



 Association of Bay Area Governments

ABAG PLAN CORPORATION
101 Eighth Street
Oakland, CA 94607-4707

MEMO

Date: October 26, 2015

To: Risk Management Committee

From: Jim Hill – PLAN Risk Management Officer

Re: Severe Weather Conditions; PLAN Resource Guide

Action Required

This report is for information only. No action required.

Overview

Beginning in 2009, ABAG developed an update to the regional hazard mitigation plan which complied with the requirements of the Disaster Mitigation Act (DMA) of 2000. The plan was designed to address all natural hazards impacting the Bay Area. The PLAN was approved by FEMA in March 2011 and adopted by ABAG's board. The plan is valid for five years from the approval date.

As part of this project, ABAG invited Bay Area cities, counties and special districts to join in the planning process and develop annexes to the plan that would be approvable by FEMA. Local governments with an approved mitigation plan are eligible for several federal mitigation grants and, if the plan is integrated into the safety element of their general plan, the required local match (6.25%) for FEMA post-disaster financial assistance is waived.

ABAG's Resilience Program team (formerly EQ and Hazards Program) worked with PLAN members assisting in the development of their hazard mitigation plans. ABAG staff provided board members with planning information and toolkits to facilitate the process at our annual board meeting(s). Attached is an updated status report on hazard mitigation plan development for all PLAN members. Some member plans were annexed to their county plan. Many of the plans require updating and approval in 2016. Expiration dates are noted in the report.

The Resilience team has expanded its work and as part of their existing planning efforts have engaged with local jurisdictions and communities to plan and coordinate efforts and resources when a natural or man-made disaster impacts a community. They have conducted a series of workshops on Hazard Mitigation and Climate Adaptation Planning creating a clear roadmap to resiliency planning.

PLAN members and associated staff were invited to attend the three workshops held earlier this year in various locations. A matrix containing the status of all local hazard mitigation plans, as well as, overall participation in the resilience planning workshops is attached for your review.

An exhibit containing the roadmap used during the strategic planning sessions is also attached for your review.

Risk Management

There are several challenges faced by each member agency during and after a catastrophe. PLAN's risk management goals in this area are threefold. First; each member city/town must recognize the hazards they are exposed to and the associated outcomes. Second; members must prepare for each event to facilitate and maximize all eligible post disaster recoveries. And most important, we must adequately and "equally" protect the interests of our community constituents.

Our goal is to ensure all PLAN members recognize the essential framework of the planning process. The primary steps in the planning process are:

- Establish a team and project manager
- Identify and assess all hazards associated with the jurisdiction (local/regional)
- Develop hazard mitigation and adaptation goals/strategies
- Adopt and implement the plan

In addition, after the proclamation of an emergency, the cost recovery process begins. The primary recovery planning recommendations for PLAN cities are:

- Train a local recovery team
- Retain a cost recovery consultant
- Adopt a recovery ordinance

PLAN members should consult with ABAG Resilience team members for more information on planning for natural or man-made disasters. The Resilience team is also available to assist in providing support and guidance in the planning aspects to ensure member plans are renewed in a timely manner.

Summary

There are definite indications of severe weather patterns in the Bay Area (winter storms). The "El Nino" effect is no longer a prediction and has become a reality according to the scientific community. PLAN staff recently attended an "El Nino" presentation for ABAG by Stanford scholars. In addition, there are heightened concerns given California's continued drought pattern. Both of these factors will contribute to increased risk/exposure for our member agencies.

Members will be faced with increased exposure to claims arising from flood conditions and storm water management issues, tree claims resulting from high winds and heavy exposure to land movement (subsidence and mudslides). Severe weather patterns may also displace members of our local communities and can significantly disrupt commercial activity. These consequences have a direct impact on city/town resources and can impact fiscal revenue cycles.

PLAN staff is working closely with the Resilience team and PLAN loss control consultants on developing severe weather condition resource guides for our member agencies. PLAN consultants are developing custom tailored disaster (El Nino/Flood) information booklets for PLAN member community outreach.

