



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



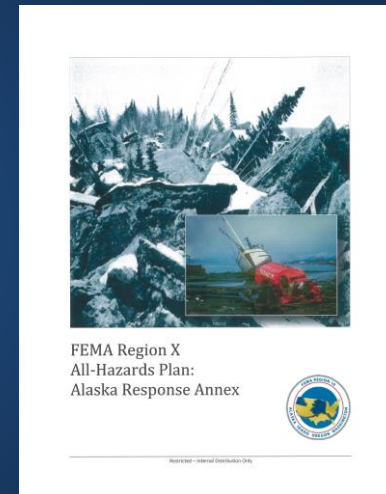
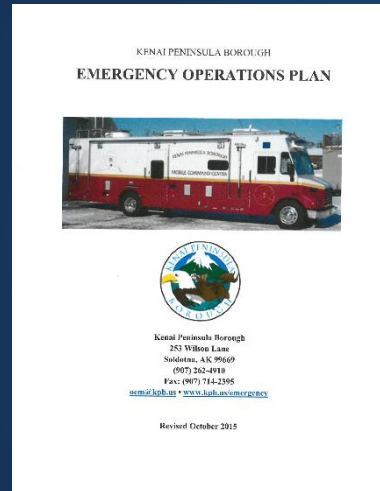
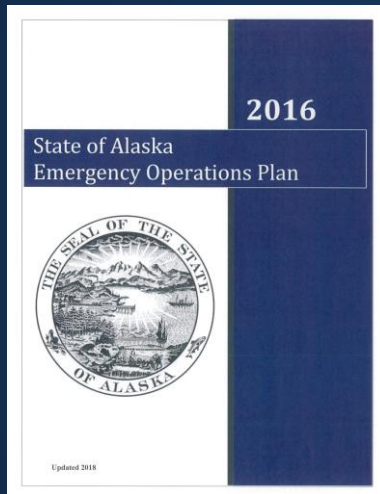


Planning Works!

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





Sharpening the Saw

- Continuity of Operations Drills
- Tsunami Calldown Drills
- Monthly SEOC Training
- Partnerships in Practice





Lifeline Status



A lifeline enables the continuous operation of **government functions and critical business**, and is **essential to human health and safety or economic security**.

Ease of Communication

Status	"What?"
Impact	"So What?"
Actions	"Now What?"
Limiting Factors	"Without What?"





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

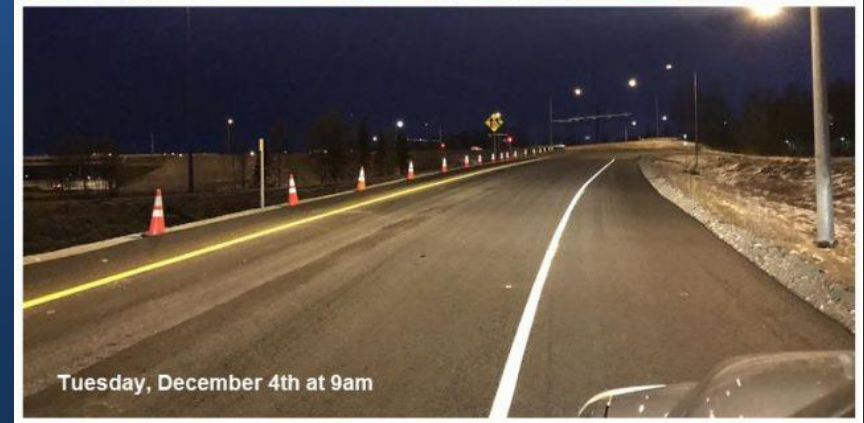
- State/Local, State Agencies, Partners and Contractors
- Alaska Partnership for Infrastructure Protection
- Volunteer Organizations Active in Disasters
- Playing in the Sandbox
- Relationships form the Foundation





Alaska DOT&PF Rapid Response

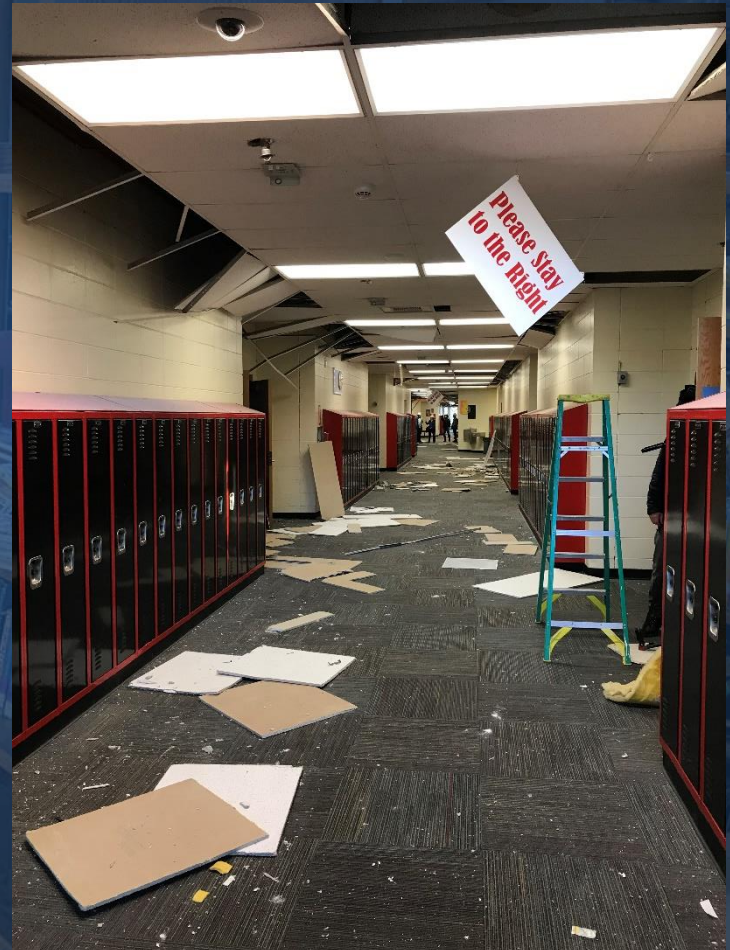
- Not Road Construction Season
- AKDOT&PF Contractors Rapidly Mobilized
- Private Sector Asphalt Plant Fired up the day of the quake





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)
- \$1,509,437
- Not well-automated
- Limited full-time staff
- Slow to pay
- State-FEMA-SBA-State
- Federal Individual Assistance
- 9,548 Applicants (Feb. 1-now. May 31 deadline)
- \$14,180,373
- Automated (sometimes bad)
- Fast to pay
- Safe/Sanitary/Functional
- SBA - \$64,254,900 for 1,536 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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State Coordinating Officer

2018 November Cook Inlet Earthquake

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2019 Spring Preparedness Conference