

RESOLUTION NUMBER R- 299121

ADOPTED ON APR 26 2004

RESOLUTION OF THE CITY OF SAN DIEGO ADOPTING  
THE SAN DIEGO COUNTY MULTI-JURISDICTIONAL  
HAZARD MITIGATION PLAN

WHEREAS, the Disaster Mitigation Act of 2000 [Act] requires all jurisdictions to have an approved hazard mitigation plan in place prior to November 1, 2004, in order to qualify for hazard mitigation program grants and post disaster mitigation monies; and

WHEREAS, the Federal Emergency Management Agency has been charged with implementation of the Act; and

WHEREAS, the Act requires the identification and assessment of risks related to disasters, implementation of adequate measures to reduce losses, and assurance that critical services and facilities will continue to function after a disaster; and

WHEREAS, the County of San Diego prepared a Multi-Jurisdictional Hazard Mitigation Plan [Plan] to comply with the Act; and

WHEREAS, planning team members from various City of San Diego departments, after reviewing the current capabilities of the City to lessen the impact of natural disasters, developed the specific goals, objectives, and action items within the Plan that are applicable to the City of San Diego; and

WHEREAS, these goals, objectives, and action items will enhance public awareness and understanding, create a decision tool for management, provide compliance with State and Federal program requirements, enhance local policies for hazard mitigation capabilities, provide

inter-jurisdictional coordination of mitigation related programming, and achieve regulatory compliance; and

WHEREAS, the Plan was unanimously approved by the Public Safety & Neighborhood Services Committee on March 17, 2004; and

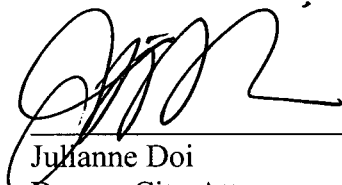
WHEREAS, costs to implement the Plan will be budgeted into operating funds through the annual budgeting process with additional funds through federal or state grants; NOW, THEREFORE,

BE IT RESOLVED, by the Council of the City of San Diego, as follows:

1. That the San Diego County Multi-Jurisdiction Hazard Mitigation Plan is adopted.
2. That the City Manager, Director of Homeland Security, or the duly designated representative is authorized to implement the Plan.

APPROVED: CASEY GWINN, City Attorney

By

  
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Julianne Doi  
Deputy City Attorney

JQD:cw  
04/09/04  
Or.Dept: Homeland Security  
R-2004-1062

**5.16 CITY OF SAN DIEGO**

The City of San Diego (San Diego) reviewed a set of jurisdictional-level hazard maps including detailed critical facility information and localized potential hazard exposure/loss estimates to help identify the top hazards threatening their jurisdiction. In addition, LPGs were supplied with exposure/loss estimates for San Diego summarized in Table 5.16-1. See Section 4.0 for additional details.

**Table 5.16-1  
Summary of Potential Hazard-Related Exposure/Loss in San Diego**

Hazard Type	Exposed Population	Residential		Commercial		Critical Facilities	
		Number of Residential Buildings	Potential Exposure/Loss for Residential Buildings (x \$1,000)	Number of Commercial Buildings	Potential Exposure/Loss for Commercial Buildings (x \$1,000)	Number of Critical Facilities	Potential Exposure for Critical Facilities (x \$1,000)
Coastal Storm / Erosion	1,849	749	310,630	12	118,954	0	0
Dam Failure	135,234	22,834	8,612,306	1,164	5,630,720	523	2,804,819
Earthquake (Annualized Loss - Includes shaking, liquefaction and landslide components)	1,223,503	309,774	42,415	4326	17,384	1,326* / 1,341**	71,207* / 492,822**
<b>Floods (Loss)</b>							
100 Year	49,530	12,541	338,856	331	153,581	162	1,589,400
500 Year	74,812	18,942	540,536	581	277,197	269	2,061,632
<b>Rain-Induced Landslide</b>							
High Risk	192,141	58,959	16,407,169	454	2,085,282	256	980,243
Moderate Risk	27,973	8,898	2,561,491	53	207,458	38	111,859
Tsunami	25,578	5,145	3,395,635	294	1,077,374	99	813,331
<b>Wildfire/ Structure Fire</b>							
Extreme	35	12	3561	0	0	10	19094
Very High	21,010	7,687	2,091,726	66	363,040	51	220,012
High	16,351	6,070	1,792,312	197	1,215,156	67	221,746
Moderate	1,143,729	285,539	87,721,495	3,828	17,178,244	1,584	5,884,949

\* Represents 100-year earthquake value under three earthquake scenarios (shake only, shake and liquefaction, and shake and landslide).