PLAN member resource guides will include:

1. ABAG Resilience Program Planning Guide
2. FEMA Resource Guides (including weblink)
 - Local Mitigation Planning Handbook
 - Plan Integration; Linking Local Regional Planning Efforts
 - Hazard Mitigation Assistance Guidance
3. Linkage to ABAG Resilience team website and resources

Community preparedness booklets will be designed to include:

1. Flood preparedness resources listing
2. National Weather Service information
3. Flood insurance general information
4. Red Cross resource guide
5. FEMA flood insurance maps (by jurisdiction)
6. Public Works, Police, Fire & Safety information
7. Sand bag information

8. How to prepare for storms/flood guidance
9. Flood restoration contractors
10. Flyer – San Mateo County sample

The RMC committee will review and discuss what information or resources should be included in the member resource guide. Committee will also assess member (and PLAN) cost implications associated with the development of the community preparedness booklets which are to be custom tailored for each member jurisdiction.

Attachments:

1. Local Hazard Mitigation Planning Status Report
2. Bay Area Local Jurisdiction Status, Expiration and Workshop attendance matrix
3. Hazard Mitigation & Climate Adaptation Planning: Meeting Roadmap
4. Sample Mitigation and Adaptation Strategy Development Worksheet
5. "El Nino" Preparedness Guide for Homeowners & Residents (brochure)
6. Winter Storm Warning – Public Announcement San Mateo County

Local Hazard Planning Status Report

PLAN Member Name	Plan Title	Plan Status	Plan Type	APA Date	Plan Approval Date	Expiration Date	Jurisdiction Type	County Name
American Canyon	Napa County Operational Area Hazard Mitigation Plan Update - American Canyon city	Approved	Multi-Jurisdiction	1/29/2014	6/20/2014	6/20/2019	City	Napa County
Atherton	ABAG Multi Jurisdictional Multi Hazard Plan - Atherton town	Approved	Multi-Jurisdiction	5/4/2011	3/24/2011	3/25/2016	Town	San Mateo County
Benicia	ABAG Multi Jurisdictional Multi Hazard Plan - Benicia city	Approved	Multi-Jurisdiction	6/8/2012	3/24/2011	3/24/2016	City	Solano County
Burlingame	ABAG Multi Jurisdictional Multi Hazard Plan - Burlingame city	Approved	Multi-Jurisdiction	3/31/2011	3/24/2011	3/25/2016	City	San Mateo County
Campbell	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Campbell city	Approved	Single Jurisdiction	8/8/2012	6/25/2012	6/26/2017	City	Santa Clara County
Colma	ABAG Multi Jurisdictional Multi Hazard Plan - Colma town	Approvable Pending Adoption	Multi-Jurisdiction	6/18/2012			City	San Mateo County
Cupertino	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Cupertino city	Approvable Pending Adoption	Single Jurisdiction				City	Santa Clara County
Dublin	ABAG Multi Jurisdictional Multi Hazard Plan - Dublin city	Approved	Multi-Jurisdiction		3/24/2011	3/24/2016	City	Alameda County
East Palo Alto	ABAG Multi Jurisdictional Multi Hazard Plan - East Palo Alto, city	Approved	Multi-Jurisdiction		3/24/2011	3/24/2016	City	San Mateo County
Foster City	ABAG Multi Jurisdictional Multi Hazard Plan - Foster City	Approved	Multi-Jurisdiction	4/26/2012	3/24/2011	3/24/2016	City	San Mateo County
Gilroy	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Gilroy city	Approved	Single Jurisdiction		6/25/2012	6/26/2017	City	Santa Clara County
Half Moon Bay	ABAG Multi Jurisdictional Multi Hazard Plan - Half Moon Bay, city	Approved	Multi-Jurisdiction	4/25/2011	3/24/2011	3/25/2016	City	San Mateo County
Hillsborough	ABAG Multi Jurisdictional Multi Hazard Plan - Hillsborough town	Approved	Multi-Jurisdiction	4/25/2011	3/24/2011	3/25/2016	Town	San Mateo County
Los Altos Hills	Town of Los Altos Hills Hazard Mitigation Plan - Los Altos Hills town	Approved	Single Jurisdiction		9/9/2014	9/9/2019	Town	Santa Clara County
Los Gatos	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Los Gatos, town	Approved	Multi-Jurisdiction		6/25/2012	6/26/2017	Town	Santa Clara County
Millbrae	ABAG Multi Jurisdictional Multi Hazard Plan - Millbrae city	Approved	Multi-Jurisdiction		3/24/2011	3/25/2016	City	San Mateo County
Morgan Hill	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Morgan Hill city	Approved	Single Jurisdiction		6/25/2012	6/26/2017	City	Santa Clara County
Pacifica	ABAG Multi Jurisdictional Multi Hazard Plan - Pacifica city	Approved	Multi-Jurisdiction		3/24/2011	3/24/2016	City	San Mateo County
Portola Valley	ABAG Multi Jurisdictional Multi Hazard Plan - Portola Valley town	Approved	Multi-Jurisdiction	4/25/2011	3/24/2011	3/25/2016	Town	San Mateo County
Ross	Ross town - Ross town	Approved	Single Jurisdiction		6/25/2012	6/24/2017	City	Marin County
San Bruno	ABAG Multi Jurisdictional Multi Hazard Plan - San Bruno city	Awaiting Revisions	Multi-Jurisdiction				City	San Mateo County
Saratoga	Santa Clara County Multi Jurisdictional Multi Hazard Plan - Saratoga city	Approved	Single Jurisdiction		6/25/2012	6/26/2017	City	Santa Clara County
South San Francisco	ABAG Multi Jurisdictional Multi Hazard Plan - South San Francisco city	Approvable Pending Adoption	Multi-Jurisdiction	6/8/2012			City	San Mateo County
Tiburon	ABAG Multi Jurisdictional Multi Hazard Plan - Tiburon town	Approved	Multi-Jurisdiction		3/24/2011	3/25/2016	Town	Marin County
Woodside	ABAG Multi Jurisdictional Multi Hazard Plan - Woodside town	Approvable Pending Adoption	Multi-Jurisdiction	3/31/2011			Town	San Mateo County

