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CRS 600 Series: Warning and Response

The 600 series of activities within the Community Rating System (CRS) is focused on linkages between a community's emergency management mission and its voluntary CRS activities. These credited activities focus on the life safety aspect of a community's floodplain management program, particularly its emergency management flood warning programs, and can result in additional CRS discounts for your citizens. For more information:

http://www.youtube.com/watch?v=R_UiWz2Ogu8 = Link to 'YouTube' webinar 'CRS: Credits
for Flood Warning.'

Catalyst of Change. Even though flood preparedness and response operations frequently rest within the purview of the community's (or county's) emergency management office, the <u>emergency manager's role</u> in advancing public safety, property protection, and disaster resiliency and sustainability through the National Flood Insurance Program and the CRS is sometimes overlooked by the community. The community CRS Coordinator typically coordinates with the county or community emergency management staff to document activities that are credited under the 600 Series. The daily emergency management mission of prevention, preparedness, response, recovery, and mitigation can successfully be integrated with the CRS. Activities 610, 620 and 630 evaluate the community emergency management program in regard to flood warning, levees and dams.

Background. Activities under the 600 Series encourage and promote the development and use of community-based flood detection systems, warning dissemination programs, coordinated flood response activities, and critical facility planning. These are the activities that help reduce the threat to life safety, health, and property damage. The emergency manager is the identified catalyst of this effort.

Three activities make up the 600 Series. Activity 610 (Flood Warning and Response) forms the building block of the series, because all communities must have these basic services. Activity 620 (Levees) and Activity 630 (Dams) are for more specific threats that are not present in every community, namely levees and dams. All three activities are organized in a similar fashion, with pertinent credit criteria, and require some actions for

- Advance notification of an impending flood (threat recognition);
- Warnings issued to the threatened population (warning);
- Steps taken to protect life and reduce losses (operations), and;
- Coordination with critical facilities (critical facilities planning).

All three activities have a public information prerequisite to educate residents and businesses concerning safety measures before, during, and after a flood. All three activities require the annual completion of a drill, a flood exercise, or documentation of an actual response to an emergency. The latter also requires the submittal of an after-action report or lessons-learned document, including any recommendations for changes to the adopted plan. A flood, levee failure, dam failure, or hurricane exercise qualifies as an exercise for all three activities.

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Focus of this checklist. Activity 610 (Flood Warning and Response) is based on the principle that an ample warning combined with a flood response plan can prevent loss of life and property damage. It also encourages the development and documentation of more flood warning capabilities, redundancies in the acquisition and dissemination of hydrologic warning, greater accuracy in forecasting flood arrival times and peak elevations, and enhanced flood contingency planning that involves critical facilities.

The possible 395 points found within the five elements of Activity 610 are the building blocks of every community's emergency management program.

- Flood threat recognition system (FTR) is aimed at determining the capability level of the community's FTR system or systems. (75 points)
- Emergency warning dissemination (EWD) looks at the linkages between FTR and the community's response to the emergency. (75 points)
- Flood response operations (FRO) credit is based on the extent and level of the community's flood warning and response operations. (115 points)
- Critical facilities planning (CFP) considers the coordination between the community and critical facilities within its environs. (75 points)
- StormReady community (SRC) (25 points) and TsunamiReady community (TRC) (30 points) credits a community's participation in the National Weather Service's StormReady and TsunamiReady programs.

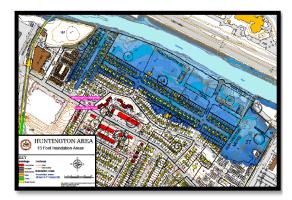
The community must receive some credit in the first four elements in order to receive any credit under Activity 610. For more details, refer to the 2013 CRS Coordinator's Manual.

The Corner Stones of Activity 610.

