

CRS 600 Series: Warning and Response

The 600 series of activities within the National Flood Insurance Program's (NFIP) Community Rating System (CRS) is focused on linkages between a community's emergency management mission/program 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, the following Uniform Resource Locator/link is provided for the current Activity 610 webinar: <https://youtu.be/gbtsp4qBad8>

Catalyst of Change. *Even though flood preparedness and response operations primarily rest within the purview of the community's (or borough/county/parish) emergency management office, the emergency manager's role in advancing public safety, property protection, disaster resiliency and sustainability through the National Flood Insurance Program and the CRS is sometimes overlooked by the community. The community CRS Coordinator should liaise with the community emergency management staff, to properly document those activities that are eligible to receive credit 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 are designed to evaluate the community's emergency management program regarding 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 a flood related emergency. The latter also requires the submittal of an after-action report/improvement plan 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.

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 dissemination of flood warnings to the public. (75 points)
- Flood response operations (**FRO**) credit is based on the extent and level of the community’s specific tasks to reduce or prevent threats to health, safety and property. (115 points)
- Critical facilities planning (**CFP**) considers the coordination of flood warnings between the community and the operators of critical facilities within its environs. (75 points)
- StormReady community (**SR**) (25 points) and TsunamiReady community (**TR**) (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 to receive any credit under Activity 610, which emulates the standard preparedness cycle. For more details, refer to the 2017 *CRS Coordinator’s Manual*.

The Corner Stones of Activity 610 (Flood Warning and Response).

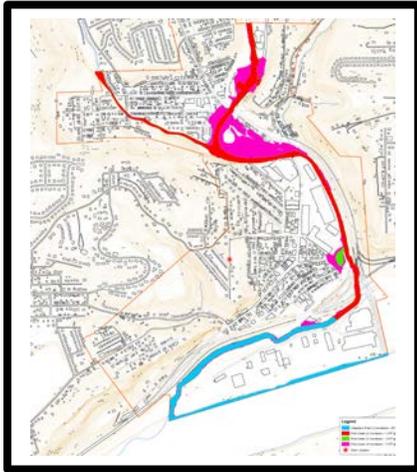
The community must have a program that correlates its flood threat recognition system, flood inundation map(s) and its adopted flood warning response plan. (This requirement is a basic component of any community emergency management program.) When preparing your documentation, provide a copy of the flood inundation map, flood stage forecast map, flash flood impact 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. (This map or maps are not the FEMA provided FIRMs, but can include them as additional levels of inundation.) They must be 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. Therefore, a flood threat recognition system, correlated with a flood inundation/flood stage forecast map and an adopted plan provides the required basis for Activity 610 credit.



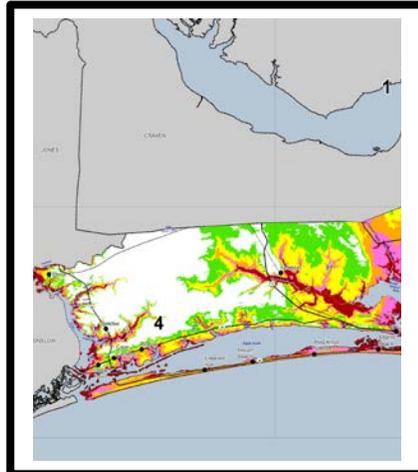
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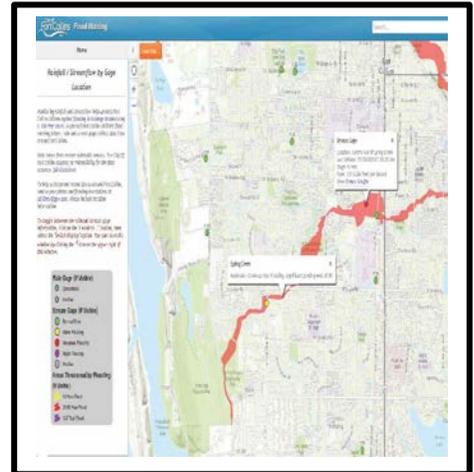
Riverine flood threats (three levels of inundation) and coastal storm surge zones (at least two levels of inundation) are based upon different mapping formats and processes, but both indicate the flood threat areas. In communities only inundated by flash flooding, impact area maps based on cubic feet per second alert levels, rainstorm thresholds or flow depths are acceptable. Examples of these are depicted below.



