

SECTION IV-A MULTI-HAZARD STRATEGIES

TABLE OF CONTENTS

I.	MISSION.....	3
	A. GOALS.....	3
	B. MITIGATION STRATEGIES OR ACTION ITEMS	4
II.	MITIGATION PLAN GOALS.....	4
	A. PROTECT LIFE AND PROPERTY	4
	B. PUBLIC AWARENESS & EDUCATION	4
	C. NATURAL SYSTEMS.....	5
	D. PARTNERSHIPS AND IMPLEMENTATION.....	5
	E. EMERGENCY SERVICES.....	5
III.	PLAN ACTION ITEMS	6
IV.	MULTI-HAZARD ACTION ITEMS.....	7
	A. MULTI-HAZARD ACTIVITIES	8
	MULTI-HAZARD ACTIVITY #1	8
	MULTI-HAZARD ACTIVITY #2	9
	MULTI-HAZARD ACTIVITY #3	10
	MULTI-HAZARD ACTIVITY #4	11
	MULTI-HAZARD ACTIVITY #5	12
	MULTI-HAZARD ACTIVITY #6	13
	MULTI HAZARD ACTIVITY #7.....	14
	MULTI-HAZARD ACTIVITY #8	15
	MULTI HAZARD ACTIVITY #9.....	16

SECTION IV-A

Multi-Hazard Goals and Action Items

This section provides information on the process used to develop goals and action items that pertain to the five natural hazards addressed in the Mitigation Plan. It also describes the framework that focuses the plan on developing successful mitigation strategies. The framework is made up of three parts: the Mission, the Goals, and the Action Items or strategies. The last section of the plan includes the multi-hazard Action Items. Some action items can be used for more than one hazard and they are called Multi-Hazard Action Items.

I. MISSION

The mission of RSCCD Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, facilities, infrastructure, the district's property, and the environment from natural hazards. This can be achieved by increasing public awareness, documenting the resources for risk reduction and loss-prevention, and identifying activities to guide the District toward building a safer, more sustainable community.

A. Goals

The Plan goals describe the overall direction that RSCCD agencies, organizations, and citizens can take to minimize the impacts of natural hazards. The goals are stepping-stones between the broad direction of the mission statement and the specific recommendations that are outlined in the action items.

The District will set both short term and long term goals to mitigate natural hazards.

Hazard Mitigation Plans must be updated every five years in order to maintain the district's eligibility for FEMA grants. At each 5-year plan update, the District plans to move to a higher level of understanding of the hazards, its vulnerability, and its assets that are at risk.

One of this first plan's primary goals is to educate the RSCCD Hazard Mitigation Team on: (1) what Hazard Mitigation is, 2) why it's important and (3) how to integrate it into facility planning, and (4) identifying funding opportunities to fund projects.

As technology becomes more available and less costly, each plan will move to a higher level of technical analysis. As GIS becomes more and more sophisticated, the plans mapping capability will improve. The district will document all actions taken during the 5-year interval between plans and newer plans will include updated information. This Hazard Mitigation Plan is like a blueprint for the district to mitigate and prevent the impact of major disasters on district facilities and therefore preventing deaths and injuries to its employees, students and guests. As time passes, the plan will be updated, refined and improved.

B. Mitigation Strategies or Action Items

The Mitigation Strategies or Action Items are a listing of activities in which District agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the time line for implementation. Short-term action items are activities that the District may implement with existing resources and authorities within one to two years. Long-term action items may require new or additional resources or authorities, and may take between one and five years (or more) to implement.

II. MITIGATION PLAN GOALS

The planning goals helped to guide the direction of future activities aimed at reducing risk and preventing loss from natural hazards. The goals listed here serve as checkpoints as RSCCD continues to implement mitigation action items.

A. Protect Life and Property

Implement short term and long term activities that assist in protecting lives and reducing property damage by making the district's facilities and especially critical facilities more resistant to natural hazards.

Reduce losses and repetitive damages for chronic hazard events while promoting insurance coverage for catastrophic hazards.

Improve hazard assessment information to help make recommendations for discouraging new development and encouraging preventative measures for existing development in areas vulnerable to natural hazards.

B. Public Awareness & Education

Improve education and outreach programs to increase public awareness of the risks associated with natural hazards and how to mitigate these hazards.

Provide information on tools, partnership opportunities, and funding resources to assist in implementing mitigation activities.

Once educational programs are developed, they should be used on an ongoing basis.

It is important to note that the committee wanted the information contained in the hazard sections to not only support hazard mitigation but be done in a way that was educational to both employees and the public. The hazard sections contain more information than is required but this has been done for committee, employee and student educational purposes. This education is invaluable to the employees who will respond to emergencies and to the students who will use the information to help them prepare themselves for emergencies.

