Being a Floodplain Administrator

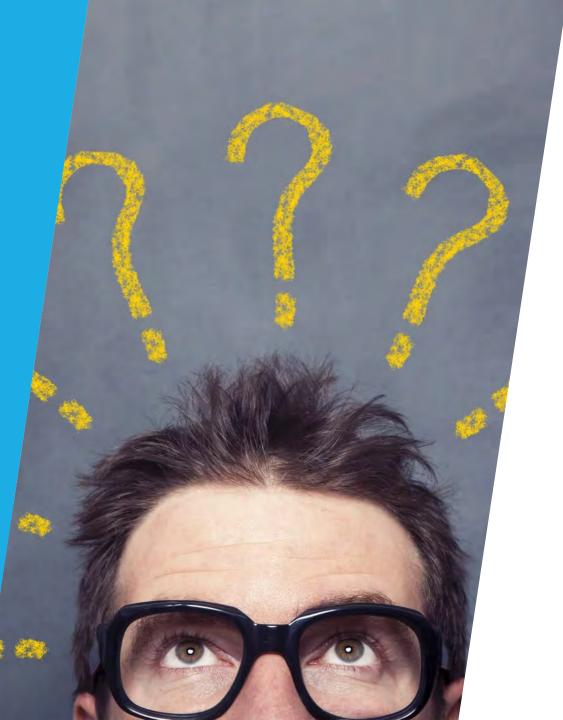
DCR's Flood Hazard Management Program



While we're waiting, please enter your name & community in the chat. And if you are a CFM please note this if you want credit for the course.

This course

- Welcome!
- This course is primarily for new Floodplain Administrators (FPAs) and is a refresher for others.
- If you are already a Certified Floodplain Manager (CFM) you may receive 2 CECs from ASFPM as long as you attend the full 2 hours and answer every quiz question throughout the entire class.
- ▶ A link to the PDF of this slide deck will be placed in the chat before we begin. You may download this and use for your note-taking.
- ➤ You are welcome to put your questions in the chat- we will try to answer them as we go, and we'll also be available after the session for more conversation if desired. Our contact information will be offered at the end of the session.



Ask questions please

This class is interactive throughout.

Class content

- ► Floodplain and the NFIP
- Who should be the community's FPA?
- ► FPA role as coordinator
- ► FEMA flood maps
- Local implementation of NFIP requirements
- Permitting & documentation
- Compliance & variances
- Letters of Map Revision
- Submitting technical data



! WARNING ACRONYMS AHEAD

Some acronyms

- FPA = Floodplain Administrator
- NFIP = National Flood Insurance Program
- ► FEMA = Federal Emergency
 Management Agency
- MSC = Map Service Center
- SFHA = Special Flood Hazard Area (1%-chance floodplain)
- WPA = Wetlands Protection Act (MA)
- LOMR = Letter of Map Revision

Flood Plain or Floodplain?

But NOT flood plane...



- Cambridge English Dictionary: an area of low, flat land near a river that often floods when the level of the river rises and flows over its sides
- MA Wetlands Protection Act does not define 'floodplain.'
- MA State Building Code uses this definition by reference (ASCE 24-14): "Any land area, including watercourse, susceptible to partial or complete inundation by water from any source."
- ▶ 44CFR 59.1: Flood plain or flood-prone area means any land area susceptible to being inundated by water from any source
- ► FEMA defines the <u>regulatory</u> floodplain as the "Special Flood Hazard Area": Land in the floodplain subject to a 1% or greater chance of flooding in any given year; area delineated on the Flood Insurance Rate Map as Zone A, AE, A1-30, A99, AR, AO, AH, V, VO, VE, or V1-30.



Quiz 1.

The Cambridge English Dictionary defines 'floodplain' as an area of low, flat land near a river that often floods when the level of the river rises and flows over its sides.

In a few general words, what kind of floodplain does this definition not include?



About the NFIP

- Enacted by Congress in 1968
- Most MA communities joined in the early 1970's by agreeing to implement the regulations through local enforcement.
- FEMA has the authority to enroll and suspend communities.
- ► Each state has a FEMA agreement to assist local communities in implementation.

