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| **Failure Recording Log (FRL) Template** |

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| **NOTE: The FRL is to be used to record *all* failures, faults and malfunctions applicable to the *UAS*.** |

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| **EXAMPLE** | | | | | | **EXAMPLE** | | | | | **EXAMPLE** | | | | | |
| **FRL Example** | | | | | | | | | | | | | | | | |
| 21-09-2018 | 14:15 | | | | Recorder name | Game Counting | In-Flight | | | | System | Crash | High | | | |
| P4 Pro | ABC123XYZ | | | | Transit | Manual | VLOS | | | | Clear, calm | UAV Pilot name | UAS Tech name | | | |
| During the transit phase from the take-off point to the task location, the UAV lost control and impacted with terrain. The GCS briefly indicated loss of automatic flight control, indicating an Autopilot system failure. Subsequent investigation revealed an Autopilot system failure as the root cause of the accident. | | | | | | | | | | | | | | | | |
| Replaced faulty Autopilot unit. Checked for software state to make sure software and firmware versions are up to date. Sensitize aircrews to potential Autopilot failures with potential switching to Manual Flight mode (if time allows). Update task planning and site survey checklists to ensure no flight directly over third parties, if possible. | | | | | | | | | | | | | | | | |
| Resolved? | Y |  | N |  | 25-09-2018 | Sensitized? | Y |  | N |  | 26-09-2018 | Docs Updated? | Y |  | N |  |
| Acc Man name | Acc Man signature | | | | UAV Pilot name | UAV Pilot signature | N/A | | | | n/a | N/A | n/a | | | |
| **EXAMPLE** | | | | | | **EXAMPLE** | | | | | **EXAMPLE** | | | | | |

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| **Failure Recording Log** |

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| Failure Date | Failure Time | | | | Recorded By | Task Type | Task Phase: | | | | Failure Type: | UAV End State | Risk Level: | | | |
| UAS Model | UAS Serial No. | | | | Flight Phase: | Flight Mode: | LOS: | | | | MET Conditions | UAV Pilot | UAV Tech | | | |
| Failure Explanation | | | | | | | | | | | | | | | | |
| Proposed Resolution | | | | | | | | | | | | | | | | |
| Resolved? | Y |  | N |  | Resolved on: | Sensitized? | Y |  | N |  | Sensitized on: | Docs Updated? | Y |  | N |  |
| UAS Ops Man | sign | | | | UAV Pilot | sign | UAS Tech | | | | sign | Other | sign | | | |

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| *NOTES:*   * *Failure Date: the date the failure occurred or was observed* * *Failure Time: the approximate time the failure occurred or was observed* * *Recorded By: usually the person most directly involved with the failure* * *Task Type: the type of task being flown (if it was flight-related) – from your Scope of Operations* * *Task Phase: during which phase of flight the failure occurred (if it was flight related)* * *Failure Type: indicate if it was a structural, electrical (power), system (component), ground control system or electronic communications failure or something else* * *UAV End State: what the end state of the UAV was following the failure (if it was flight related)* * *Risk Level: an estimate of the resultant Risk Level* * *UAS Model and Serial no: appropriate data, particularly if the failure was UAS-related* * *Flight Phase: during which phase (part) of the flight the failure occurred (if it was flight related)* * *Flight Mode: the flight mode of the UAS at the time of the failure (if it was flight related)* * *LOS: the Line of Sight condition at the time of failure (if it was flight related)* * *MET Conditions: a summary of the weather conditions at the time of failure (particularly if it was flight related)* * *UAV Pilot and Tech: the names of the UAV pilot and technical involved with the flight/task at the time of failure* * *Failure Explanation: a brief explanation of what went wrong and what the end results were; it should include a brief explanation of the root cause* * *Proposed Resolution: the proposed “fix” to ensure the failure condition does not reappear* * *Resolved? : the date the “fix” was implemented and the problem was resolved* * *Sensitized? : the date all personnel were sensitized or trained regarding the solution* * *Docs Updated? : a check to ensure that all affected documentation has been updated with the solution* * *Names and signatures: of the UAS Accountable Manager, UAV Pilot and UAS Technician, plus anyone else pertinent to the resolution of the problem* * *Add additional “blank logging fields” as required by copying and pasting the blank template above into the appropriate position* |