C. Natural Systems

Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property, and the environment.

Preserve, rehabilitate, and enhance natural systems to serve natural hazard mitigation functions.

D. Partnerships and Implementation

Strengthen communication and coordinate participation among and within public agencies, citizens, non-profit organizations, business, and industry to gain a vested interest in implementation.

Encourage leadership within public and private sector organizations to prioritize and implement local hazard mitigation activities.

Form financial partnerships that benefit all parties.

E. Emergency Services

Establish policy to ensure mitigation projects for critical facilities, services, and infrastructure.

Strengthen emergency operations by increasing collaboration and coordination among public agencies, non-profit organizations, business, and industry.

Coordinate and integrate natural hazard mitigation activities, where appropriate, with emergency operations plans and procedures.

Ensure technology is in place to meet emergency communications during a disaster to facilitate: (a) mandatory damage reporting requirements; (b) life-saving resource requests and (c) coordination for recovery operations to get the district back up and operating.

III. PLAN ACTION ITEMS

The Mitigation Plan identifies action items or mitigation strategies developed through data collection and research, and the public participation process. Hazard Mitigation Plan activities may be considered for funding through Federal and State grant programs, and when other funds are made available through the District. Many short-term action items can be funded through the general fund budget but larger projects and long-term action items may need additional state and federal government dollars to complete the projects. Action items address multi-hazard and hazard specific issues. To help ensure activity implementation, each action item includes information on the time line and coordinating organizations. Upon implementation, the coordinating organizations may look to partner organizations for resources and technical assistance.

A description of the partner organizations is provided in Appendix A, the resource directory of this Plan. Many technical websites and documents were consulted and interviews were conducted within the District, the community, and the general public.

A. Coordinating Organization

The coordinating organization is the organization that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring, and evaluation. Coordinating organizations usually include district personnel responsible for implementing activities and programs.

B. Ideas for Implementation

Each action item includes ideas for implementation and potential resources, which may include grant programs or human resources.

C. Time Line

Action items include both short and long-term activities. Each action item includes an estimate of the time line for implementation. Short-term action items are activities that District agencies may implement with existing resources and authorities within one to two years. Short-term action items often are funded through the general fund. Long-term action items may require new or additional resources or authorities, and may take between one and five years (or more) to implement.

D. Constraints

Constraints may apply to some of the action items. These constraints may be a lack of District staff, lack of expertise, lack of funds, or vested property rights. The recent and long recession slowed the progress of many local Hazard Mitigation Plans. Many of the projects were not funded due to the recession. Now that the recession has ended, the District must take advantage of the improving economy.

E. Funding Sources

The Hazard Mitigation Committee determined how best each mitigation action item would be funded. If it can be done during day-to-day business or as a yearly special project, it will be funded by General Fund budget. If not, then the District employees decided if the item could be funded under a State program, a FEMA Hazard Mitigation Grant, categorical funding or other source of funding.

F. Cost Estimate

The District included a basic cost estimate to each of its action items. This was done mostly by the District Facilities Managers and Construction Director who used their experience and judgment.

G. Benefits - Losses Avoided

The planning team considered the benefits of each action item that would result from a mitigation action versus the cost. The District did not do a benefit-cost analysis, simply a planning level assessment of whether the costs are reasonable compared to the probable benefits. The committee found this process extremely valuable.

H. Priority

The final prioritization included the committee ranking each action item by priority (low, medium, high) using the FEMA Worksheet 6.1, Mitigation Action Evaluation Worksheet. (**STAPLE/E system**). The system review includes:

IV. MULTI-HAZARD ACTION ITEMS

Multi-hazard action items are activities that pertain to two or more of the five hazards in the Mitigation Plan: earthquake, flood/storm, fire, dam failure, and windstorm/severe weather. Action items were selected by the Hazards Mitigation Tea, as they were deemed the most feasible after consideration of a range of factors such as costs, benefits, expected degree of public support, local capabilities, and potential environmental impacts.

