

# Boulder County CDBG-DR Collaborative

## December 11, 2015 Resiliency Performance Standards Workshop #2

### Meeting Minutes

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**Facilitator:** Sean Keithly, CollinsWoerman

**BCC Partners:** Heather Balsler, City of Louisville  
Harold Dominguez, City of Longmont  
Leslie Irwin, Boulder County  
Alisha Reis, Town of Nederland  
Sandi Seader, City of Longmont  
John O'Brien, Town of Lyons

Chris Meschuck, City of Boulder  
Kathy Fedler, City of Longmont  
Dale Rademacher, City of Longmont  
Victoria Simonsen, Town of Lyons  
Joel Wagener, Cit of Boulder  
Cal Youngberg, City of Longmont

**Consultants:** Sean Keithly, CollinsWoerman  
Steve Moddeneyer, CollinsWoerman  
Phuoc Lam, Hagerty Consulting

Julie Baxter, ColinsWoerman  
Chris Poland, CollinsWoerman

**State:** Rob Pressly, CRRO  
Waverly Klaw, DOLA

**HUD:** Aaron Gagne, Don Morris, Guadalupe Herrera

**Handouts:** Updated BCC's Infrastructure Projects - Round 2 Proposed projects

**Location:** Boulder County Clerk and Recorder's Office  
NIST Spreadsheets

#### **Agenda and Discussion Items:**

1:00 – Kathy Fedler asked that everyone introduce themselves.

Boulder County Collaborative received a grant from the State to complete the Resiliency Performance Standards Plan. All infrastructure projects funded under Round 2 must be vetted against these resiliency standards. CollinsWoerman consulting has been selected through a competitive selection process to complete these standards.

This is the second development workshop of the Boulder County Collaborative Resilience Performance Standards Plan. For complete meeting description and agenda items, please see CollinsWoerman's meeting record attached.

4:15 – Workshop adjourned.

**MEETING RECORD**

MEETING DATE 12/11/2015

 FROM / BY  
 Sean Keithly

REGARDING

 BoCo Collaborative Workshop  
 #2

PROJECT

 City of Longmont / Boulder County  
 Collaborative -- Development of  
 Resilience Performance Standards

CW PROJECT #

LONG01.15.065

**ATTENDEES & CC'S:**

ATTEND	CC		ATTEND	CC	
X		<b>Kathy Fedler</b> City of Longmont	X		<b>Dale Rademacher</b> City of Longmont
X		<b>Cal Youngberg</b> City of Longmont	X		<b>Waverly Klaw</b> State of Colorado DOLA
X		<b>Chris Meschuk</b> City of Boulder	X		<b>Rob Pressly</b> State of Colorado Resiliency and Recovery Office
X		<b>Leslie Irwin</b> Boulder County	X		<b>John O'Brien</b> Town of Lyons
X		<b>Phuoc Lam</b> Hagerty Consulting	X		<b>Heather Balsar</b> City of Louisville
X		<b>Joel Wagner</b> City of Boulder	X		<b>Alisha Reis</b> Town of Nederland
X		<b>Sandi Seader</b> City of Longmont	X		<b>Victoria Simonsen</b> City of Lyons
X		<b>Don Morris</b> US HUD Region 8	X		<b>Aaron Gagne</b> US HUD Region 8
X		<b>Guadalupe Herrera</b> US HUD Region 8	X		<b>Steve Moddemeyer</b> CollinsWoerman
X		<b>Julie Baxter</b> Acclivity Associates	X		<b>Chris Poland</b> Chris D. Poland Consulting Engineer
X		<b>Sean Keithly</b> CollinsWoerman	X		<b>Marine Siohan</b> Acclivity Associates

 FILE

**SENT VIA:**
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This meeting record is based upon CollinsWoerman's interpretation of the discussions and decisions that occurred at the above-referenced meeting. Those wishing to amend these minutes should contact our office within seven days of receipt. Thank you for your participation.

