
Technical Factors  
**Aircraft**  
 Access/Egress  
 Assembly  
 Configuration  
 Ergonomics  
 Function  
 Identification  
 Layout/Space  
 Manufacture  
 Normal Wear and Tear  
 Performance  
 Sensory Feedback  
**Equipment/Tools**  
 Access/Egress  
 Assembly  
 Configuration  
 Ergonomics  
 Function  
 Identification  
 Layout/Space  
 Manufacture  
 Normal Wear and Tear  
 Performance  
 Sensory Feedback

## Effects Taxonomy

Aircraft or Equipment Damage

Down Time (Days)

Environmental Impact

Financial Cost

Flight Effect

Duty Not Carried Out

Duty Partially Carried Out

Flying Program Delayed

Inability to Deliver Weapon

Sortie Cancelled

Nil Effect

Operational Output Degraded

Personal Injury

Reputational Impact

Workforce Hours Expanded

Workload Effect

Degraded Service

Person-hours Expanded

Reduced Capacity