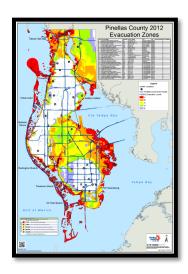
The community <u>must</u> have a program that correlates its flood threat recognition system, flood inundation map(s) and its adopted flood warning response plan. (This requirement is a basic component of any community emergency management program.) When preparing your documentation, provide a copy of the flood inundation map, flood stage forecast map, or storm surge map (showing multiple levels of inundation) which depicts your community's flood threat. Such maps are used for multiple planning purposes by emergency management and must be addressed in the adopted flood warning response plan, CEMP, EOP, etc. These documents are logically tied into whatever flood threat recognition system provides early notice of a flood to your community, such as river gages, ALERT systems, tidal gages, SLOSH modeling, etc.

Riverine flood threats and coastal storm surge zones are based upon different mapping formats and processes, but both indicate the flood threat areas. Examples of both are depicted below.

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Riverine flood inundation map



The adopted flood response plan (by whatever name), slosh generated evacuation map must discuss the actions taken by the community at

each level of inundation. In large counties, there may not be detailed mapping and flood warning planning for the entire Special Flood Hazard Area. In such cases, some counties designate the entire 1% chance flood level as the initial area to be notified by EAS and other flood alerts and have detailed multilayered flood levels only in the populated areas as is shown in the riverine flood inundation map above. If the flood threat recognition system and flood response plan utilize such a scenario, it can be considered as a creditable flood warning and response system.

Additionally, for any Activity 610 credit, the community <u>must</u> have one or more outreach projects on the warning and safety precautions and there <u>must</u> be an annual exercise of the plan with a lessons-learned report. These activity credit criteria are discussed on pages 610-4 and 610-5 of the CRS Coordinator's Manual.

If you have any questions concerning the following checklist, please contact Al Goodman at Al@awgconsulting.comcastbiz.net or by phone at 769-251-5356.

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The community reports with its documentation checklist:

- The community is affected by overbank flooding on two streams and surge from tropical storms. An evacuation map (SLOSH product) is used in all of the coastal areas, but there are no gages or an associated warning and response program for one of the streams. There are 400 structures in the coastal high hazard area and 50 structures within the riverine floodplain. The program covers all 400 coastal structures, but only covers 25 of the riverine structures. The bSF is 450. There are 425 structures which are covered by the flood threat recognition system, 425 structures which are covered by flood emergency warnings and 450 which are covered by flood response operations.
- The number of buildings that benefit from the level of flood threat recognition system is 425. FTR= 75, bFTR = 425.
- The number of buildings that benefit from flood emergency warnings is 425. **EWD** = **70**, **bEWD** = **425**.
- The number of buildings in the area covered by the flood response operations is 450. **FRO** = **75**, **bFRO** = **450**.
- There are four critical facilities in the community, all of which are located in their warning and response program areas. CFP 1 = 25.
- The community is a StormReady Community. **SRC** = 25.

Example Scenario: The community has a flood warning and response program that covers 425 of 450 buildings in the SFHA. An automated flood warning system (Level 3) is used by the community. The EOC uses pre-scripted messages and staff guidance, they have an outdoor siren system, the plan identifies various departments responsible for portions of the planned response, a telephonic warning and notification system is used, they have a cable TV override system and a GIS based emergency notification system available to alert citizen subscribers by three means of notification. The flood response operations plan has assigned staff tasks, response actions keyed to specific flood levels shown on its flood inundation map, an estimated staff needed requirement, the estimated equipment and supplies needed and a well thought out response and recovery plan. There are four critical facilities identified which can be affected by flooding, with the contact information of the POCs provided. The NWS has awarded its StormReady Community designation to the community and listed the community on its StormReady website.

FTR = 75 rFTR =
$$\frac{bFTR}{bSF} = \frac{425}{450} = 0.94$$

EWD = 70 rEWD = $\frac{bEWD}{bSF} = \frac{425}{450} = 0.94$
FRO = 75 rFRO = $\frac{bFRO}{bSF} = \frac{450}{450} = 1.00$
CFP 1 = 25 CFP 2 = 0
SRC = 25
TRC = 0
 $c610 = (FTR \times rFTR) + (EWD \times rEWD) + (FRO \times rFRO) + CFP + SRC + TRC$
 $c610 = (75 \times 0.94) + (70 \times 0.94) + (75 \times 1.0) + 25 + 25 + 0 = 261.3 = 261$ (rounded)

