NFPA: A Critical Part of the CRR Equation

March 2019 | Chelsea Rubadou | CRR Strategist

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.™
CRR – What’s in Your Equation?

\[ CRR = \Delta \text{data} \quad \text{GIS} \quad \text{partnerships} \quad \text{buy-in} \quad \text{engagement} \quad \text{evaluation} \quad \text{fire service} \]

\[ \text{prioritization} \quad \text{resources} \quad \text{communication} \quad \text{comprehensive plan analysis} \quad \text{assessment} \]
CRR – What’s in Your Equation?

$$CRR = \text{NFPA} \left( \frac{aL(\Delta n+G)+b+(RP_{sh})^2+(c_pr/\rho)}{p_{ce}+f} \right)$$
In The Works At NFPA

• NFPA 1300 Standard on Community Risk Assessment and Community Risk Reduction Plan Development
NFPA 1300

“The purpose of this standard is to identify minimum requirements and components for conducting a CRA, developing and implementing a CRR plan, and the ongoing evaluation of the CRR plan.”
Why NFPA 1300?

• Normalize the definition of CRR
• Standardize the process
• Provide guidance and examples
What is Community Risk Reduction? (CRR)

“A process to identify and prioritize local risks, followed by the integrated and strategic investment of resources to reduce their occurrence and impact”

CRR is an all-hazards approach
CRR Process

Chapter 5
• Conduct the Community Risk Assessment (CRA)

Chapter 6
• Develop the CRR Plan

Chapter 7
• Implement and Evaluate the CRR Plan
What is a Community Risk Assessment? (CRA)

- A comprehensive evaluation that identifies and analyzes the risks that pertain to the overall community
- A CRA is the first and most critical step in the CRR process
- A CRA is based on data and facts and should solicit input from community stakeholders
A good CRA will…

- Identify specific risks affecting a community
- Locate hidden, hard-to-reach, or underserved populations
- Identify high-risk occupancies, populations, behaviors, and neighborhoods
- Establish the baseline for the development of goals, objectives, and strategies

Source: https://dashboards.mysidewalk.com/boulder-co-fire-dashboard-copy-1511196179/response-times
What about you?

• Have you completed a CRA?
• What types of data did you use?
• What surprised you?
Community Profiles

1. Demographic
2. Geographic
3. Building stock
4. Public safety response agencies
5. Community service organizations
6. Hazards
7. Economic
8. Past loss/event history
9. Critical Infrastructure

Source: https://dashboards.mysidewalk.com/boulder-co-fire-dashboard-copy-1511196179/response-times
Developing a CRR Plan

1. Prioritize risks in CRA
2. Identify root causes
3. Identify strategic partners
4. Establish goals and objectives
5. Develop strategies

Are these connected to your risks?
Put your plan into action!

1. Implement solutions/programs
2. Modify the CRR plan
3. Evaluate process and impact measures
## NFPA 1300

**Next Edition: 2020**

**Revision Cycle: Annual 2019**

### First Draft

- **Public Input Closing Date:** June 28, 2017
- **First Draft Report Posting Date:** February 13, 2018

[First Draft Report](#)

### Second Draft

- **Public Comment Closing Date:** May 9, 2018
- **Second Draft Report Posting Date:** January 14, 2019

[Second Draft Report](#)
In The Works At NFPA

- NFPA 1300 Standard on Community Risk Assessment and Community Risk Reduction Plan Development
- Digital CRA tool
- CRR white paper
  
- Other codes and standards
- Data & Analytics
- Public Education programs
- Wildland Fire Protection
- Fire Protection Research Foundation
Where you can find us in 2019

• Colorado Risk Reduction Network – Conference of the Rockies | Estes Park, CO | Apr 23-25
• Congressional Fire Services Institute | Washington, D.C. | Apr 24-25
• NFPA Conference & Expo | San Antonio, TX | June 17-20
• Fire-Rescue International | Atlanta, GA | Aug. 7-10
Links & Addresses

• nfpa.org/1300 to check out the new standards

• data.nfpa.org to sign up for National Fire Data System

• crr@nfpa.org to get info on CRA pilot program and for all your NFPA CRR needs