QKD DoS Hardening Checklist (ABE/Phase-Noise Aware)

Deploy these controls to mitigate phase/LO/interferometer attacks that emulate ABE-style perturbations.

| Domain | Controls | |
|------------------------|--|----------------|
| Protocol | MDI/TF where feasible; strict parameter estimation; change-point detection; randomize | zed phase di |
| Clocks/Pilots | GPSDO/Rb references; dual-clock voting; multi-tone pilots; monitor Allan deviation; a | larm on pha |
| Optics/Interferometers | Thermo-acoustic enclosures; μ -metal where relevant; rigid mounts; fiber coils isolate | d from vibrati |
| Electronics | Star grounds; LC/RC filtering on modulator & detector bias; fiber control links to avoid | ground loop |
| Monitoring | Magnetometer & accelerometer sentries; spectral sentinels on pilots; canary interfero | meter; corre |
| IR/Incidents | Define thresholds; SIEM integration; retain environmental logs; playbooks for excess | -noise/QBEF |

Tip: Keep a dark, unused interferometer path as a canary. Any disturbance there implies environmental or deliberate phase injection.