Why an FPA?

From Title 44 of the Code of Federal Regulations, section 59.22:

The community "shall legislatively...

► (1) Appoint or designate the agency or official with the responsibility, authority, and means to implement the commitments made in paragraph (a) of this section...



Who can be designated as the FPA?

- anyone with the responsibility, authority, and means to locally coordinate implementation of the NFIP
- someone who has at least a general concept of NFIP requirements
- no specifications regarding who can be your FPA as long as they are...

Someone with local authority to coordinate floodplain management

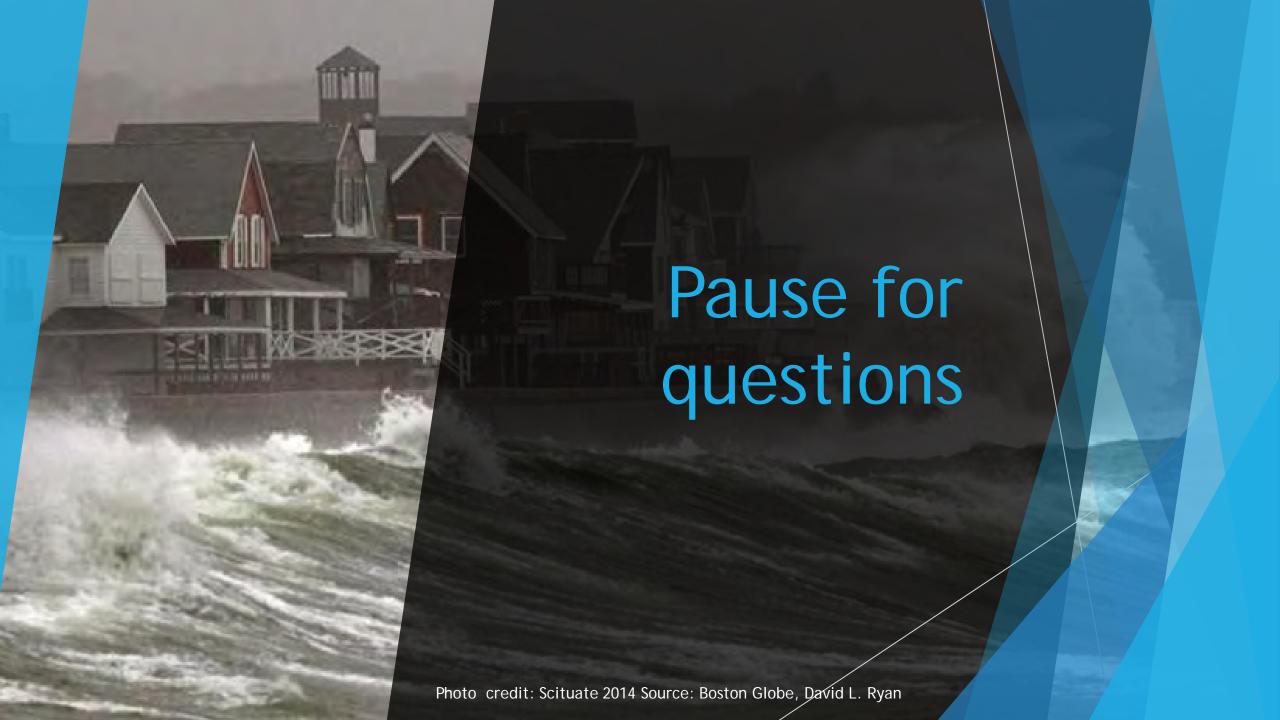


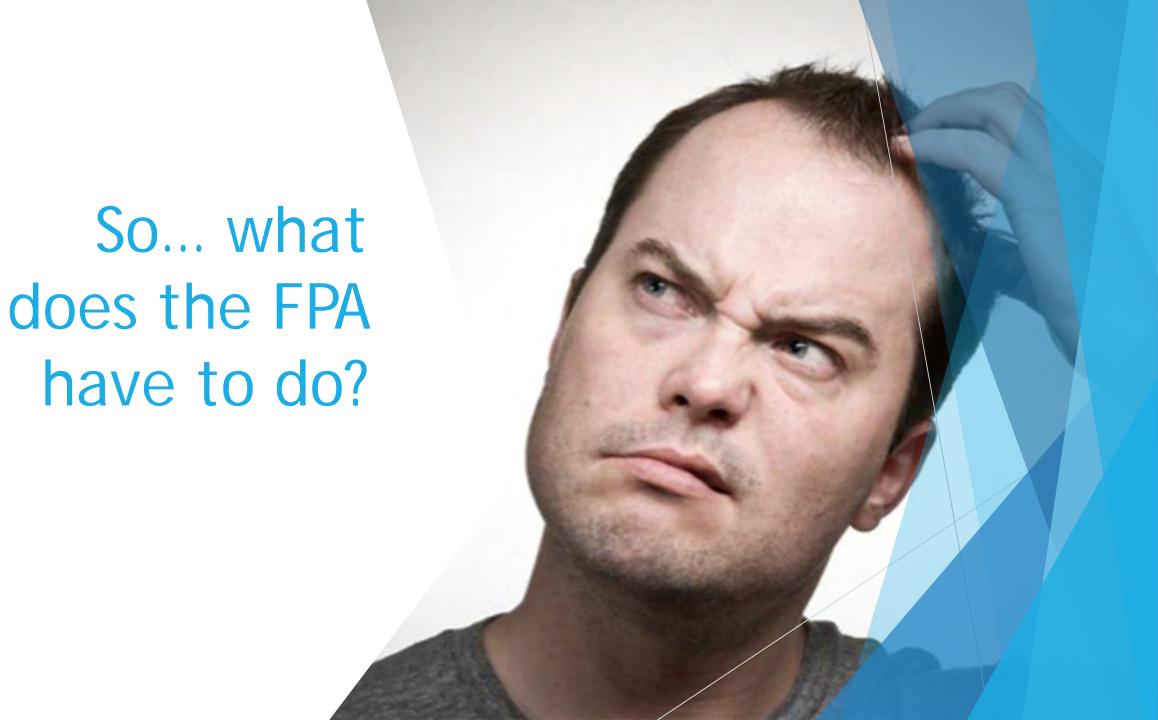


Quiz 2.

True or false:

A town planner cannot be a floodplain administrator.



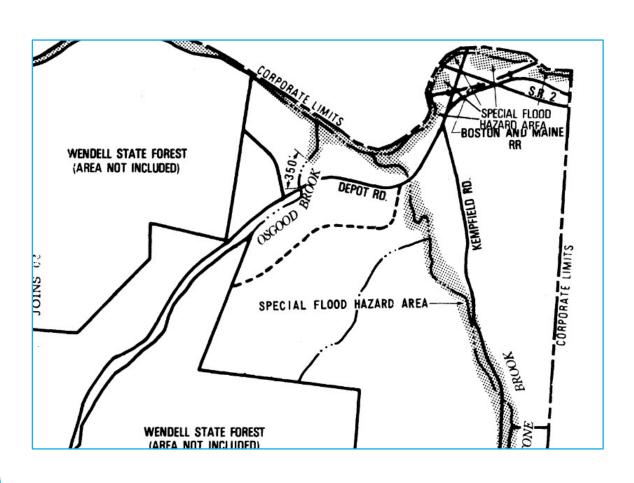




Make sure all the pieces are on the table...

- A. Referencing FEMA flood maps
- B. Local coordination for best floodplain management practices
- c. Locally enforceable regulations for floodplain development
- D. Compliance & variances
- E. Permitting & documentation
- F. Letters of Map Revision
- G. Submitting technical data to FEMA

