

# 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

- Navigational 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

### 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

## 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

Fuelling

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

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  
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  
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**