\*\* Represents 500-year earthquake value under three earthquake scenarios (shake only, shake and liquefaction, and shake and landslide).

After reviewing the localized hazard maps and exposure/loss table above, the following hazards were identified by the San Diego LPG as their top five.

- **Structure Fire/Wildfire**
- **Coastal Storms/Erosion/Tsunami**

the low skilled, or other economically disadvantaged persons. Such activities are targeted to low-income areas of the City of San Diego including redevelopment areas, the Enterprise Community, and Targeted Employment Areas.

- City of San Diego Development Services Department
  - The Development Services Department (DSD) manages the City of San Diego's land development process from concept to completion. The scope of responsibility for construction and development projects includes permit issuance; review of subdivision maps and public improvement and grading plans; compliance with land use regulations, community plans and environmental status; review of construction plans; and construction projects.
  - Land Development Code / Environmentally Sensitive Land Regulations and Coastal Development Regulations: These sections of the Land Development Code would require permits and compliance with specific requirements for any disturbance of defined environmentally sensitive lands (habitat, wetlands, steep hillsides, coastal bluffs, etc.) or for any work done within the coastal zone. This would include impacts resulting from emergency work to repair or restore an area damaged by those hazards included in this plan. The Land Development Code, however, has specific provisions allowing the City Manager to authorize emergency work without permits and to have the required permits obtained after the fact. This would allow emergency work to be performed without delay.
- City of San Diego – Engineering and Capital Projects Department
  - This Department is responsible for planning, design and construction of public improvement projects that encompass building fire stations, libraries, parks and parks buildings, police stations, bikeways, drainage facilities, street lights, street improvements, and water and sewer facilities.
  - Field Engineering Division: Provides construction management, materials testing, and construction surveying for capital, land development, and public, improvement projects.
  - Architectural Engineering and Contracts Division: Provides project management, design and review of public buildings, construction document processing, advertisement and contract award processing, and ADA /Title 24 compliance.
  - Water and Sewer Division: Provides project management, design and review of water and sewer infrastructure projects
  - Transportation Engineering Division: Provides project management, design, and preparation of construction documents for transportation improvement projects that include drains, channels, roadways, major streets, bridges, coastal erosion improvements, bikeways, alleys, and slope restoration.
- City of San Diego - Environmental Services Department
  - Collection Services Division: This division within the Environmental Services Department is responsible for collecting, hauling and disposing of refuse, recyclables and yard waste from residences, small businesses and public rights of way litter containers. Collection Services is

service oriented organization which provides innovative and effective leadership; and to be supportive and responsive to the needs of City Government.

- The City of San Diego Fire Department conducts subdivision plan review for fire access, provision of fire lanes, types of water supply needs, and location of water supply sources. The Fire Department also conducts plan review and occupancy classification in hazardous areas both in and outside buildings, establishing or reviewing the type, amount, hazard class, use, and dispensing and mixing of hazardous materials.
- City of San Diego – General Services Department
  - Purchasing Division: Responsible for day-to-day and emergency procurement for all City departments.
  - Facilities Division: Responsible for day-to-day operation, repair and maintenance of City facilities including preventative maintenance, emergency repairs and, as funding permits, deferred maintenance.
  - Storm Water Pollution Prevention Division: Conducts education, employee training, water quality monitoring, source identification, code enforcement, watershed management, and Best Management Practices development/implementation with the City of San Diego. Represents the City on storm water and NPDES storm water permit issues before the Principal Permittee and the County Department of Environmental Health, and Regional Water Quality Board Control. The Storm Water Program also provides technical expertise to all City departments to ensure implementation and compliance with permits.
- City of San Diego – Metropolitan Wastewater Department
  - Public Information Office/Volunteer Canyon Watchers Program: This office within the Metropolitan Wastewater Department trains citizen volunteers to identify sewer spills or potential spills in canyon areas inaccessible to vehicle traffic.
  - City Hazardous Materials Program
  - MWWD Health, Safety, and Training Program: Includes procedures for Bloodborne Pathogens Program, Chemical Hygiene Plan, Confined Spaces Program, Hazard Communication Program, and Hazardous Materials Transport Program
  - MWWD Department Operations Plan: Includes ICS functions for declared emergencies with in MWWD.
- City of San Diego – Planning Department
  - The mission of the City of San Diego's Planning Department is to create a well planned, desirable living and working environment for the residents of San Diego through the development and implementation of land use and transportation policies and long-range fiscal planning for public facilities.
  - Progress Guide and General Plan – Public Facilities, Services and Safety Element/ Guidelines and Standards for Fire Stations: Provides guidelines and standards for location of fire stations.