A. Referencing FEMA flood maps



- In local bylaws
- On behalf of the public
- For enforcement & compliance

Referencing FEMA flood maps in local bylaws

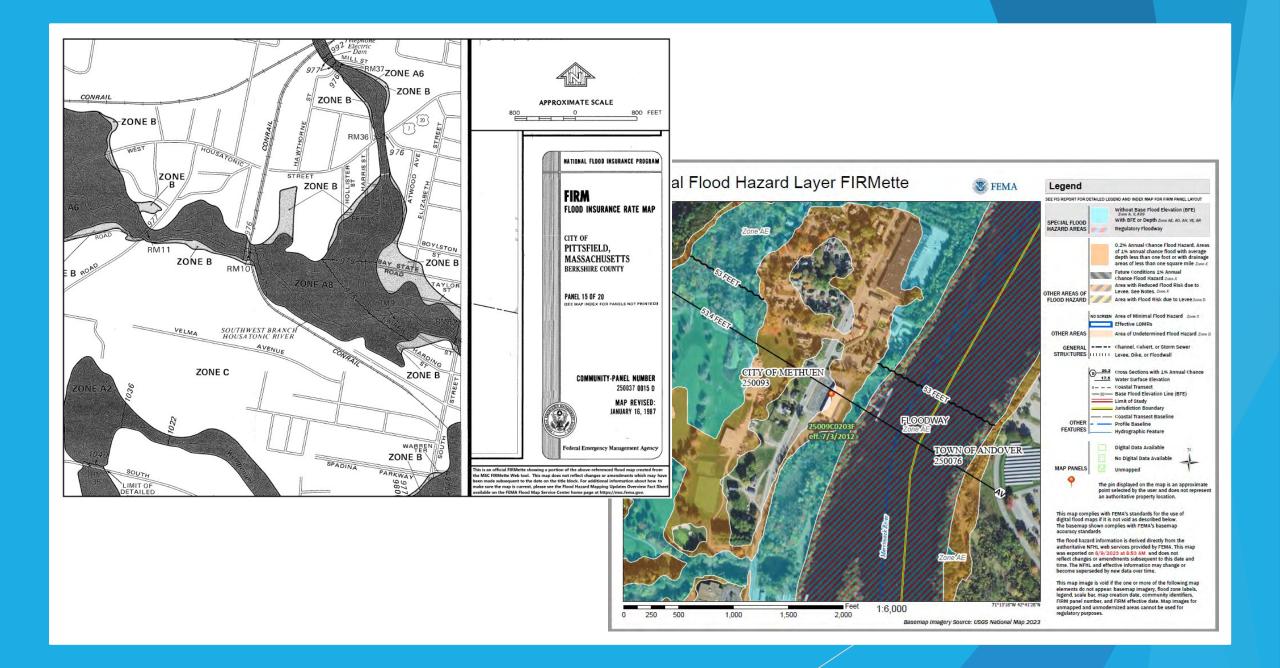
Already in your local bylaws Looks something like this:

> The Floodplain District is herein established as an overlay district. The District includes all special flood hazard areas within [Community Name] designated as Zone A, AE, AH, AO, A99, V, or VE on the [County Name] Flood Insurance Rate Map (FIRM) dated [FIRM date] issued by the Federal Emergency Management Agency (FEMA) for the administration of the National Flood Insurance Program. The exact boundaries of the District shall be defined by the 1%-chance base flood elevations shown on the FIRM and further defined by the [County Name] Flood Insurance Study (FIS) report dated [FIS date]. The FIRM and FIS report are incorporated herein by reference and are on file with the Town Clerk, Planning Board, Building Official, Conservation Commission and [other].

Referencing FEMA flood maps on behalf of your public

FEMA no longer prints out maps for the community. The FIRMs and other FEMA map products are available here:

https://msc.fema.gov/portal/home



Making maps available to the public

- Printed copies-- public library, building department, planning department
- Online MSC- at a computer (library, special setting in a community office)
- Town website link to the MSC



Referencing FEMA flood maps for enforcement & compliance

State building code flood-resistant standards for development in the SFHA

Building department

Wetlands Protection Act for conservation commission approved activities in the BLSF or LSCSF

Conservation Commission/ Conservation Agent

Title V septic and sewer

Board of Health, Title V, 310 CMR 15

Pause for questions





Quiz 3.

True or false:

The community's designated FPA is all on their own to figure out floodplain management and FEMA maps.

