Green River Valley Floodplain Continuity & 72-Hour Readiness Checklist

Pillar: Valley & Orbital Readiness | **Basis:** Batch 7 Valley & Floodplain Record | **Primary Source:** KCFCD / USACE (Howard A. Hanson Dam) | **As Of:** 2026-11-16

Space plants in Kent, Auburn, Renton, and Tukwila sit inside a documented floodplain where King County estimates $46M/day in disruption, Dec 2025 saw Desimone and White River breaches, and full Desimone levee repairs extend to 2031.

Readiness Checklist & Corpus Traceability

• **Run Annual October Continuity Audit:** Verify floodgates, sump pumps, and ITAR hardware staging every October per Annual Valley Continuity Audit.

• **Pre-Stage 72-Hour Flood Response:** Assign shift leads for sandbagging, tool-crib elevation, and evacuation triggers per 72-Hour Valley Flood Playbook.

• **Map Desimone & White River Exposure:** Track Kent/Tukwila/Auburn levee status through the 2031 repair horizon per Dec 2025 Desimone Levee Breach and Levee Repair Timeline 2026-2031.

• **Audit KCC 21A.24 Zero-Rise & BFE:** Verify base flood elevation before installing heavy test stands or substations per KCC 21A.24 Zero-Rise Siting and Utility Substation Continuity.

Green River Valley Continuity Readiness Matrix

Exposure / Asset	Readiness Action	Corpus Source
Desimone Levee (2031)	Monitor KCFCD repair milestones; stage floor kit	#2137 Levee 2026-2031
Hanson Dam (2009/2025)	Track USACE storage & flood-stage alerts	#2113 Hanson $7.8B
Kent / Auburn / Tukwila	Verify plant BFE & 72-hr ITAR custody plan	#2200 72-Hr Playbook
Substation Power	Confirm backup generator fuel & UPS runtime	#2134 Substation Power

Operator Execution & Boundary Notes

• Maintain the documented `2009` KCFCD `26-mile` valley sandbagging benchmark and `$46M/day` King County baseline in continuity business-case reviews (46M Daily Arithmetic).

• Coordinate Facilities: Waste, PSCAA & Floodplain with Prime Schedule Slip & Force Majeure notice clauses.

• Test ITAR/EAR physical custody procedures before any emergency off-site hardware relocation.

Corpus Source Pieces & Primary Authorities

• **Green River Floodplain Overview:** https://bcesg.org/wa-space-valley-green-river-floodplain-overview/

• **Dec 2025 Desimone Levee Breach:** https://bcesg.org/wa-space-valley-dec-2025-desimone-levee-breach/

• **Levee Repair Timeline 2026-2031:** https://bcesg.org/wa-space-valley-levee-repair-timeline-2026-2031/

• **72-Hour Valley Flood Playbook:** https://bcesg.org/wa-space-playbook-72-hour-valley-flood-levee-breach/

• **Annual Valley Continuity Audit:** https://bcesg.org/wa-space-playbook-annual-valley-corridor-continuity-audit/

• **King County Floodplain Rule (#1993):** https://bcesg.org/wa-space-rule-king-county-floodplain-levee-live/

• **WSDOT Puget Sound Gateway:** https://wsdot.wa.gov/construction-planning/major-projects/puget-sound-gateway-program

Provenance Note: Synthesized from BC ESG Batch 7 (#2104–#2221) and Batch 5 (#1993). Uses exact 2009 26-mile KCFCD and 2031 repair dates.