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A -4114.	v C40 /Flood Mouning 9	Page and a large a	ration Chapteliat
<u></u>	y 610 (Flood Warning &	· <u> </u>	
NEV	W APPLICATION	DIFICATION	DOCUMENTATION
Provide th	nis checklist and the following for e	each item checked:	
\Box (1)	A CD with the documents. Note the	e file name and the appropriate pa	ges and section numbers, or
	The URL for on-line documents wi	ith the appropriate pages and secti	on numbers noted here, or
\square (3)	A paper copy of the documents wit	th the appropriate acronym marked	d in the margin.
	A copy or URL link to the Compre Plan, or similar plan through which		
` '	If the community is included in and urisdictional flood warning program	1	nplements a multi-
	(a) A copy of a resolution or more responsibilities must be include	emorandum of agreement that speed, or	cifies the community's
	(1) A () (C (1 1)	, , , ,	• • • • • • • • • • • • • • • • • • • •
	program designee must be subrelements that are undertaken by	cant community's Emergency Ma mitted which lists those flood warr by the applicant community and the action on behalf of the applicant co	ning and response activity ose activities that are
	program designee must be subrelements that are undertaken by	mitted which lists those flood warr y the applicant community and tho	ning and response activity use activities that are
Name	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity use activities that are
	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity use activities that are
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Title	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity use activities that are
Name Title Address	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity use activities that are
Title Address	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity ose activities that are
Title Address Phone	program designee must be submelements that are undertaken by undertaken by the other jurisdic	mitted which lists those flood warr y the applicant community and the ction on behalf of the applicant co	ning and response activity ose activities that are
Title Address Phone E-mail	program designee must be submelements that are undertaken by undertaken by the other jurisdic	ction on behalf of the applicant co	ning and response activity ose activities that are

CID:	Community:	Co:	State:
on	ase provide the four totals requested below. the number of buildings affected by the elem ntifying the area affected and then counting t	ent. Determining these adjustm	•
	(1) Number of buildings in the community Coordinator has this number in the Programmer (1) and the community of the Coordinator has the	-	
	(2) Number of buildings in the floodplain to	hat are covered by the flood thre	eat recognition system.
	(3) Number of buildings in the floodplain to	hat are covered by the flood eme	ergency warnings.
	(4) Number of buildings in the floodplain to	hat are covered by the flood resp	oonse operations.
Ac	ctivity Credit Criteria and Docum	nentation	
	edit criteria for this activity are described ordinator's Manual.	in more detail in Section 611	.b of the CRS
(1)	The community <u>must</u> obtain <u>some</u> credit flood threat recognition system (FTR), e response operations (FRO) and critical factivity.	emergency warning dissemina	ntion (EWD), flood
(2)	The community must have a description the community's floodplain management include information about		1 0
	☐ The nature of the community's flood historical flood problems, and special	· · · · · · · · · · · · · · · · · · ·	, velocities, warning times,
	[See Attachment		ges]
	The development exposed to flooding (residential, agricultural, open space areas.		
	[See Attachment	Pag	es]
	☐ The expected impacts of flooding or and utility services, and the potential		y functions, such as police
	[See Attachment		res]
(3)	The community must have a flood inunc	lation map(s), also known as	a flood stage forecast map.
	☐ The inundation map must show area storm surge levels in coastal zones a	<u>•</u>	

