



ISS | Extreme Weather Risk Assessment & Asset Resilience Report

Overview

ISS commissioned Litmus FM to undertake a comprehensive **Flood and Extreme Weather Risk Assessment** across the key sites of a global telecommunications and media organisation. The objective was to identify assets vulnerable to severe weather events, assess operational risks, and create clear visual information to support resilience planning and business continuity.

Challenge

Critical infrastructure assets are increasingly exposed to the impacts of extreme weather, including flooding, high winds, water ingress and storm-related damage. While traditional asset registers provide inventory information, they often lack the spatial and risk intelligence needed to understand how weather events could affect operational continuity.

Our client required a structured approach to identify weather-related risks, prioritise vulnerable assets, and provide facilities teams with a clear understanding of where intervention and mitigation measures should be focused.

Scope of Services

Litmus FM delivered a comprehensive weather resilience assessment programme that included:

- Site-wide flood and extreme weather risk assessments.
- Inspection and survey of externally located assets and infrastructure.
- Identification of assets vulnerable to flooding, wind loading and water ingress.
- Weather-related risk scoring and categorisation.
- Assessment of external doors and building thresholds.
- Review of drainage, hardstanding and permeable surface conditions.
- Identification of tree-related risks to buildings and infrastructure.
- Creation of detailed asset schedules recording risk exposure.
- Development of site-specific weather resilience reports.
- Production of new site drawings highlighting high-risk assets and locations.
- Mapping of plant, doors, drainage routes and vulnerable areas.
- Creation of interactive reporting through Power BI dashboards.
- Development of prioritised risk mitigation recommendations.

Scale of Delivery

- 3 sites surveyed
- 248 at risk assets captured
- Coverage: Critical Infrastructure Facilities - Telecommunications

Delivery Approach

The project provided ISS and their client with a clear understanding of weather-related vulnerabilities across their estate and established a practical framework for improving operational resilience.

Rather than simply identifying assets, the project enabled decision-makers to understand **which assets were at risk, why they were at risk, and what actions should be taken to reduce future exposure.**

Key Outcomes

- Comprehensive identification of weather-related risks across multiple sites.
- Creation of visual site plans highlighting high-risk assets and vulnerable locations.
- Asset-level risk assessments incorporating flood and wind exposure.
- Improved understanding of operational resilience and business continuity risks.
- Identification of water ingress points and flood-prone areas.
- Prioritised mitigation actions for plant, drainage, doors and external infrastructure.
- Improved visibility of critical assets that could impact services during severe weather events.
- Interactive reporting through Power BI for ongoing review and decision-making.
- Standardised methodology that can be replicated across additional sites.

Outcomes & Value

The assessment moved weather resilience from a reactive maintenance issue to a proactive asset management strategy.

By combining asset intelligence, environmental risk data and visual mapping, ISS and their client gained:

- Better preparedness for severe weather events.
- Improved capital planning for resilience improvements.
- Reduced risk of service disruption.
- Enhanced business continuity planning.
- Greater visibility of asset vulnerabilities.
- A clear evidence base for future investment decisions.
- A scalable framework for assessing resilience across the wider estate.

Value Statement

Litmus FM delivered a data-driven weather resilience programme that identified vulnerable assets, mapped operational risks and created clear visual intelligence to support proactive decision-making. The resulting assessment provides ISS and their client with a structured approach to protecting critical infrastructure, reducing operational risk and improving estate resilience against future extreme weather events.

Client Statement

●●● *Litmus FM delivered a comprehensive severe weather risk assessment programme that provided clear visibility of vulnerable assets and operational risks across our estate. The combination of asset-level risk assessments, visual site drawings and practical mitigation recommendations has strengthened our resilience planning and improved our ability to prioritise investment in critical infrastructure. The project was delivered professionally, efficiently and to a high standard throughout.* ●●●

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Project Manager



For more information about the services that LitmusFM provide, please get in touch:

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