PLAN MEMBERS NOT ON LIST

Milpitas
Newark
San Carlos
Suisun City

Hazard Mitigation & Climate Adaptation Planning: Meeting Roadmap



Example Mitigation and Adaptation Strategies

Example Strategy #1: Berkeley Hazard Mitigation Plan

STRATEGY DEVELOPMENT INFORMATION							
Strategy Name*	Complete the ongoing program to retrofit all remaining non-complying Unreinforced Masonry (URM) buildings.						
Problem Statement†	The City of Berkeley has had a mandatory URM retrofit ordinance in place since 1990. 85% of URMs have been retrofitted but a few remain. URMs pose a significant hazard in a major earthquake that can lead to loss of life and the closure of local businesses.						
Hazard(s) Addressed	Earthquake Ground Shaking	Earthquake Liquefaction	Current Flooding	Future Flooding	Wildfire	Landslide	Other Hazards
Strategy Type	Evaluation	Program/ Operation		Policy Development	Coordination	Education/ Outreach	
Process/ Implementation Mechanism	Long-Range Planning	Land Use Planning	Capital Planning	Operations	Emergency & Hazards Planning	Project Planning & Design	New Initiatives
Responsible Agency*	Planning and Building Department						
Partners*	Community groups or chambers of commerce						

Example Strategy #2: ABAG/BCDC Stronger Housing, Safer Communities

STRATEGY DEVELOPMENT INFORMATION							
Strategy Name*	Reduce flood risk through integrated watershed management						
Problem Statement†	The City of East Palo Alto experiences coastal flooding during extreme storms. One-quarter of the city and many single-family homes, are within the coastal watershed that experiences flooding now. These storms are anticipated to increase in the future causing more frequent and extensive flooding.						
Hazard(s) Addressed	Earthquake Ground Shaking	Earthquake Liquefaction	Current Flooding	Future Flooding	Wildfire	Landslide	Other Hazards
Strategy Type	Evaluation	Program/ Operation		Policy Development	Coordination	Education/ Outreach	
Process/ Implementation Mechanism	Long-Range Planning	Land Use Planning	Capital Planning	Operations	Emergency & Hazards Planning	Project Planning & Design	New Initiatives
Responsible Agency*	Planning and Building Department						
Partners*	FEMA, developers						