CID: _	Community:	Co:	State:
	[See Attachment	Pages	J
	The community must have a flood warning and responses been adopted by the community's governing body	-	to a CEMP that
For	the community's own plan:		
]	Describe the methods and warning devices used to general public that are credited under EWD. [See Attachment		-
	Include specific flood response actions that are tal credited under FRO. The FTR system must be con [See Attachment	related to the flood inur	ndation map.
	For full credit for flood response operations, the plant (a) Describe the actions to be taken,	n needs to [Pages	.7
	(b) Identify the office or official responsible for the	action, [Pages]
	(c) Define the time needed to carry out the activity,	and [Pages	J
	Contain other critical information that designated ag to perform their assigned responsibilities. [Pages _		
1	Be adopted by the community's governing body or authority by the community's governing body. If the it must be adopted by the individual community see [See Attachment	e plan is prepared at the king credit.	county/parish level,
TC /1	OR		
	e community is included in another jurisdiction's plan (d warning program), then:	which implements a mul	tı-jurisdictional
	A copy of a resolution or memorandum of agreeme responsibilities must be included, or	ent that specifies the com	munity's
	[See Attachment	Pages	J
	A statement from the applicant community's Emer program designee must be submitted which lists the elements that are undertaken by the applicant commundertaken by the jurisdiction on behalf of the applead [See Attachment]	ose flood warning and re nunity and those activitie icant community.	esponse activity es that are
1	The community must implement one or more outreach businesses how they will be warned and the safety me This can be done by using one or more of the following proach used):	easures they should take	during a flood.
	Sending an outreach project (e.g., a brochur residents and businesses in the community.	e, letter, or newsletter) ea	ach year to all
610	Documentation Checklist 7		August 2014

Sending an outreach project each year to all rewhere the warning program is in effect.	esidents and businesses in the	floodplain
Developing an appropriate approach as part o	f a Program for Public Inform	nation (PPI).
If the community has at least three days of ad areas subject only to tropical storms and hurricand document that it provides repeated watch, warning and businesses, beginning at least 72 hours in adv	es or communities on large riv g, and safety information to a	vers, it may ll residents
A community with more than one source of fineed to use different types of projects to reach different types of projects to reach different types.	- , -	ine) may
A copy of the outreach material used to tell people measures they should take.	how they will be warned and	d the safety
[See Attachment	Pages	.]
annotated to show where the Activity 610 outreach (6) There must be at least one exercise and evaluation of the year. The exercise can be for a flood, levee failure, darmet if implemented by an actual flood or threat of failurdrill, or response to an actual emergency or disaster response. The description must include a list of who participate recommendations for changes to the system. A copy of	ne flood warning and response failure, or hurricane. (Critere.) A description of the floopponse conducted during the pated, lessons learned, and a	erion can be od exercise, previous ny
report for any actual response is required. [See Attachment	Pages]
NOTE: If the community experienced a flood during the past year, it warning program's performance.	must submit an evaluation report	on the flood
Flood Threat Recognition System (FTR) Credit Criteria a	and Additional Documenta	tion
The maximum credit for this element is 75 points.		
(1) The activity credit criteria must be met.		
(2) The community must have a manual system, or an auto automated flood warning system that provides early no		

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of flooding, and in different locations in the community.

within the community. The system must be able to receive or provide flood warnings 24-hours a day, seven days a week. A community may have different levels of service for different sources

CID:		Community:	Co:	State:		
	 a. Provide a description of your community's flood threat recognition system (check used). Is the system A manual system (Level 1) which relies on a person to interpret the data receiriver and/or tide gages, often using paper tables and graphs. In many cases, the gas are collected and reported manually, usually by volunteers, or 					
		An automated flood alarm systhreatens. When water reaches a cemonitoring location. Unlike automated flood heights or provide any other designs.	rtain height on a river or tide gated flood warning systems, th	gage, an alarm is sent to the is system does not predict		
		An automated flood warning system (Level 3) which provides information such as the timing and potential crest of an oncoming flood. Typically these systems are operated by the NWS or USGS in riverine situations. In coastal areas, SLOSH models are used.				
		☐ The description must identify the rivers, streams, and coastal floodplains where flood stage forecasts are prepared and each forecast point.				
		☐ If the community has its own gage system, such as an ALERT system, the description must include the locations of the stream and precipitation gages.				
	Include documentation of early notice of a flood at one or more locations within the community. If appropriate, describe show how the community provides flood forecast areas other than the above forecast points.					
		[See Attachment		res]		
	□ Provide documentation that demonstrates that the community is prepared to receive flood warnings on a 24-hour basis from what federal, state, or other agencies. [See Attachment					
		Provide documentation showing the peak flow or elevations.	•			
		[See Attachment	Pages	.J		
		☐ If flood warnings are received from another agency, include				
		• A description of how the notice		1		