Riverine flood inundation map



SLOSH generated evacuation map



Flash flood impact area map

The adopted flood response plan (by whatever name), 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 these areas. 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 must have one or more outreach projects on the warning and safety precautions and there must be an annual exercise of the plan with a lessons-learned report. These activity credit criteria are discussed in Section 611.b. 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.

EXAMPLE SCENARIO: 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 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.**

The Activity 610 technical reviewer finds that 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 fixed siren system which covers the entire community, 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 notification 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/or listed the community on its StormReady website. The scoring sheet would reflect these computations:

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

$$EWD = 70 \quad rEWD = \frac{bEWD}{bSF} = \frac{425}{450} = 0.94$$

$$FRO = 75 \quad rFRO = \frac{bFRO}{bSF} = \frac{450}{450} = 1.00$$

$$CFP\ 1 = 25 \quad CFP\ 2 = 0$$

$$SRC = 25 \quad TRC = 0$$

$$c610 = (FTR \times rFTR) + (EWD \times rEWD) + (FRO \times rFRO) + CFP + SRC + TRC$$

$$c610 = (75 \times 0.94) + (70 \times 0.94) + (75 \times 1.0) + 25 + 25 + 0 = 261.3 = \mathbf{261} \text{ (rounded)}$$

Activity 610 (Flood Warning & Response) Documentation Checklist

Provide this checklist and the following for each item checked:

- (1) A CD with the documents. Note the file name and the appropriate pages and section numbers, or
- (2) The URL/link to on-line documents with the appropriate pages and section numbers noted here, or
- (3) A paper copy of the documents with the appropriate acronym marked in the margin.
- (4) A copy or URL/link to the Comprehensive Emergency Management Plan, Emergency Management Plan, or similar plan through which the community is applying for Activity 610 credit.
- (5) If the community is included in another jurisdiction's plan (which implements a multi-jurisdictional flood warning program), then:
 - (a) A copy of a resolution or memorandum of agreement that specifies the community's responsibilities must be included, or
 - (b) A statement from the applicant community's Emergency Manager or a similar community program designee must be submitted which lists those flood warning and response activity elements that are undertaken by the applicant community and those activities that are undertaken by the other jurisdiction on behalf of the applicant community.

	Emergency Manager	CRS Coordinator
Name		
Title		
Address		
Phone		
E-mail		

Completed By: _____

Title: _____

Date: _____

CID: _____ Community: _____ Co: _____ State: _____

Please provide the four totals requested below. The credit points for FTR, EWD and FRO are adjusted based on the number of buildings affected by the element. Determining these adjustments usually will require identifying the area affected and then counting the buildings within that area.

- (1) Number of buildings in the community's Special Flood Hazard Area. The Community CRS Coordinator has this number in the Program Data Table. _____
- (2) Number of buildings that are covered by the flood threat recognition system. _____
- (3) Number of buildings that are covered by community flood emergency warnings. _____
- (4) Number of buildings that are covered by community flood response operations. _____

Activity Credit Criteria and Documentation

Credit criteria for this activity are described in more detail in Section 611.b of the *CRS Coordinator's Manual*.

- (1) The community must obtain some credit in the first four flood warning and response sub-elements in flood threat recognition system (FTR), emergency warning dissemination (EWD), flood response operations (FRO) and critical facilities planning (CFP) to receive any credit under this activity. SRC/TRC credit is not assigned without credit in these four sub-elements.
- (2) The community must have a description of its flood hazard. This can be some pages taken from the community's adopted floodplain management or hazard mitigation plan. The description needs to include information about
 - The nature of the community's flood hazard, such as flood depths, velocities, warning times, historical flood problems and special flood-related hazards.
[See Attachment _____ Pages _____.]
 - The development exposed to flooding, such as the number and types of buildings; land use (residential, agricultural, open space, etc.), critical facilities and historic flood problem areas.
[See Attachment _____ Pages _____.]
 - An inventory of critical facilities and the expected impacts of flooding on health and safety, community functions, such as police and utility services and the potential for secondary hazards.
[See Attachment _____ Pages _____.]