Example Strategy #3: BCDC Adapting to Rising Tides Alameda County Project

STRATEGY DEVELOPMENT INFORMATION							
Strategy Name*	Conduct vulnerability assessments of critical infrastructure and land uses in areas exposed to sea level rise and liquefaction to identify strategies that can improve resilience to both hazards						
Problem Statement*	The City of Oakland is located along the shoreline and has critical infrastructure that is located in areas vulnerable to liquefaction and possible future sea level rise. There is not much information available on the susceptibility of this infrastructure.						
Hazard(s) Addressed	Earthquake Ground Shaking	Earthquake Liquefaction	Current Flooding	Future Flooding	Wildfire	Landslide	Other Hazards
Strategy Type	Evaluation		Program/ Operation	Policy Development	Coordination		Education/ Outreach
Process/ Implementation Mechanism	Long-Range Planning	Land Use Planning	Capital Planning	Operations	Emergency & Hazards Planning	Project Planning & Design	New Initiatives
Responsible Agency*	Planning and Building Department						
Partners*	ABAG, Caltrans, MTC, BCDC, Special Districts, neighboring jurisdictions, County, private sector						

* Indicates overlap with FEMA Worksheet 6.2, Mitigation Action Implementation Worksheet



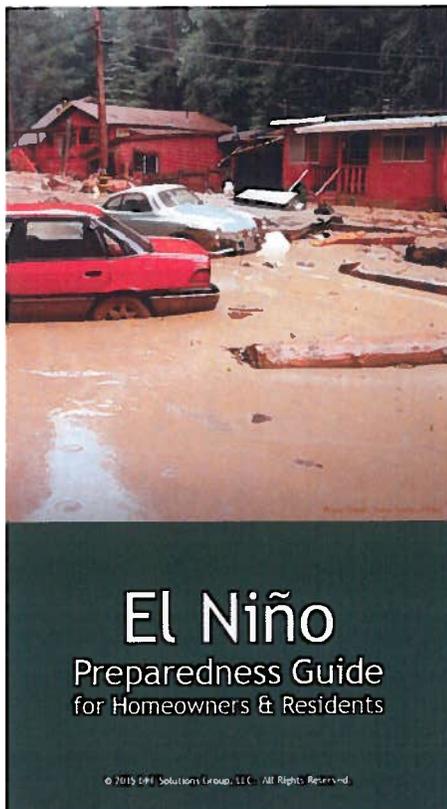
Are your customers Ready for El Niño?

Make sure the homeowners and residents in your service area are ready for El Niño, which is currently on track to bring heavy rains to much of California.

Why settle for a generic pamphlet when you can have a **customized** booklet with risk management and emergency response information your customers need such as:

- Police, Fire, and Public Works contact information
- Resources and assistance available from your city
- What to do if your property is flooded
- Recommended restoration/remediation contractors
- Where to get sandbags and other emergency preparation items

Booklet
Specifications:
6" x 10.5"
Full color
Saddle stitch (staples)
100lb premium paper
Gloss coating



The booklet also covers key information customers need before, during and after the storms, including:

- How to prepare for storms and flooding
- Assessing flood risk
- Flood insurance
- Preparing a family emergency action plan
- Property protection
- Staying informed
- Preparing for evacuation
- Emergency supply kit
- Health and sanitation
- What to do when trapped by flood waters
- How to contact emergency resources (Red Cross, FEMA, etc.)

Email DKF Solutions Group for a quote:
elninoprep@dkfsolutions.com

Are You Prepared for the Winter Storm Season?