CID: _	Community:	Co:	State:
	instructions available to the pe	es for monitoring the system. [Increson monitoring the warning sys	stem.]
	☐ Provide examples of one or more f		the community.
	 If the community has its own gage maintenance procedures for the sy maintained. Provide documentation of the a communications, and data analysis. 	system, such as an ALERT syst	tem, a copy of the ne system is being of the data collection, reat recognition system.
` /	The flood threat recognition system memergency manager can see what area		1 ,
	An impact adjustment map showing showing how the numbers of build [See Attachment	• • • • • • • • • • • • • • • • • • • •	re determined.
Em	ergency Warning Dissemination (EV	WD) Credit Criteria and Addit	tional Documentation
The	maximum credit for this element is 75	points.	
(1)	The activity credit criteria must be me	ι.	
	The warning must reach people in a ting announcements are not credited in area.		
	For those warning systems requiring sprocedures must be tested at least annuagear, such as television notices and me	ually. Equipment that is used rou	itinely throughout the
	Copies of any written warning material credited under EWD 10. [See Attal		
	[For EWD1, 2, 5, 6, 7, or 8] A cop	y of the pre-scripted messages. [See Attachment]
	[For EWD3] The impact adjustme effective coverage areas. [See Atta		
	[For EWD6] A copy of the descripthe contract with a private provide	tion of a publicly owned call war. [See Attachment	arning system or a copy of

CID:	Community:	Co:	State:
	[For EWD7] A copy of the cable	•	dures. [See Attachment
	[For EWD8] A description of the of [See Attachment		of public notification.
	Describe the community's progra procedures. [Include the frequence		<u> </u>
(4)	EWD1 (10 points): Provide documentate response plan which specifies when an used. Provide a copy of the adopted per pre-scripted messages. [Include the with how, and what messages to issue.] Pages]	nd how a warning is issued and wolicy that specifies when and how ritten procedures that tell warning	what messages will be a warning is issued and g point personnel when,
(5)	EWD2 (10 points): Provide documentation instruction on the expected elevation of the [See Attachment	ne flood waters, and instructions on	when to evacuate.
(6)	EWD3 (10 points): If the community to disseminate flood warnings, provide coverage area where they can be heard [See Attachment	e a map showing the location of t d inside a closed building during	the sirens and the storm conditions.
(7) EWD4 (either 5 or 15points): Five p mobile public address system for floor procedures, responsible staff, and equivarning. [See Attachment	d warning or 15 points if the plan ipment necessary for door-to-doo	identifies the routes, or or mobile address
(8)	EWD5 (10 points): If the community Emergency Alert System, provide a comprocedures, and pre-scripted draft me <i>PagesJ</i>	copy of the community's activation	on policies,
(9)	EWD6 (15 points): If a telephonic sy documentation describing how and w warning residents when there is no te <i>PagesJ</i>	hen the system is updated, and it	s backup system for
(10	Used for public notification for emer Pages]		
(7)	EWD8 (10 points): Documentation of warnings. [See Attachment		

CID:	Community:	Co:	State:
ne ba	WD9 (10 points): If all schools, hosped flood warning have NOAA Weat ckup system for receiving flood war	her Radio receivers and at least	t one other automated
(11) I	EWD10 (10 points): If the flood inum	ndation map is posted online. U	JRL
Flood	Response Operations (FRO) Cred	lit Criteria and Additional Do	ocumentation
The m	aximum credit for this element is 11	5 points.	
(1) Th	e activity credit criteria must be met		
(2) Fo	r full credit for flood response opera	tions, the plan needs to:	
(a) _	Describe the actions to be taken;		
(b) _	Identify the office or official resp	oonsible for the action;	
(c) _	Define the time needed to carry of	out the activity, and;	
(d) _	in order to perform their assig	n that designated agencies and org ned responsibilities. General sta- cifics about what is to be done	atements or an assignment
su wl	onus credit is provided under FRO5 i pplies, and other resources needed to nat is available within the community risdictions. [See Attachment	o complete each task. For full cry and what is needed from priva	redit the list must identify ate suppliers or other
flo mo ac Pr	onus credit is provided under FRO6 to od loss mitigation measures on comeasures on private properties. This stivities credited under flood response ojects), which encourages owners to be attachment	munity properties, and promoti hould be coordinated with the perpentions (FRP) under Act take mitigation measures during	ing flood loss mitigation bublic information ivity 330 (Outreaching repairs.
tha	onus credit is provided under FRO7 fat support property protection, such a hicles, helping move building content	as providing a high-ground site	-
mi	ght develop at the different levels shapes		
otl	2O2 (2 points): If the plan identifies ther public and private organizations <i>ee Attachment</i>	with responsibilities related to	the flood tasks in the plan.