Issue Date: 12/14/2015

Item	Description	Action
1.	<b>[Meeting Agenda]</b> <b>1. Introductions</b> <b>2. Last meeting's recap</b> <b>3. Go through the project matrix and determine time to recovery goals</b> <ul style="list-style-type: none"> <li>• <i>Begin to define resilience standards by how long structures can be broken and when they have to be in service after a disaster.</i></li> </ul> <b>4. Homework: get list of stakeholders to invite and contact points</b> <ul style="list-style-type: none"> <li>• We will send you a worksheet to fill out on Monday, please send back by Wednesday</li> </ul>	Distribute / File

**MEETING RECORD**

**BEGIN MEETING RECORD:**

- Introductions
- Question to HUD representatives re: how the need for resilience standards came about, who will be responsible for overseeing them:
  - Standards will fall to HUD Region 8.
  - Federal Register language came from HQ
  - Office of Economic Resiliency - Other communities have gone through process. 143 communities have some results [re: resilience standards]. Most through Hurricane Sandy program. Rockefeller Foundation invested in project.
  - Did any other communities' standards have metrics? Other standards varied tremendously by community – very community-specific.
  - Neighborhood Stabilization Program example

**Last Meeting Recap**

- Desired outcomes for project identified at last meeting
- Goals - we will refer to other plans
- Original idea communicated at last meeting was to “nest” NIST into existing sectors and projects
- In putting together a draft resilience assessment worksheet, we decided to use an augmented NIST approach, using the NIST clusters. We added a “Natural Systems” category because NIST did not directly address this area originally

**Clusters Intro / Exercise**

- Introduction of the NIST spreadsheet
- Emergency Operations Centers
  - 1 in City of Boulder - city/county facility
  - 1 in Longmont - Longmont operated
  - Also unofficial EOCs
  - EOCs back each other up. Also alternative locations.
  - Time to recovery not extremely critical (Dale) - because the two [in Longmont and Boulder] back each other up
  - Follow-up with Mike Chard (Boulder County OEM)
- First Responder Facilities
  - Aaron -- HUD: for consistency's sake we should think about the buildings and their ability to stay operational
  - Biggest issue is dispatch

**MEETING RECORD**

- City of Boulder: how do we address mountain communities?
  - no redundancy in mountains so need to be able to work out of building
  - Waverly: Each community could do a similar exercise as this and address their particular needs
- Facilities include equipment/contents [i.e., not just the buildings themselves]
- Kathy F.: some communities have COOPs and this should gel with those; for some communities this becomes their COOP. If there are inconsistencies with what happens with this exercise and COOP plans, we can iron those out in the stakeholder meeting
- Hospitals - 5 overall
  - 1 in Longmont
  - 1 in Louisville
  - 1 in Boulder
  - 1 in Lafayette?
  - Regional trauma centers in Denver
  - Inherent backup
- Nursing homes
  - Some portion of patients can't be moved and must shelter in place
  - If need skilled nursing, move to hospital
  - Most are one bed, one room and could be doubled up
  - Follow-up with nursing facilities for more info
  - Example - Fraser Meadows had to evacuate upstairs -- had long term displacement issues (only one in the region where that was the case)
  - Private nursing homes may have emergency plans
    - is there a difference between public and private? [in terms of how evacuations are approached?]
- Holding Cells
  - Broomfield and Boulder have MOU
  - Couldn't move everybody to another jail
- Temporary Emergency Shelters
  - Kathy: In COOP plans?
- Single and Multi-Family housing
- Critical Retail
  - What you need to survive - pharmacies, grocery stores
- Religious and spiritual centers
  - Many of these facilities can play multiple roles
  - Emotional health - very important - more about community vs facility