## SECTION FIVE

## Goals, Objectives and Actions

- La Jolla Community Plan (Draft – not yet in effect): Includes policies and recommendations on natural resource protection, protection of shoreline areas, coastal bluffs, and steep hillsides.
- Mid-City Communities Plan: Includes goals and recommendations on faults and liquefaction, soil structure, landslides, shrink and swell characteristics, hazardous materials, and soil quality. Also includes goals and recommendations on police and public safety, and fire and life safety.
- Mira Mesa Community Plan: Provides erosion control measures for north city areas draining into Los Penasquitos or San Dieguito Lagoons.
- Mission Valley Community Plan: Includes a major section on flood control policies and recommendations. Also includes an extensive Wetlands Management Plan.
- Multiple Species Conservation Program (MSCP): The MSCP Program includes considerable open space lands around flood plains. This land helps preserve the floodplain and prevent excessive development in floodplain areas. Additionally, the MSCP requires restoration of slopes in or adjacent to the preserve with native vegetation. This can help to prevent erosion.
- Ocean Beach Precise Plan: Includes goals and recommendations on police and fire protection. Includes goals and recommendations on shoreline development to minimize bluff erosion.
- Peninsula Community Plan: Includes recommendations for erosion control and bluff stabilization, especially along Sunset Cliffs.
- Rancho Bernardo Community Plan: Includes recommendation that northwestern and southern drainage areas should be served by courses and channels within open space areas and minor drainage structures. Also, where open space areas are used for drainage, the drainage channel and or flow area should be kept free of obstructions.
- Rancho Encantada Precise Plan: Includes drainage and erosion control guidelines to reduce runoff and minimize erosion. Also includes a provision in the Mitigation Monitoring and Reporting Program (MMRP) that an existing 4,000 gallon above ground diesel fuel tank at "Site J" be removed within 6 months of vacation by the lessee. The MMRP also states that several buildings proposed for demolition may contain hazardous materials and that following demolition, the soil should be field screened in areas where hazardous materials were known to have been used or stored. If contamination is discovered, the property owner is required to take remedial action as appropriate, with a written report to the City.
- Sabre Springs Community Plan: One objective is to maintain, to the maximum extent possible, Chicarita and Penasquitos Creeks in their natural drainage condition. The Plan gives specific direction on how to accomplish this objective. Grading should minimize the potential for erosion and settling.
- San Pasqual Valley Plan: This plan contains a flood control element with several policies and proposals for minimizing flood potential. Main proposals are to modify existing leases to allow pilot channel maintenance by the City and not the lessees and to maintain an approximately 40 foot wide pilot channel bottom to maintain flood carrying capacity.

**Table 5.16-2  
City of San Diego: Administrative and Technical Capacity**

Staff/Personnel Resources	Y/N	Department/Agency and Position
A. Planner(s) or engineer(s) with knowledge of land development and land management practices	Y	Planning, Development Services, Community/Economic Development, Environmental Services, and Engineering and Capital Projects
B. Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Engineering & Capital Projects, General Services/Facilities and Development Services.
C. Planners or Engineer(s) with an understanding of natural and/or manmade hazards	Y	Fire-Rescue, Police, Development Services, Planning, Environmental Services, and Engineering and Capital Projects.
D. Floodplain manager	Y	Development Services, and Engineering and Capital Projects
E. Surveyors	Y	Engineering & Capital Projects and Environmental Services
F. Staff with education or expertise to assess the community's vulnerability to hazards	Y	Development Services
G. Personnel skilled in GIS and/or HAZUS	Y	Information, Technology & Communications, and Engineering and Capital Projects
H. Scientists familiar with the hazards of the community.	N	
I. Emergency manager	Y	Homeland Security, and Engineering and Capital Projects
J. Grant writers	Y	Financial Management, Park & Recreation and Environmental Services.

The legal and regulatory capabilities of San Diego are shown in Table 5.16-3, which presents the existing ordinances and codes that affect the physical or built environment of San Diego. Examples of legal and/or regulatory capabilities can include: the City's building codes, zoning ordinances, subdivision ordinances, special purpose ordinances, growth management ordinances, site plan review, general plans, capital improvement plans, economic development plans, emergency response plans, and real estate disclosure plans.