B. Local coordination for best floodplain management practices

The NFIP definition of development means "any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials.[44CFR 59.1]

- Buildings and other structures
- Mining or dredging
- Filling
- Grading, paving
- Excavation or drilling
- Storage of equipment or materials





C. Locally enforceable regulations for floodplain development

- Local Zoning Regulations
 - ► Local Zoning Enforcement Officer
- State building code floodresistant standards for development in the SFHA
 - Building department/ building official
- Wetlands Protection Act
 - Conservation Commission/ conservation agent
- ► Title V septic and sewer
 - Board of Health/ chairperson



Quiz 4.

An effective local FPA will coordinate with:

- a) The building official
- b) The conservation agent
- c) FEMA and the state
- d) All the above

Pause for questions



Houston, one month after Hurricane Harvey. Photo credit: Chicago Tribune

E. Permitting

- Permit for building or conservation?
- Floodplain development permit?
- Other permits required (state or federal)? Such as:
 - MA DEP Chapter 91 for docks, seawalls, bridges, fill, dredging and more
 - EPA Clean Water Act for water quality/ stormwater impacts (NPDES)
 - ► US Army Corps Section 404 permit for dredging or filling

		SECTION	III : (Forms v	hich may be requir	ed by the Floodplain	Administrator)
		ELEVATION O	CERTIFICATE			
		☐ Attached -	submit only if requ	ired to do so by the Flood	olain Administrator	
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	FLOOD INFORMAT					ĺ
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Address		Subdivision				
	20100	Legal Description	(Attach to this d	ocument)		
CITY OF BEVE	TOLV	OFFICE	USE ONLY		□ NO	
FLOODPLAIN DEVELOP	THE PART OF TAXABLE	Date Receive				
APPLICATION F		File Numb			4 6 6 1	
	- 44.7				utilities, be elevated	
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No work of any kind may begin in a floodplai	in area designated as A	A, AO, AH, AE, A99,	VE or V until a		□ NAVD 88	
floodplain development permit is issued.	ructure: \$					
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The development may not be used or occupie		f Compliance is issue	ed.	ition or alteration to a		Date
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The permit will not be issued until any other i				e treated as a substantially ubmit owner and	is, floodproofing	
By signing and submitting this application, the Administrator or his/her representative to male				its. A relocated structure construction.		
Certificate of Compliance.	and the second	and the state of t		111111111111111111111111111111111111111		Date
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Applicant:	Notes:			trator for review		
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ature of applicant listed above						
	7					

E. Documentation

What documentation is required?Some examples include:

As-built certification of finished elevation of new construction or Elevation Certificate for Finished Construction

Notice of Intent

Order of Condition(s) compliance

Certification for engineered openings

Dry-floodproofing certification for non-residential construction

 Documentation of substantial improvement or substantial damage (yes or no)

V-zone foundation engineering certification



Quiz 5.

True or false:

If the building official denies a permit for floodplain development, the applicant can get a variance from the Conservation Commission.





Pause for questions

D. Compliance & variances

The same local officials listed in the previous slide are responsible for local compliance with the regulations.

- With minor exception, MA communities follow one of these 2 variance procedures:
 - ► For a variance to the state building code, applicants must file with the state Building Code Appeals Board.
 - ➤ For a variance to the local zoning code, the code itself contains information about the process. For a variance to local floodplain management requirements, the local code should contain something like this text:
 - ▶ A variance from these floodplain bylaws must meet the requirements set out by State law and may only be granted if: 1) Good and sufficient cause and exceptional non-financial hardship exist; 2) the variance will not result in additional threats to public safety, extraordinary public expense, or fraud or victimization of the public; and 3) the variance is the minimum action necessary to afford relief.

Quiz 6.

True or False:

The variance process for building code permits and for local zoning is the same under the NFIP.