**MEETING RECORD**

- More mental health than religious
- Churches will find their own space
- Add community center to this cluster
- Nederland -- more about the community center than churches/faith-based centers
- Single and Multi-family housing (full function) -
  - Depends on time of year.
  - Priority to lifeline utilities. Example of Lyons' prioritization during the immediate 2013 flood recovery -- wastewater, water, power, gas (in that order)
  - List of buyout projects are "real" even though not on Phuoc's list -- **contact Phuoc to confirm**
- Schools
  - If school district large enough, can move kids to other sites
  - If school has lot of kids on free breakfast/free lunch then economic impacts.
  - Some range in the 1-4 wks recovery (e.g., some schools should be back sooner than others given their social function)
- Hotels/motels
  - Needed to house all the recovery workers or displaced
  - Boulder defines them as critical facilities
- Community Recovery Category - Should we have retail as part of this (though critical retail is in a different category)? ← OK  
Marine fixed
  - Aaron Gagne (HUD) noted that retail is a major driver of local economies in CO
- Businesses - Manufacturing
  - Economic base of community
- Businesses - Retail Services
  - Retail important for government taxes
- Lifeline utilities required to be able to survive with 90 day reserve
- Businesses - Services Professions
  - Lawyers, doctors, architects
- Conferences and event venues
  - Not many in the area
- Emergency Protective Measures
  - FEMA definition
- Jamestown rain gauge - 1 of many rain gauges being implemented.
  - Probably built hardened with standalone power (solar? per Dale)
  - Like a stream gauge...but these differ in that they are used for emergency warning (simpler)

**MEETING RECORD**

- Checked "Don't Know" column because our team will need to dig further to figure out level to which standards need to be implemented (adequate / built back better) (Julie -- talk to Mike Chard?)

Transportation

Ingress

- Freeways and expressways
  - Question regarding how local jurisdictions can control the recovery of state highways
  - It may be more critical to have some of the minor roads open before the major highways because they bring goods to/from communities, emergency svcs, etc.
- Local roads: Opening v. rebuilding -- two different things
- Airports (regional)
  - Regional airports mostly only control the airspace 3 miles around the airport
  - Airports are a comparatively minor component of critical recovery -- e.g., helicopters can land anywhere

Egress

- Egress may be different than ingress -- e.g. medical emergencies. Lyons for example has 1st responder people in the community who can get people out quickly.

*Discussion:*

*[Discussion about what "zero" days means in terms of the recovery timeline. Decision that the event as a whole could be defined as "zero" even if it's 3 days long]*

- **Need to match up transportation timelines/recovery with critical facilities, buildings, etc.**

*[Question from Dale: Does the standard get tied to the approval of the project (e.g., you set the bar so high, jeopardize the ability to design the facility to reach any level that's within the realm of cost-effective)?]*

*[Chris: Aspirational vs. what can actually be done - can be different]  
[Important distinction between temporary and permanent -- temporary facilities can end up being long term]*

*[Kathy: Have been looking at this as addressing temporary solutions well as permanent -- if only permanent solutions, then this matrix could be quite different]*

*[Don Morris: The State can add their own requirements to the process -*

**MEETING RECORD**

*there is room for creativity working with Alison O’Kelley and Alison George [DOLA] who coordinate CDBG Housing Program. The key is the relationship with them, the dialogue that has been occurring even before the project was submitted.*

*Waverly: The people at the State may play more of an advisor role than a gatekeeper role].*

*[Chris Meschuk - There are a number of other standards that they need to meet for projects; higher-ups at Boulder have said if you apply a higher standard, great, but the money isn’t there to do that -- so the scope will need to be reduced]*

- Guadalupe (HUD): There [may] will be other money for infrastructure to augment funding that is already there for projects, e.g., potentially another TIGER round

--Note: Need to confirm road categories..."Minor Highway Arterial" vs. "Local Roads" vs. "Major Roads"--

**WATER INFRASTRUCTURE**

- Louisville Intake Diversion project - already past 24 months (temporary fix happened in a couple of days). New fix is designing better than what was there before. Would have fixed it permanently sooner if they had known for sure that they were meeting other agencies’ guidelines.
- Longmont: Multiple (7) basins provide redundancy → resiliency. Lost six in the last flood. Also need to think about standards applying to indoor demand (vs. all demands) when thinking about percentages of recovery

**WATERSHEDS**

\*\*\*\*\*

Next Meeting: Jan 11th (meeting with infrastructure representatives in the morning [9 to 11 AM], stakeholders in the afternoon [1 to 4 PM]) – we need to be clear about who should be invited to each meeting and how each meeting is distinct

**Stakeholders -- Examples**

- emergency managers
- nursing facilities
- water utility managers
- school districts
- watershed coalitions
- CDOT
- road and bridge/public works

**MEETING RECORD**

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**Homework: get list of stakeholders to invite and contact points**  
We will send you a worksheet to fill out on Monday, please send back by Wednesday

End Meeting Record