A. Multi-Hazard Activities

Hazard	MULTI-HAZARD ACTIVITY #1
Action item	Identify and pursue funding opportunities to develop and implement mitigation activities. Complete a cost benefit analysis on all “high” priority projects.
Coordinating Organization	Assistant Vice Chancellor of Administrative Services
Ideas for Implementation	<p>Make a list of the projects that need funding and a list of the funding opportunities available. Match up which project would be funded best by which funding source. Review annually.</p> <p>Work with grant consultants to research grant opportunities for projects</p> <p>Track annual and special openings of FEMA/State OES Pre-Disaster Mitigation Project Grants. Be prepared to apply for project grants during open grant sessions (usually with a 10-14 day period.)</p> <p>Research State of California and other federal agency funding opportunities and other school funding sources; be prepared to apply when opportunities present themselves</p> <p>Conduct a FEMA approved cost benefit analysis on high priority projects.</p>
Time Line	Ongoing
Constraints	Available Personnel and Time
Funding Sources	General Fund
Cost Estimate	Staff Time
Benefits: Losses Avoided	Funding is critical to implementing all life safety and property protection mitigation strategies.
Priority	High
Plan Goals Addressed	
	Promote Public Awareness
X	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #2
Action item	Create additional funding mechanisms for Hazard Mitigation projects
Coordinating Organization	Assistant Vice Chancellor of Administrative Services
Ideas for Implementation	Establish a special fund or line item in the annual budget for hazard mitigation measures Establish a local reserve fund for hazard mitigation measures
Time Line	Ongoing
Constraints	Available Personnel and Time
Funding Sources	General Fund
Cost Estimate	Staff Time
Benefits: Losses Avoided	Funding is critical to implementing all life safety and property protection mitigation strategies.
Priority	High
Plan Goals Addressed	
	Promote Public Awareness
X	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #3
Action item	Develop and conduct NEW educational programs to educate employees, students and the public on the hazards and risk-reduction plans outlined in the District's Hazard Mitigation Plan.
Coordinating Organization	Risk Manager and Chief, District Safety & Security
Ideas for Implementation	<p>Use opportunities such as Benefit Fairs, Professional Development Fairs, Earthquake Preparedness Month, and other events to educate the employees, students and the public on the District's Hazard Mitigation Plan and projects.</p> <p>Train building captains and floor wardens on the hazards using the Hazard Mitigation Plan. This information will assist them in knowing what to prepare for, what supplies may be needed to respond, and what buildings may be more dangerous than others.</p> <p>Make RSCCD Natural Hazards Mitigation Plan available to the public by publishing the Plan electronically on the District's website and in the RSCCD college libraries</p> <p>Invite employees, students and the public to participate in the plan reviews</p> <p>Use local radio, newspapers and cable stations as a conduit for advertising public forums on the Hazard Mitigation Plan</p> <p>Utilize the maps and information contained in this Plan in outreach materials for mitigation, preparedness, response and recovery</p> <p>Ensure key employees are trained in the District's and Campus emergency response plans including the hazards and district vulnerabilities found in this Plan. Ensure they understand which buildings to use and which to not use during a disaster.</p>
Time Line	Ongoing
Constraints	Pending Funding and Available Personnel
Funding Sources	General Fund
Cost Estimate	Staff time
Benefits: Losses Avoided	This is low cost item; joining existing events requires little cost and time; participation in these events can easily be done annually;
Priority	Medium
Plan Goals Addressed	
X	Promote Public Awareness
	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #4
Action item	Strengthen emergency preparedness and response by linking emergency services with hazard mitigation programs
Coordinating Organization	Chief, District Safety & Security
Ideas for Implementation	<p>Work the Cities of Santa Ana and Orange as well as the Orange County Operational Area to help provide facilities for community use during a disaster. Take steps to ensure these facilities are usable during a disaster.</p> <p>Review and ensure communication systems are capable of operating following a disaster so the District can meet its legal requirement of reporting damage, requesting needed resources, providing facilities, and sharing its resources during a response to a disaster.</p> <p>Ensure sufficient electrical power exists in each site EOC and the Information Technology Department to manage a disaster response. Develop a list of critical facilities that need generators but do not have them. Budget for, purchase, install and test generators regularly.</p>
Time Line	Ongoing
Constraints	Pending Funding and Available Personnel
Funding Sources	General Fund
Cost Estimate	Staff time
Benefits:	Life safety; reduction in property losses; efficiency during disasters; low cost to the District;
Losses Avoided	Sustained mitigation outreach program
Priority	Medium
Plan Goals Addressed	
	Promote Public Awareness
	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #5
Action item	Develop and Conduct Life Saving and Disaster Management Training for RSCCD staff
Coordinating Organization	Chief, District Safety & Security
Ideas for Implementation	<ul style="list-style-type: none"> a. Start a RSCCD Community Emergency Response Team (CERT) program for staff, faculty and students b. Once the plan is updated, train employees on the plan c. Train on NIMS, SEMS and ICS training d. Create and conduct EOC training for identified staff at all 7 sites e. Create and Conduct Command Post Training f. Utilize the Community Forum Power Point to educate employees on Hazard Mitigation, site risks, and what facilities to avoid (do not use as a shelter or other purpose) during an emergency until mitigation projects are complete.
Time Line	Ongoing
Constraints	Need to hire an Emergency Services Coordinator to prepare plans; develop and conduct training; design and conduct exercises; and to build and sustain the hazard mitigation and disaster preparedness outreach programs
Funding Sources	General Fund
Cost Estimate	Staff time
Benefits: Losses Avoided	Life safety; reduction in property losses; efficiency and effectiveness during disasters; sustain the hazard mitigation and disaster preparedness outreach programs
Priority	High
Plan Goals Addressed	
X	Promote Public Awareness
	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #6
Action item	Conduct annual meeting reviews of the Hazard Mitigation Plan and document all progress, continually advancing the plans strategies.
Coordinating Organization	Risk Manager
Ideas for Implementation	<p>Annually hold a meeting of the Hazard Mitigation Planning Team meeting and review each strategy for progress.</p> <ul style="list-style-type: none"> - This can be done pre-budget or when Hazard Mitigation grant money becomes available or both. <p>Document all progress</p> <p>At every opportunity, advance the mitigation strategies within the plan.</p>
Time Line	5-years annually
Constraints	Time (If time does not permit, at minimal send out the Mitigation Action Items Tracking Form (in the Plan Maintenance Section) annually and ask each district team member listed on the form as Coordinating Organization to update the form.) Consolidate their responses.
Funding Sources	Staff Time
Cost Estimate	10 Hours
Benefits: Losses Avoided	This annual review and advancement of the strategies will help keep the Hazard Mitigation goals as a district priority. Conducting the annual review prior to budget planning will remind everyone of the priority projects that need to be funded. Again, conducting the review when FEMA makes hazard mitigation grants available is another opportunity to receive available funding.
Priority	
Plan Goals Addressed	
X	Promote Public Awareness
X	Create Partnerships and Implementation
X	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services

