

[JURISDICTION] CATASTROPHIC EARTHQUAKE DEBRIS REMOVAL CONCEPT OF OPERATIONS

WORKSHOP

[DATE]



OPENING, INTRODUCTIONS, & OVERVIEW

WELCOME AND HOUSEKEEPING

- Sign In, Workshop Materials
- Restrooms
- Silence cell phones
- Emergencies
- Breaks



INTRODUCTIONS

- Facilitators
- Participants



WORKSHOP SCHEDULE

[Date]

8:30 - 9:00	Registration
9:00 – 9:15	Opening and Introductions
9:15 - 10:00	Module 1: Plan Overview
10:00 - 11:30	Module 2: Objectives 1 to 4
10:00 - 10:25	Objective 1: Situational Awareness and Priorities
10:25 – 10:45	Objective 2: Debris Clearance
10:45 – 11:10	Objective 3: Building and Infrastructure Assessments
11:10 - 11:30	Objective 4: Staging, Processing, and Disposal of Debris
11:30 - 12:00	Working Lunch
12:00 – 1:00	Module 3: Objectives 5 to 7
12:00 – 12:20	Objective 5: Debris Removal
12:20 – 12:40	Objective 6: Demolition of Unsafe Buildings
12:40 – 1:00	Objective 7: Long-Term Recovery
1:00 – 1:30	Module 4: Review and Findings
1:30 - 1:45	Participant Feedback

WORKSHOP MANUAL

[insert image of Workshop Manual Cover]



WORKSHOP PURPOSE

 Conduct a systematic review of the [Jurisdiction] Catastrophic Earthquake Debris Removal Plan.



WORKSHOP PURPOSE (CONT.)

- To familiarize workshop participants with critical elements discussed in the [Jurisdiction] Debris Removal Plan
- To review and/or evaluate critical elements and concepts presented in the Plan
- To identify gaps and areas for improvement for Plan revisions and future planning efforts

WORKSHOP OBJECTIVES

- Evaluate the tasks identified for the development of situational awareness and priority operations.
- Evaluate the tasks identified for debris clearance operations and discuss Public Assistance Program eligibility requirements for debris clearance operations.
- 3. Evaluate the tasks identified for the assessment of buildings and infrastructure and discuss Public Assistance Program eligibility requirements for the assessment of buildings and infrastructure.
- 4. Evaluate the tasks identified for the staging, processing, and disposal of debris and discuss Public Assistance Program eligibility requirements for the staging, processing, and disposal of debris.

WORKSHOP OBJECTIVES (CONT.)

- Evaluate the tasks identified for debris removal operations and discuss Public Assistance Program eligibility requirements for debris removal operations.
- 6. Evaluate the tasks identified for the demolition of unsafe buildings and infrastructure and discuss Public Assistance Program eligibility requirements for the demolition of unsafe buildings and infrastructure.
- 7. Evaluate the tasks identified for long-term debris removal recovery operations and discuss Public Assistance Program funding requirements for long-term debris removal recovery operations.

WORKSHOP STRUCTURE

- Workshop will be an interactive, facilitated discussion, organized by modules
- Modules will not be presented chronologically to mirror the scenario event; rather, they will support objectives formulated to verify accuracy and consistency of the Plan and the operational elements necessary to carry out debris removal
- Participants will be introduced to Objectives and Discussion Points that support those objectives and will be asked to respond to facilitated questions

WORKSHOP GUIDELINES

- Primary goal of the workshop forum is to ensure that the coordination, resource-requesting and decision-making processes are accurately described
- Emphasis is on identifying potential inaccuracies or gaps and resolving them through discussion
- Developing solutions should be the focus
- Participation based on knowledge of existing plans and capabilities, and insights is encouraged

WORKSHOP GUIDELINES (CONT.)