The National Oceanic and Atmospheric Administration (NOAA) is expecting a very wet winter with possible flooding. We know that choosing to live in areas with a history of weather-related issues and relative isolation from main population centers means we must be prepared to be on our own for up to several days. **Are you ready?**

- Go to www.smcalert.info and sign up to receive alerts on your cell phone and email. You will be notified quickly of tsunamis, floods, fires, road closures, mountain lion sightings, planned events with traffic disruptions, etc.
- Tune your portable and car radios to KHMB 1710 AM or KHMV 100.9 FM for emergency broadcasts from Montara to Tunitas Creek Road. For Pescadero, tune to 1680 AM. Assign a preset button for these stations. Get a NOAA weather radio (about \$30,) set it to KHB49 162.40 Mhz and have extra batteries.
- When roads are closed due to flooding, trees down or mudslides, you may need to leave your area by a different route than you are accustomed to. Learn these routes now, before you need them. Make arrangements to temporarily stay with family or friends should you need to evacuate your home.
- Always maintain at least a half a tank of gas in your vehicles.
- Maintain emergency supplies at home (*see back*)
- Maintain a "Go-Bag" near exit door or in your car (*see back*)



Homeowner Recommendations

- Fix leaks in ceilings/roofs or replace roof
- Seal foundation cracks with mortar or masonry caulking
- Clean gutters and drains
- Invest in a battery-powered sump pump
- Move expensive items to safer location
- Elevate furnaces/heaters 12in above highest known flood level
- Anchor fuel tanks so they won't float away
- Install French drains if you live on a slope
- Stock up on sandbags
- Take pictures of insurance policies for storage on cell phone

Emergency Supplies at Home

- One gallon of water per person per day for up to 72 hours
- Enough food (not requiring refrigeration) for up to 72 hours
- Plenty of battery or crank-powered flashlights/lanterns
- Portable radio, battery and/or crank powered
- Extra batteries for lights and radios
- An exit plan so your family knows where to meet if separated
- Provisions/plans for feeding/evacuating pets & large animals
- Camping gear/tents (for backyard if house is uninhabitable)
- First Aid kit
- Trash bags to line toilet for waste disposal if sewer/water out

"Go-Bag" Near Exit Door or in Car

- Water
- Food bars/nuts/snacks
- Prescription medications in sealable plastic bags
- Extra eyeglasses
- Cash
- Copies of important papers in sealable plastic bags
- Matches or lighter in sealable plastic bags
- Flashlights with extra batteries
- Extra undergarments and socks in sealable plastic bags
- Sweater or sweatshirt
- Space blanket
- Hat
- Playing cards
- Writing pad and pencils
- Towel
- Rain poncho
- Gloves
- Pet leashes/food/meds
- Portable radio with extra batteries
- First Aid kit
- 50' parachute cord
- Multi-tool

Sandbags

HMB City Distribution Location

- ⇒ Historic Train Depot below Johnston House
110 Higgins Canyon Rd., Half Moon Bay

Unincorporated County Distribution Locations

- ⇒ Princeton Corporation Yard, 203 Cornell Ave.
- ⇒ Pescadero High School, 350 Butano Cut-Off Rd.
- ⇒ La Honda Corporation Yard, 59 Entrada Way

Resources

For more information on how to prepare for winter storm emergencies:

- <http://myhazards.calema.ca.gov>
- www.redcross.org
- <http://smcready.org>
- <https://alerts.weather.gov/cap/ca.php?x=3>
- <http://www.fema.gov/plan-prepare>
- www.hmbchamber.com/ceap
- www.smcalert.info
- <http://www.fema.gov/view-your-community-preliminary-flood-hazard-data-0>
- Large Animal Evac information:
sharonmontoyabretz@gmail.com

Get Involved

If you are interested in joining the Coastside Emergency Corps volunteers, or want to learn more about CERT training, ham radio licensing, Red Cross Shelter Operations, or any other emergency preparedness programs on the Coastside, contact:

Nick Gottuso, Coastside Coordinator
San Mateo County Sheriff's
Office of Emergency Services

ngottuso@smcgov.org
650-726-4069

CEAP
COASTSIDE EMERGENCY ACTION PROGRAM