(3) The community must have a flood inundation map(s), also known as a flood stage forecast map.

- The inundation map must show areas that are inundated by at least three different flood levels for each riverine area, two different flood or storm surge levels in coastal zones and/or a series of impact area maps for flash flooding.

[See Attachment _____ Pages _____.]

(4) The community must have a flood warning and response plan or flood annex to a CEMP that has been adopted by the community's governing body. The plan must:

(For the community's own "stand alone" plan):

- Describe the methods and warning devices used to disseminate emergency warnings to the public that are credited under EWD.

[See Attachment _____ Pages _____.]

- Include specific flood response actions that are taken at the different flood levels that are credited under FRO. The FTR system must be correlated to the flood inundation map.

[See Attachment _____ Pages _____.]

- For full credit for flood response operations, the plan needs to
 - (a) Describe the actions to be taken, [Pages _____.]
 - (b) Identify the office or official responsible for the action, [Pages _____.]
 - (c) Define the time needed to carry out the activity, and [Pages _____.]

- Contain other critical information that designated agencies and organizations will need to perform their assigned responsibilities. [Pages _____.]

- Be adopted by the community's governing body or by an office that has been delegated approval authority by the community's governing body. If the plan is prepared at the county/borough/parish level, it must be adopted by the individual community seeking credit.

[See Attachment _____ Pages _____.]

OR

(If the community is included in another jurisdiction's plan, which implements a multi-jurisdictional flood warning program, then):

- A copy of a resolution or memorandum of agreement that specifies the community's responsibilities must be included, or

[See Attachment _____ Pages _____.]

- A statement from the applicant community's Emergency Manager or a similar community program designee must be submitted which lists those flood warning and response activity elements that are undertaken by the applicant community and those activities that are undertaken by the jurisdiction on behalf of the applicant community.

[See Attachment _____ Pages _____.]

(5) The community must implement one or more outreach projects that tells its residents and businesses how they will be warned and the safety measures they should take during a flood. This can be done by using **one or more** of the following approaches (check or highlight approach used):

- Sending an outreach project (e.g., a brochure, letter, or newsletter) each year to all residents and businesses in the community.
- Sending an outreach project each year to all residents and businesses in the floodplain where the warning program is in effect.
- Developing an appropriate approach as part of a Program for Public Information (PPI).
- If the community has at least three days of advance flood notification, such as coastal areas subject only to tropical storms and hurricanes or communities on large rivers, it may document that it provides repeated watch, warning, and safety information to all residents and businesses, beginning at least 72 hours in advance of the predicated flooding.
- A community with more than one source of flooding (e.g. coastal and riverine) may need to use different types of projects to reach different audiences.

A copy of the outreach material used to tell people how they will be warned and the safety measures they should take.
[See Attachment _____ Pages _____.]

If the outreach material is also credited under Activity 330 (Outreach Projects), a separate submittal is not needed, if the other document (including a PPI, if used) is annotated to show where the Activity 610 outreach topics are covered.

(6) There must be at least one exercise and evaluation of the flood warning and response plan each year. The exercise can be for a flood, levee failure, dam failure, or hurricane. (Criterion can be met if implemented by an actual flood or threat of failure.) A description of the flood exercise, drill, or response to an actual emergency or flood disaster response conducted during the previous year. The description must include a list of who participated, lessons learned, and any recommendations for changes to the system. A copy of the after-action report/improvement plan or any similar report for any actual response is required.

[See Attachment _____ Pages _____.]

NOTE: If the community experienced a flood during the past year, it must submit an evaluation report on the flood warning program's performance.

Flood Threat Recognition System (FTR) Credit Criteria and Additional Documentation

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 automated flood alarm system or an automated flood warning system that provides early notice of a flood for at least one location 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 of flooding and in different locations in the community.

a. Provide a description of your community’s flood threat recognition system (please check the system used). Is the system:

A manual system (Level 1) which relies on a person to interpret the data received from river and/or tide gages, often using paper tables and graphs. In many cases, the gage data are collected and reported manually, usually by volunteers, or

An automated flood alarm system (Level 2) which issues a signal when a flood threatens. When water reaches a certain height on a river or tide gage, an alarm is sent to the monitoring location. Unlike automated flood warning systems, this system does not predict flood heights or provide any other data than the current water level, or

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 forecasts for areas other than the above forecast points.