Hazard	MULTI HAZARD ACTIVITY #7
Action Item	Update the District and Site emergency plans. <ol style="list-style-type: none"> a. Include critical information and maps from the Hazard Mitigation Plan b. Add the list of buildings that may need structurally retrofitted and note not to use any of these facilities during a disaster incident
Coordinating Organization	Risk Manager and Chief District Safety & Security
Ideas for Implementation	<ul style="list-style-type: none"> ▪ Provide this data to Site Emergency Coordinators who need to understand which facilities should be avoided in a flood
Time Line	5 years
Constraints	Pending Funding and Available Personnel
Funding Sources	General Fund
Cost Estimate	Staff Time
Benefits: Losses Avoided	Life-saving. Low cost item
Priority	Medium/High
Plan Goals Addressed	
X	Promote Public/College Community Awareness
X	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services

Hazard	MULTI-HAZARD ACTIVITY #8
Action Item	Develop a “District Warning Plan” to improve monitoring and dissemination of all hazardous conditions. Develop a list of RSCCD key personnel who should receive the early warnings. Include: policy makers, managers, planners, as well as facility and maintenance personnel to help prepare personnel and sites for emergencies. (i.e., flood warnings, dam failure, Santa Ana wind warnings, etc.)
Coordinating Organization	Chief District Safety & Security and his designees
Ideas for Implementation	<ol style="list-style-type: none"> 1. Get connected with the Orange County Operational Area Control One to receive warnings via email. . 2. <u>Monitor</u> these warnings and <u>disseminate</u> warnings to key elected, management, facilities, and maintenance personnel to help prepare personnel and facilities for emergencies. 3. Develop an agreement with IT on how to get this information on the District's website in an expedited manner and update as the situation changes. 4. Develop a dissemination list of <u>who</u> should be notified and <u>how</u> these communications will take place along alternative communications systems.
Time Line	Ongoing
Constraints	Pending Funding and Available Personnel
Funding Sources	General Fund
Cost Estimate	Staff Time; Fund a District Emergency Services Coordinator
Benefits: Losses Avoided	Will save lives, prevent property damage and environmental damage and mitigate litigation following a disaster.
Priority	High
Plan Goals Addressed	
X	Promote Public/College Community Awareness
X	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services

Hazard	MULTI HAZARD ACTIVITY #9
Action Item	Conduct annual reviews of the Hazard Mitigation Plan and document all progress, continually advancing the plan's strategies.
Coordinating Organization	Risk Manager
Ideas for Implementation	Schedule a meeting annually or send out this table to all district personnel on the Hazard Mitigation Team.
Time Line	5 years
Constraints	Time Limits
Funding Sources	General Fund
Cost Estimate	Staff Time
Benefits: Losses Avoided	Low cost item; minimal time
Priority	High
Plan Goals Addressed	
X	Promote Public/College Community Awareness
X	Create Partnerships and Implementation
	Protect Life and Property
	Protect Natural Systems
X	Strengthen Emergency Services