

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 Lightings (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**