Pause for questions

F. Letters of Map Change (LOMC)

- Letter of Map Amendment (LOMA)
- Letter of Map Revision (LOMR)
- Letter of Map Revision based on Fill (LOMR-F)
- Conditional Letter of Map Revision based on Fill (CLOMR-F)

Da Zoom out (Ctrl+Minus)

Case No.: 22-01-0707A



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL)

D MAP PANEL INFORMATION		LEGAL PROPERTY DESCRIPTION				
OF FALL RIVER, BRISTOL NTY, MASSACHUSETTS		Lot 9, as described in the Quit Claim Deed Deed recorded as Doc No. 201500019391, in Book 08833, Pages 200, 201, and 202, in the Office of the Register of Deeds, Bristol County, Massachusetts This determination is based on LiDAR topographic data showing the elevation of the subject. The elevation data that were used are not support to the subject.				
NO.: 25	0055	certified by a Lice	ensed Land S	Surveyor or Profe	essional Engineer,	
95C043	2F	to change if more	e detailed dat	a becomes avai		
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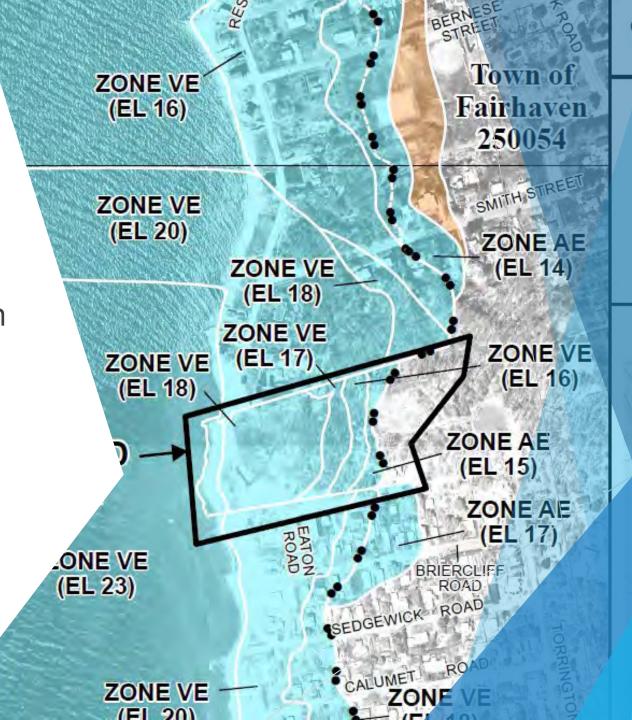
y given year (base flood)

NAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional consideration)

S REMAIN IN THE SFHA

Letter of Map Revision

- Applicant proposes to change the FEMA 1%-chance floodplain by either raising/lowering the flood level or by extending/decreasing it
- The applicant must provide supporting engineering/ technical data for community and FEMA review.



EPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY COMMUNITY ACKNOWLEDGMENT FORM

O.M.B. NO. 1660-0015 Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

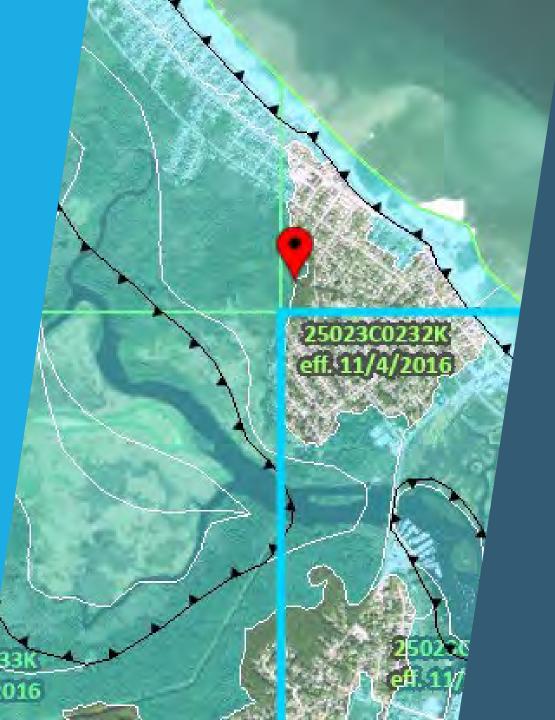
ng burden for this data collection is estimated to average 1.38 hours per response. The burden estimate includes the time for reviewing instructions, sting data sources, gathering and maintaining the needed data, and completing and submitting the form. This collection is required to obtain or retain u are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, rgency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0015). NOTE: Do not send your form to this address.

