

DRAFT Utilities Emergency Response Overview

	Short-term (Hours to days)	Mid-term (Weeks to months)	Long-term (Years)
System Ops (In no particular order, depends on situation)	Increase hydro generation Increase limits on Kenai 115 kV line Golden Valley Electric Assoc. - Curtail energy sales - Purchase up to 70 MW Divert gas from LNG plant (<i>warm shutdown</i>) Reduce/eliminate spinning reserve (<i>Chugach arms SILOS</i>) ML&P/Chugach generation swap (<i>Joint decision</i>) ML&P converts to liquid fuel (<i>ML&P decision</i>) Emergency gas purchases (<i>Beyond contractual requirements</i>) Adjust generation mix based on deliverability BESS Seward on own generation Non-ENSTAR/APC system users of gas are interrupted Interruptible gas customers are curtailed 3rd Party Gas Marketers adjust deliveries Adjust gas flows to ML&P as needed Adjust gas delivery points based on deliverability	Divert gas from LNG plant (<i>warm shutdown</i>) Golden Valley Electric - Curtail energy sales - Purchases up to 70 MW Seward on own generation Sharing agreements Emergency rates (<i>would require tariff</i>) Portable generators (<i>i.e. lease from GE and use oil bladder</i>) ML&P to continue liquid fuel (<i>ML&P decision</i>) Evaluate spinning reserve	Southcentral Power Project Replacement generation ML&P Plant 1 & 2 More renewables - Wind, geothermal, hydro Gas storage - LNG, in-ground IGT – liquid fuel conversion Purchase power from GVEA Cook Inlet Resource Management Plan Intergrate Seward generation Additional BESS to reduce spinning reserve Long-term rate design changes Integrate gas transmission system
Voluntary Actions	Retail - Switches under Public/Gov't control - Meet with to determine actions - Switches under private control Commercial - Self-generation (<i>not with natural gas</i>) - Reduce exterior/lot lighting Residential - Action chart Utilities own facilities - Cut non-essential load at utility facilities Reduce non essential gas consumption - Retail & Commercial	Wholesale - Matanuska Electric - Homer Electric - Seward Electric Conservation/Efficiency - Smart Power - Education - Smart metering - Energy audits Disable selected street light circuits? Reduce essential gas consumption - Retail & Commercial	Wholesale - Matanuska Electric - Homer Electric - Seward Electric Conservation/Efficiency - Smart Power - Education - Smart metering - Audits Dispatchable alternative self-generation
Interruptions	Feeders prioritized - Shared responsibility among utilities - Fairness, sensitivity to critical loads, rotation - 20 to 30 minutes per outage Gas Curtailments of Commercial Accounts	Feeders prioritized - Shared responsibility among utilities - Fairness, sensitivity to critical loads, rotation - 20 to 30 minutes per outage Gas Curtailments of Commercial Accounts	Feeders prioritized - Shared responsibility among utilities - Fairness, sensitivity to critical loads, rotation - 20 to 30 minutes per outage Gas Curtailments of Commercial Accounts