



Lifelines Council
MEETING MINUTES
March 11, 2021
WEBEX Virtual Meeting
1:00PM-2:30PM

Meeting #34

Co-Chairs

Carmen Chu, City Administrator, City and County of San Francisco
Chris Barkley, AECOM, Private Sector Co-Chair

Represented Agencies

AECOM	San Francisco Office of Resilience & Capital Plng
MTC/ABAG	San Francisco City Administrator's Office
UASI	San Francisco Dept. of Environment
California Resiliency Alliance	San Francisco Dept. of Technology
Caltrans	San Francisco Dept. of Emergency Management
Verizon	San Francisco Risk Management
Comcast	San Francisco International Airport
PEER	San Francisco Municipal Transport Agency
PG&E	San Francisco Mayor's Office
Wells Fargo	San Francisco Fire Department
Port of San Francisco	San Francisco Public Utilities Commission
Department of Homeland Security	San Francisco Department of Public Works
UC Berkeley	

1. CALL TO ORDER

Brian Strong called the meeting to order at 1:04pm.

2. INTRODUCTIONS AND AGENDA REVIEW

Brian Strong introduced the recently appointed City Administrator Carmen Chu who is the new Lifelines Council Co-Chair. City Administrator Chu spoke about the importance of partnerships between critical service providers and utilities to enhance resilience in-light of COVID and other shocks and stresses. Chris Barkley remarked he is hopeful to get back to the original focus of the Lifelines Council and drive change with the findings from the Lifelines [Restoration Project report](#). Attendees introduced themselves and their representative organizations.

3. EMBARCADERO SEAWALL MULTI-HAZARD RISK ASSESSMENT

Steven Reel provided an overview of the [Multi-Hazard Risk Assessment](#), offered tipping points for flood, sea level risk, and earthquake risk and how the Port is using its findings to move forward.

Steven Reel added that the Port is exploring a number of options to address at-risk facilities and infrastructure. For coastal flooding, impacts can be reduced through infrastructure systems. For groundwater, it's more about understanding how to reduce its impact before developing solutions. Ground water may be collecting on the land side of the wall so we may need invest in collection system. For earthquakes, the focus is on sea level wall stability. There are large areas of water movement with lateral spreading, impacting the Embarcadero and all the utilities there. Through stabilization actions, hazards can be reduced.

4. SAN FRANCISCO HAZARDS AND CLIMATE RESILIENCE PLAN

Melissa Higbee gave an update on the Hazards and Climate Resilience Plan (HCR).

Brian Strong added that the HCR is a large effort which incorporated a lot the work coming out of the Lifelines Council, including plans to address the Sea Wall. Many of these improvements end up working their way into the HCR, which set the stage for receiving funded through the Capital Plan. Currently, the Capital Plan is being updated and the EQ Safety Emergency Response bond, which was recently approved is doing some of this work. There are also bonds coming up to address the transportation network and others related to housing, waterfront resilience and health facilities.

Brian and Melissa explained how to utilize the Story Map. Examples of what are shown are geological hazards, landslides, liquefaction, cascading hazards, multi-hazards, air pollution, heat vulnerability, EQ risks, and flood risks and vulnerabilities.

5. UPDATE ON SAN FRANCISCO'S LIFELINES RESTORATION PERFORMANCE PROJECT REPORT

Brian Strong gave an update on the Lifelines Restoration Performance Project Report. He reminded the providers to come to future meetings, share updates on the performance report and what is being done to mitigate risks. For example, what have we learned from Covid? Covid has created many opportunities for advancements that are somewhat once in a lifetime to make. A lot has been done but there is more left to be done.

Chris Barkley replied that the Lifelines Council is an on-going long-range effort which was originally envisioned to understand how collectively improve resilience. The progression of the Sea Wall Multi-Hazard Risk Assessment is a good example of how complicated things can get and the journey of improving systems.

Louise Comfort thanked Steven Reel for the wonderful MHRA presentation and all the data that was collected. She suggested that he reach out to Sanjay Govindjee, the Director of SimCenter at UC Berkeley. He models interdependencies among different infrastructure systems, with his main goal which is to assist people with modeling, especially for earthquakes.

6. OPEN DISCUSSION AND ANNOUNCEMENTS

Next meeting date will be held on the second or third Thursday in September.

7. NEXT MEETING

The meeting was adjourned at 2:30pm.

8. ADJOURN

List of Attendees

Carmen Chu	City Administrator
Brian Strong	Office of Resilience and Capital Planning
Chris Barkley	AECOM
Mary Ellen Carroll	Department of Emergency Management
Lee-Ann Peling	Comcast
Laurie Johnson	UC Berkeley/PEER
Scarlett Lam	SFMTA
Erica Arteseros	Department of Homeland Security
Brad Benson	SF PORT
Paul Wood	Verizon
Howard Wong	UC Berkeley
Elaine Forbes	SF PORT
Amy Ramirez	UASI
Michael Germeraad	MTC/ABAG
Kelly Hernandez	SF Risk Management
Deputy Chief Rubenst	SF Fire Department
Melissa Higbee	Office of Resilience and Capital Planning
Monika Stoeffl	California Resiliency Alliance
Larry Mares	San Francisco International Airport
Joseph Reilly	SF PORT
Rod Iwashita	SF PORT
Maggie Johnson	SF Department of Environment
Steven Reel	SF PORT
Uday Prasad	SF PORT
Jill Raycroft	Department of Emergency Management
Louise Comfort	UC Berkeley
Albert Ko	SF Public Works
Darin Cline	PG&E

Chris Snyder	PG&E
Thomas O'Connor	SF Fire Department
Leah Budu	Caltrans
Peter Ohtaki	Wells Fargo