



2018 November Alaska Cook Inlet Earthquake

Lessons Learned





8:29 a.m. November 30th





Mitigation (Building Codes) Works

Date	Location	Magnitude	Deaths
10-29-08	Pakistan	6.4	215
4-06-09	Italy	6.3	308
1-12-10	Haiti	7.0	100,000+
4-14-10	China	6.9	2,698
2-22-11	New Zealand	6.3	185
8-11-12	Iran	6.3	300
2-20-13	China	6.6	193
8-3-14	China	6.1	617
8-24-16	Italy	6.0	298
8-5-18	Indonesia	6.9	513
11-30-18	Alaska	7.1	0



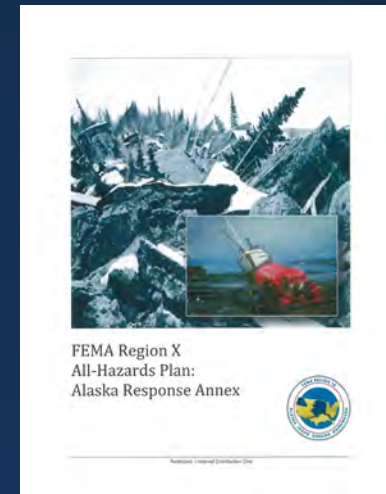
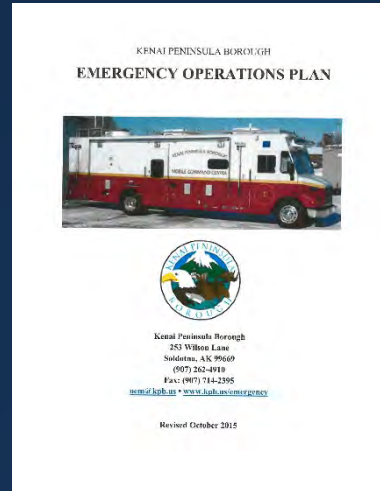
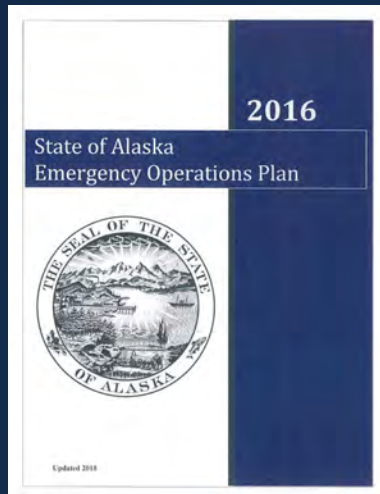


Planning Works!

All – Hazard Plans

VS.

Scenario-specific Plans



Training, Exercise, and Outreach



THE GREAT SHAKE OUT 2016

OCT 20 @ 10:20 AM

JOIN US FOR THE WORLD'S LARGEST EARTHQUAKE DRILL

DROP!

COVER!

HOLD ON!

Register at Shakeout.org/Alaska

#AKSHAKE





The Result.....

www.ktva.com/clip/14705873/70-earthquake-caught-on-camera-by-anchorage-teacher





Seismic Mitigation Dollars at work



Kodiak Island Borough School
District Seismic Roof Bracing
Improvements 2011



Ben Boeke Ice Arena
Anchorage Wall/Roof Seismic
Reinforcements 2009





The Results....

- No Loss of Life
- No Major Injuries
- Most Schools Reopened within 10 days...
- Three schools closed for two academic years
- Over 100 School buildings report damage





Finance and Admin Preparedness

- IDIQ Contracts - immediate hire of contractors for response
- Training for Contracting Staff (preparation based on IDIQ contract)
- Funded Disaster Relief Fund
- Monthly SEOC training prepared
Finance/Admin staff in Department





Partnerships are Paramount

- State/Local, State Agencies, Partners and Contractors
- Alaska Partnership for Infrastructure Protection
- Volunteer Organizations Active in Disasters
- Playing in the Sandbox
- Relationships form the Foundation



Alaska DOT&PF Rapid Response

- Not Road Construction Season
- AKDOT&PF Contractors Rapidly Mobilized
- Private Sector Asphalt Plant Fired up the day of the quake



Schools

- Anchorage School District: \$22.39 million for repairs so far
- Mat-Su Schools: at least 50 reports of structural damage





Response Coordination Key

- Local jurisdictions and agencies responded well, and informed the State
- FEMA was here fast
- FEMA and State of Alaska – best partnership in the Nation
- State and Local Emergency Operations Centers had the right liaisons at the right time
- Coordinated planning, training, and exercising with partners works!





Disaster Assistance...Works?

- State Individual Assistance
- 13,845 Applicants (Dec. 3-Feb. 28)
- \$969,396
- Not well-automated
- Limited full-time staff
- Slow to pay
- State-FEMA-SBA-State
- Federal Individual Assistance
- 8,899 Applicants (Feb. 1-now. May 31 deadline)
- \$11,051,557
- Automated (sometimes bad)
- Fast to pay
- Safe/Sanitary/Functional
- SBA - \$57,264,900 for 1,345 Loans





Disaster Assistance Works

- Public (Infrastructure) Assistance
- December estimate ~\$48m (based on the worst we could find at the time)
- 67 Applicants (gov't, schools, road)
- 38 Private Non-Profits
- Public Assistance = repair or rebuild to how it was
- Public Assistance + Mitigation – Rebuild with Resilience
- Fine print:
 - Reimbursable program
 - Slow....



“Flexibility”

- Initially, FEMA pays for foundation damage (they don't inspect foundations) based on line items with fixed prices.
- Out of 67 cases, an average of \$3,219
- Survivors, Local + State Officials, Congressional Delegation Request FEMA change their ways.
- FEMA policy change for this disaster pays foundation damage actuals based on private contractor estimates.
- Those 67 cases have received a new average of \$20,723 for foundations





Earthquake Insurance

- High Premiums
- Higher Deductible
- FEMA doesn't provide funding for deductibles
- The State and SBA does
- NO duplication of benefits.
- Insurance, FEMA grants, SBA loans, State grants cannot pay for the same damage





2018 Cook Inlet Earthquake

- Largest home and infrastructure disaster since 1964
- Combined State and federal assistance will likely exceed \$250 m
- Mitigation, Building Codes, Individual and Family Preparedness works
- Nobody died
- Nobody was severely injured
- Things looked “too good” within a week
- The damage is bad throughout southcentral
- A little longer, a little stronger – a different story





Where to Find Help

- State IA (2/28) ready.alaska.gov/earthquake
 - 855.445.7131
- FEMA IA (5/31) disasterassistance.gov
 - 800.621.3362
- SBA Loans (5/31) disasterloan.sba.gov
 - 800.659.2955





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