ist be completed for requests involving the existing or proposed placement of fill (complete Section A) OR to provide acknowledgment of this request to

must be completed and signed by the official respo	ted within the regulatory floodway (complete Section B). onsible for floodplain management in the community. The six and below. Incomplete submissions will result in processing d				
unity Number:	Property Name or Address:				
QUESTS INVOLVING THE PLACEMENT OF FILL					
sion Based on Fill (LOMR-F) or Conditional LOMR- ets or is designed to meet all of the community flou ulatory floodway, and that all necessary Federal, St r Conditional LOMR-F requests, the applicant has or anditional LOMR-F determination. For LOMR-F reque dependently of FEMA's process. Section 9 of the ESA n endangered species, a permit is required from U.S. or actions authorized, funded, or being carried out by Section 7(a)(2) of the ESA will be submitted. In addition from the SFHA are or will be reasonably safe from flood	anagement, I hereby acknowledge that we have receive frequest. Based upon the community's review, we fin odplain management requirements, including the requitate, and local permits have been, or in the case of a Conwill document Endangered Species Act (ESA) compliantsts, I acknowledge that compliance with Sections 9 and a prohibits anyone from "taking" or harming an endang Fish and Wildlife Service or National Marine Fisheries Syrederal or State agencies, documentation from the aging we have determined that the land and any existing or ding as defined in 44CFR 65.2(c), and that we have available of the control of the service of	d the completed or proposed projectivement that no fill be placed in the moditional LOMR-F, will be obtained, use to FEMA prior to issuance of the d 10 of the ESA has been achieved tered species. If an action might have under Section 10 of the ESA gency showing its compliance with or proposed structures to be remisilable upon request by DHS-FEM			
Community Official's Name and Title: (Please Print or	Туре)	Telephone No.:			
Community Name:	Community Official's Signature: (required)	Date:			
B. PROPERTY LOCATED WITHIN THE REGULATORY FL	OODWAY				
OMA. We understand that this request is being forw regulatory floodway. We acknowledge that no fill on the control of the cont	nanagement, I hereby acknowledge that we have receiv arded to DHS-FEMA to determine if this property has b this property has been or will be placed within the desi esigned to meet all of the community floodplain manag	een inadvertently includ gnated regulatory flood			
Community Official's Name and Title: (Please Print or	Туре)	Telephone No.:			
Community Name:	Community Official's Signature (required):	Date:			

The Community Acknowledgment Form

- If fill or the regulatory floodway is involved, the community must approve or express concerns (regarding the request) over signature.
- Applicant then submits the request package (including community acknowledgment form and signature) to FEMA for ultimate approval before development activity begins.
- This is often a LOMR-F: Letter of Map Revision based upon Fill.
- Local Conservation Commission is typically involved.



Quiz 7.

Which of the following Letters of Map Change is not a FEMA LOMC process?

- a. Letter of Map Amendment
- b. Letter of Map Revision based on Fill
- c. Letter of Technical Data
- d. Conditional Letter of Map Revision based on Fill



G. Submitting technical data to FEMA

Water course alterations

- Adjacent Communities, especially upstream and downstream
- Bordering States, if affected
- State NFIP Coordinating office
- ► FEMA Regional offices

New technical data

- State NFIP Coordinating office
- ► FEMA Regional offices



Questions???

From MA MyCoast Storm Report: Reservation Terrace, Newburyport. Substantial damage from 1/16- 1/17/22 nor'easter.

Erosion of foundation.

Quiz 8.

- The local Floodplain Administrator must be able to work effectively with many other community officials. Whom might this include?
 - a. DPW Director or Highway Superintendent
 - b. Building Official or Inspector
 - c. Conservation Agent
 - d. Planning Board
 - e. FEMA Regional staff
 - f. State NFIP staff
 - g. All of the above.





MA DCR Flood Hazard Management Program contacts

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Joy Duperault, CFM, State NFIP Coordinator, Program Director

857-286-0326 or joy.duperault@mass.gov