- Decisions are not precedent-setting; the workshop is an opportunity to present and discuss multiple options and possible solutions
- Support from other responders and agencies is assumed
- Scenario, objectives, and assumptions serve as the basis for discussion
- Goal is to review elements of the plans, not to validate the scenario or the HAZUS estimates



MODULE 1: OVERVIEW OF THE [JURISDICTION] CATASTROPHIC EARTHQUAKE DEBRIS REMOVAL CONCEPT OF OPERATIONS

PLAN OVERVIEW

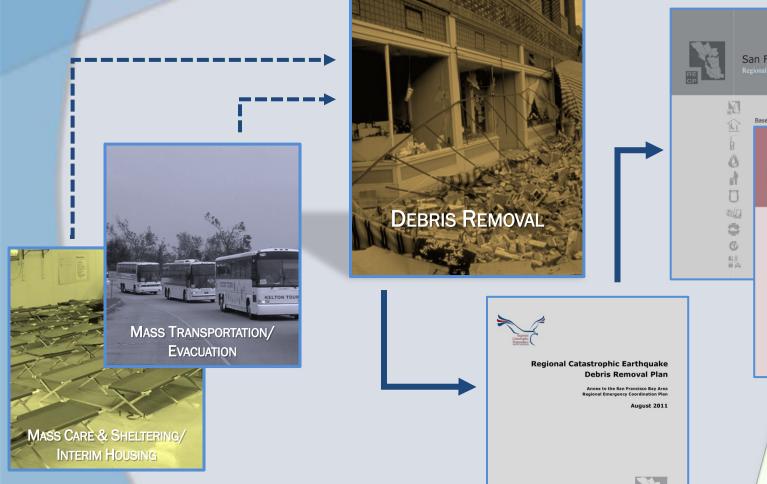
- The Plan addresses:
 - Development of situational awareness and priorities
 - Debris clearance
 - Assessment of buildings and infrastructure
 - Staging, processing, and disposal of debris
 - Debris removal
 - Demolition of unsafe buildings and infrastructure



PLAN STRUCTURE

- Main Body: Provides operational details for each of the issues identified on the previous slide
- Appendix A: Glossary of acronyms, abbreviations, and key terms
- Appendix B: Maps referenced in the Plan
- Appendix C: Authorities, Regulations, and Requirements that affect Debris Removal Operations
- Appendix D: Tables referenced in the Plans
- Appendix E: Information Collection Plan

PLAN RELATIONSHIPS







ॐ FEMA

SHOP

[JURISDICTION - UPDATE ON MASTER S

CATASTROPHIC EARTHQUAKE SCENARIO

- The plan is based on a catastrophic earthquake scenario
- The scenario used for planning purposes is a recurrence of the 1906 moment magnitude (M) 7.9 earthquake on the northern segment of the San Andreas fault.



EARTHQUAKE CHARACTERISTICS

- Main shock lasts 45 to 60 seconds
- Epicenter is just outside the entrance to the San Francisco Bay, west of the Golden Gate Bridge
- Earthquake ruptures approximately 300 miles of the northern segment of the San Andreas Fault
- Threats and hazards resulting from the main shock are aggravated or recur during aftershocks, which continue for months after the main shock

REGIONAL IMPACTS

- 300,000 people seeking shelter
- 500,000 households without electricity
- 1.8 million households without potable water
- 7,000 fatalities
- 50 million tons of debris
- More than 1 million people requiring transportation assistance because of hazardous conditions or dislocation

REGIONAL IMPACTS (CONT.)

- Threats and hazards resulting from shaking, surface fault rupture, and liquefaction include:
 - Structural and nonstructural damage to buildings and infrastructure
 - Widespread fires
 - Subsidence and loss of soil-bearing capacity
 - Displacement along the San Andreas Fault
 - Widespread landslides
 - Hazardous materials spills and incidents
 - Dam/levee failure, resulting in flooding
 - Civil disorder



DEBRIS REMOVAL ASSUMPTIONS

[Enter the assumptions identified in your Debris Removal Plan. The assumptions are used to enhance the scenario description and provide a basis for the discussion]





MODULE 2: OBJECTIVES 1 TO 4

OBJECTIVE 1: SITUATIONAL AWARENESS AND PRIORITIES

Discussion Time: Approximately 25 Minutes

Evaluate the tasks identified for the development of situational awareness and priority operations.