**Table 5.16-4  
City of San Diego: Fiscal Capability**

Financial Resources	Accessible or Eligible to Use (Yes/No)
A. Community Development Block Grants (CDBG)	Yes
B. Capital improvements project funding	Yes
C. Authority to levy taxes for specific purposes	Yes
D. Fees for water, sewer, gas, or electric service	Yes
E. Impact fees for homebuyers or developers for new developments/homes	Yes
F. Incur debt through general obligation bonds	Yes
G. Incur debt through special tax and revenue bonds	Yes
H. Incur debt through private activity bonds	UK
I. Withhold spending in hazard-prone areas	Yes

**5.16.2 Goals, Objectives and Actions**

Listed below are San Diego’s specific hazard mitigation goals, objectives and related potential actions. For each goal, one or more objectives have been identified that provide strategies to attain the goal. Where appropriate, the City has identified a range of specific actions to achieve the objective and goal.

The goals and objectives were developed by considering the risk assessment findings, localized hazard identification and loss/exposure estimates, and an analysis of the jurisdiction’s current capabilities assessment. These preliminary goals, objectives and actions were developed to represent a vision of long-term hazard reduction or enhancement of capabilities. To help in further development of these goals and objectives, the LPG compiled and reviewed current jurisdictional sources including the City’s planning documents, codes, and ordinances. In addition, City representatives met with consultant staff and/or OES to specifically discuss these hazard-related goals, objectives and actions as they related to the overall Plan. Representatives of numerous City departments involved in hazard mitigation planning, including Fire, Police, and Public Works provided input to the San Diego LPG. The San Diego LPG members were:

- Carey Brooks
- Kelly Broughton
- Gabriela Cloverdale
- Paul Cooper
- Lance Dormann
- Kevin Haupt
- Werner Landry
- D.P. Lee



“Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and State-owned facilities, due to”:

- Goal 5. All Hazards.
- Goal 6. Floods.
- Goal 7. Severe Weather.
- Goal 8. Geological Hazards.
- Goal 9. Structural/Wildfire.

**5.16.2.2 Objectives and Actions**

The City of San Diego developed the following broad list of objectives and actions to assist in the implementation of each of their 9 identified goals. The City of San Diego developed objectives to assist in achieving their hazard mitigation goals. For each of these objectives, specific actions were developed that would assist in their implementation. A discussion of the prioritization and implementation of the action items is provided in Section 5.16.2.3.

<b>Goal 1: Promote disaster-resistant future development.</b>	
<i>Objective 1.A: Encourage and facilitate the development or updating of general plans and zoning ordinances to limit development in hazard areas.</i>	
Action 1.A.1	Update the Public Facilities, Services, and Safety elements of the City’s General Plan.

<b>Goal 2: Promote public understanding, support and demand for hazard mitigation.</b>	
<i>Objective 2.A: Educate the public to increase awareness of hazards and opportunities for mitigation actions.</i>	
Action 2.A.1	Enhance the public’s awareness of hazard mitigation efforts utilizing the City of San Diego’s cable TV channel and other electronic media, as well as through traditional print media.
Action 2.A.2	Increase awareness of individual homeowners, other property owners, the business community, and others in the importance of taking proactive steps to mitigate the risk of hazards.
<i>Objective 2.B: Promote partnerships between the state, counties, local and tribal governments to identify, prioritize, and implement mitigation actions.</i>	

<b>Goal 4: Improve hazard mitigation coordination and communication with federal, state, local and tribal governments. (continued)</b>	
<i>Objective 4.C: Improve the State's capability and efficiency at administering pre- and post-disaster mitigation.</i>	
Action 4.C.1	Participate in the development and execution of Emergency Operations Center (EOC) and Department Operation Centers (DOC) table top and functional disaster exercises (addressing the response and recovery phases), which include Federal Military and State representative participation.

<b>Goal 5: Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and State-owned facilities, due to hazards (structural fire/wildfire, coastal storms/erosion/tsunami, earthquake, dam failure, flood, landslide, and other human caused hazards).</b>	
<i>Objective 5.A: Develop a comprehensive approach to reducing the possibility of damage and losses due to hazards (structural fire/wildfire, coastal storms/erosion/tsunami, earthquake, dam failure, flood, landslide, and other human caused hazards).</i>	
Action 5.A.1	Develop an integrated communication/notification plan, including information about road closures, evacuation routes, unified command post locations, staging areas, and shelters. This includes coordination between police and fire personnel for evacuations, and a County-wide damage assessment team.
Action 5.A.2	Develop a post-disaster construction and demolition waste recycling ordinance, which includes alternate recycling and disposal sites.
Action 5.A.3	Provide to critical City of San Diego facilities backup electrical power generating systems, fuel, and necessary supplies in case of major power outages.
Action 5.A.4	Replace all underground petroleum storage tanks with above ground tanks at critical City facilities.