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(8)	FRO3 (28 points): If specific actions are inundation map. [See Attachment			
(9)	P) FRO4 (10 points): For maintaining a data base of people with functional/special needs who require evacuation assistance when a flood warning is issued and for having a plan to provide transportation to secure locations. [See Attachment			
(10	FRO5 (Up to 30 points): If the plan including supplies, and time required for each resp [See Attachment	onse task and the sources of n	ecessary resources.	
(11) FRO6 (Up to 15 points): If the plan inclean reoccupy their damaged homes and loss mitigation measures on community measures for private property. [See Attapages]	businesses, permit requirement properties, and promoting flo	nts, implementing flood ood loss mitigation	
(12) FRO7 (20 points): If the plan identifies could be carried out during response and pages]			
Cr	itical Facilities Planning (CFP) Credit (
The maximum credit for this element is 75 points.				
(1)	The activity credit criteria must be met.			
(2)	CFP1 is a prerequisite for any CFP credit within the Special Flood Hazard Area, you letterhead and the definition of critical fa	ou must submit such a stateme	ent on community	
(3)	For CFP1, the community's flood warnir critical in a flood. This can be in a separato flooding do not need to be addressed, critical situation. There may also be faciflood response effort (e.g., sandbag suppupdated at least annually. The commun need any special warning arrangements. warning to all critical facilities, only those	ate document or SOP. In general although in some cases loss of although in flood-free sites that an alters and shelters for evacuees ity must also contact the facility must also contact	eral, facilities not subject f access can cause a re needed to support the s). The list must be sties to determine if they	
(4)	CFP1 (Up to 25 points): The contact information phone numbers of the operators of all pure [See Attachment	blic and private critical faciliti	ies affected by flooding.	
(5)	Arrangements for special warnings or ea need advanced warning. [See Attachmen	rly notifications directly to the	ose critical facilities that pages]	

CID:	Community:	Co:	State:		
res be	FP2 (up to 50 points): If critical faci sponse plans have been developed, r prorated based upon the percentage see Attachment	eviewed, or accepted by the cor of affected critical facilities that	mmunity. The credit will at have creditable plans.		
needs needs devel	ch verification visit, a list of all pube ed to be operational during a flood, verified the provided. [For CFP2] The oped their own flood warning and re- community. The ISO/CRS Specialist	with the contact information and list of critical facilities marked esponse plans that have been re-	d agreed-upon warning to identify those that have viewed and accepted by		
StormReady Community (SRC):					
The m	The maximum credit for this element is 25 points. (1) The activity credit criteria must be met.				
(1) Th					
inc	(2) For SRC credit, the community is not required to provide documentation. SRC is documented by its inclusion on the NWS maintained list of designated "StormReady Community" members posted on its website. The community must be listed individually (by name) on the website.				
TsunamiReady Community (TRC):					
The m	aximum credit for this element is 30	points.			
(1) Th	e activity credit criteria must be met				
(2) Th	(2) The community must be designated as a TsunamiReady community by the NWS.				
	(3) The community must meet the CRS tsunami hazards mapping requirements identified in the publication <i>CRS Credit for Mitigation of Tsunami Hazards</i> .				
	Compliance with the mapping require Credit for Management of Tsunami Hee Attachment	azards, section 410TS.	·		
(4) Th	e community must have adopted a traitions the community is to take upon	sunami hazards operations plan			
	A copy of the adopted tsunami hazard take after a tsunami warning.				
	[See Attachment	pages	·J		