- Discussion Point 1: Developing situational awareness
- Discussion Point 2: Determining debris clearance priorities



OBJECTIVE 2: DEBRIS CLEARANCE

Discussion Time: Approximately 20 Minutes

Evaluate the tasks identified for debris clearance operations and discuss Public Assistance Program eligibility requirements for debris clearance operations.

- Discussion Point 1: Determining and securing debris clearance resources
- Discussion Point 2: Clearing debris
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for debris clearance



OBJECTIVE 3: BUILDING AND INFRASTRUCTURE ASSESSMENT

Discussion Time: Approximately 25 Minutes

Evaluate the tasks identified for the assessment of buildings and infrastructure and discuss Public Assistance Program eligibility requirements for the assessment of buildings and infrastructure.

- Discussion Point 1: Determining and securing safety assessment resources
- Discussion Point 2: Conducting safety assessments
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for safety assessments

OBJECTIVE 4: STAGING, PROCESSING, AND DISPOSAL OF DEBRIS

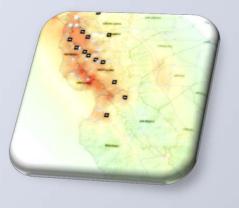
Discussion Time: Approximately 20 Minutes

Evaluate the tasks identified for the staging, processing, and disposing of debris and discuss Public Assistance Program eligibility requirements for the staging, processing, and disposing of debris.

- Discussion Point 1: Determining and securing debris management sites and monitoring resources
- Discussion Point 2: Determining debris management sites, processing facilities, and landfills
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for staging, processing, and disposing of debris



BEGIN WORKING LUNCH 30 MINUTES



MODULE 3: OBJECTIVES 5 TO 7

OBJECTIVE 5: DEBRIS REMOVAL

Discussion Time: Approximately 20 Minutes

Evaluate the tasks identified for debris removal operations and discuss Public Assistance Program eligibility requirements for debris removal operations.

- Discussion Point 1: Determining and securing debris removal resources
- Discussion Point 2: Removing Debris
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for debris removal



OBJECTIVE 6: DEMOLITION OF UNSAFE BUILDINGS

Discussion Time: Approximately 20 Minutes

Evaluate the tasks identified for demolition of unsafe buildings and infrastructure and discuss Public Assistance Program eligibility requirements for the demolition of unsafe buildings and infrastructure.

- Discussion Point 1: Determining and securing demolition resources
- Discussion Point 2: Demolishing unsafe buildings and infrastructure
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for demolition

OBJECTIVE 7: LONG-TERM RECOVERY

Discussion Time: Approximately 20 Minutes

Evaluate the tasks identified for long-term debris removal recovery operations and discuss Public Assistance Program funding requirements for long-term debris removal recovery operations.

- Discussion Point 1: Defining long-term recovery debris removal operations
- Discussion Point 2: Identifying organizations to handle long-term recovery debris removal operations
- Discussion Point 3: Understanding the Public Assistance Program's eligibility requirements for long-term debrise removal recovery operations



Module 4: Review and Findings

REVIEW AND FINDINGS

- Reviewed Concepts
- Strengths
- Identified Gaps or Areas for Improvement



NEXT STEPS

- Complete Participant Feedback Forms
- [Next steps may include: the development of an After Action Report, an After Action Meeting, additional workshops or working groups, and revisions to the Plan]





THANK YOU!

Please leave your completed Participant Feedback Forms on the tables.

PROJECT POINTS OF CONTACT

[Agency Name]

[Name of Contact]
[Title/Position]
[Phone Number]
[Email]

[Agency Name]

[Name of Contact]
[Title/Position]
[Phone Number]
[Email]