

**EXECUTIVE SUMMARY – 465th UKFSC SIE MEETING – 5 DECEMBER 2023**

- 1. Increasing GNSS interference associated with Ukraine and Middle East conflicts had raised the risk of navigation errors and inadvertent overflight of conflict zones. (1.1)**
- 2. A321 air return after windows lost in flight, damage resulting from use of film lighting array. Use of aircraft for non-flying tasks needs to be carefully controlled. (2.1)**
- 3. Sickness absence policies adding to pressures on staff to operate when unfit. (2.3)**
- 4. Routes planned through active danger areas generating additional workload and impacts on other airspace users. (2.4)**
- 5. Drone Airprox in the Machynlleth valley low flying route. Warning signs installed at known drone operating hotspots. (2.5)**
- 6. Multiple GNSS jamming and spoofing events in ME and N Africa, particularly on approaches to Beirut; full EGPWS PULL UP alert at FL450 induced startle and surprise. Positional errors between 5-150 miles seen. (2.7)**
- 7. Airbus data showed shift in interference from jamming towards spoofing, plus significant increase in events and sophistication. Symptoms included loss of GPS PRIMARY, RNP, GLS/SLS, ADS-B Out and SATCOM. Incidents should be reported, and normal maintenance processes adhered to. (Full presentation appended.) (2.8)**
- 8. Abnormal event and delay scenarios a factor in attempts to open armed cabin doors; one inadvertent slide deployment. (2.11)**

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