<b>Goal 6: Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and State-owned facilities, due to <u>floods</u>.</b>	
<i>Objective 6.A: Develop a comprehensive approach to reducing the possibility of damage and losses due to floods.</i>	
Action 6.A.1	Work with Federal and State authorities regarding regulations that add expense and time to flood control measures and maintenance activities.

## SECTION FIVE

## Goals, Objectives and Actions

The Disaster Mitigation Action of 2000 (at 44 CFR Parts 201 and 206) requires the development of an action plan that not only includes prioritized actions but one that includes information on how the prioritized actions will be implemented. Implementation consists of identifying who is responsible for which action, what kind of funding mechanisms and other resources are available or will be pursued, and when the action will be completed.

The top 22 prioritized mitigation actions as well as an implementation strategy for each are:

**Action Item #1:** Enhance the public's awareness of hazard mitigation efforts utilizing the City of San Diego's cable TV channel and other electronic media, as well as through traditional print media.

**Coordinating Individual/Organization:** Public and Media Affairs/Information Technology and Communications

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 - 3 year time frame

**Action Item #2:** Develop an integrated communication/notification plan, including information about road closures, evacuation routes, unified command post locations, staging areas, and shelters. This includes coordination between police and fire personnel for evacuations, and a County-wide damage assessment team.

**Coordinating Individual/Organization:** Homeland Preparedness Coordination Council & Office of Homeland Security

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 - 3 year time frame

**Action Item #3:** Build and support local partnerships, such as the Unified Disaster Council (UDC) and Homeland Preparedness Coordination Council (HPCC), and the coordination of mutual aid agreements to continuously become less vulnerable to hazards.

**Coordinating Individual/Organization:** Homeland Preparedness Coordination Council & Office of Homeland Security

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 - 3 year time frame

**Action Item #4:** Develop a means of providing water for fire fighting when water service is disrupted.

**Coordinating Individual/Organization:** Engineering and Capital Projects/Water/Transportation/General Services/Fire Rescue

**Potential Funding Source:** Need to seek Federal or State funding

**Implementation Timeline:** 1-10 year time frame

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**Coordinating Individual/Organization:** Office of Homeland Security & Homeland Preparedness Coordination Council

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 –3 year time frame

**Action Item #11:** Work with local chambers of commerce, trade associations, and employee unions to encourage them to promote hazard mitigation as a part of safe work practices.

**Coordinating Individual/Organization:** Community and Economic Development

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 –3 year time frame

**Action Item #12:** Encourage development of standardized Emergency Operations Plans within the City of San Diego that coordinate with County-wide Emergency Operations Plans.

**Coordinating Individual/Organization:** Office of Homeland Security & Homeland Preparedness Coordination Council

**Potential Funding Source:** Need to seek Federal or State funding

**Implementation Timeline:** 1 – 3 year time frame

**Action Item #13:** Operate the City's Emergency Operations Center (EOC) and Department Operations Centers (DOC) following the Standardized Emergency Management System (SEMS) and Incident Command System (ICS).

**Coordinating Individual/Organization:** Office of Homeland Security & Homeland Preparedness Coordination Council

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 – 3 year time frame

**Action Item #14:** Update the Public Facilities, Services, and Safety elements of the City's General Plan.

**Coordinating Individual/Organization:** Planning

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 –5 year time frame

**Action Item #15:** Replace all underground petroleum storage tanks with above ground tanks at critical City facilities.

**Coordinating Individual/Organization:** Environmental Services

**Potential Funding Source:** Need to seek Federal or State funding

# SECTION FIVE

## Goals, Objectives and Actions

**Potential Funding Source:** Need to seek Federal or State funding

**Implementation Timeline:** 1 – 5 year time frame

**Action Item #22:** Establish an urban/wild land fire technical working group in conjunction with County and State representatives.

**Coordinating Individual/Organization:** Office of Homeland Security & Homeland Preparedness Coordination Council & Fire and Life Safety

**Potential Funding Source:** Operating Budget

**Implementation Timeline:** 1 – 3 year time frame