[See Attachment _____ Pages _____.]

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 _____ Pages _____.]

CID: _____ Community: _____ Co: _____ State: _____

If the community or another local agency uses rainfall and/or runoff data on a real-time basis and makes flood forecasts from these data, provide a description of the system. *[Tell whether the collection system is based on precipitation and/or river gage data that are manually or automatically read and reported, the location gage network density, etc.]*
[See Attachment _____ Pages _____.]

Provide documentation showing the method used to predict downstream arrival time and peak flow or elevations.
[See Attachment _____ Pages _____.]

If flood warnings are received from another agency, include

- A description of how the notice is received.
[See Attachment _____ Pages _____.]

- Identify local agency procedures for monitoring the system. *[Include the written instructions available to the person monitoring the warning system.]*
[See Attachment _____ Pages _____.]

Provide examples of one or more flood forecast notices issued for the community.
[See Attachment _____ Pages _____.]

If the community has its own gage system, such as an ALERT system, a copy of the maintenance procedures for the system and records showing that the system is being maintained.

- Provide documentation of the annual maintenance and testing of the data collection, communications, and data analysis components of the flood threat recognition system.
[See Attachment _____ Pages _____.]

(3) The flood threat recognition system must be correlated to the flood inundation map, so that the emergency manager can see what areas will be affected by the predicted flood.

An impact adjustment map showing the area(s) affected by each element and documentation showing how the numbers of buildings used in the calculations were determined.
[See Attachment _____ Pages _____.]

Emergency Warning Dissemination (EWD) Credit Criteria and Additional Documentation

The maximum credit for this element is 75 points.

(1) The activity credit criteria must be met.

(2) The warning must reach people in a timely manner. For example, television or radio announcements are not credited in areas subject to flash flooding during the night.

(3) For those warning systems requiring specialized equipment, such as sirens, the equipment and procedures must be tested at least annually. Equipment that is used routinely throughout the year, such as television notices and message boards, do not need testing records for CRS credit.

Copies of any written warning materials, such as handouts or the flood inundation map credited under EWD 10. [See Attachment _____.]

[For EWD1, 2, 5, 6, 7, or 8] A copy of the pre-scripted messages. [See Attachment _____.]

[For EWD3] A map, showing the fixed siren locations and their effective coverage areas. [See Attachment _____.]

[For EWD6] A copy of the description of a publicly owned call warning system or a copy of the contract with a private provider. [See Attachment _____.]

[For EWD7] Documentation of the community owned cable channel or a copy of the cable TV agreement and override procedures. [See Attachment _____.]

[For EWD8] A description of the capability and use of other forms of public notification. [See Attachment _____.]

Describe the community's program for testing warning dissemination equipment and procedures. [Include the frequency of the tests.] [See Attachment _____.]

(4) EWD1 (10 points): Provide documentation that the flood warning and response plan includes pre-scripted messages or message templates and guidance for staff to quickly issue appropriate flood warnings. [See Attachment _____ Pages _____.]

(5) EWD2 (10 points): Provide documentation that public messages include information and instruction on the expected elevation of the flood waters, or storm surge, or the impact of flash flooding and instructions on when to evacuate. [See Attachment _____ pages _____.]

(6) EWD3 (10 points): If an outdoor voice-sound system or fixed-siren system is used that covers the community's jurisdiction. [See Attachment _____ pages _____.]

(7) EWD4 (either 5 or 15 points): _____ Five points if the plan identifies the primary and support agencies responsible for door-to-door or mobile public address warning **or** _____ 15 points if the plan identifies the routes, procedures, responsible staff and equipment necessary for door-to-door or mobile address warning. [See Attachment _____ pages _____.]

(8) EWD5 (10 points): If the Emergency Alert System through all channels/stations with pre-scripted draft messages is used. [See Attachment _____ Pages _____.]

CID: _____ Community: _____ Co: _____ State: _____

- (9) EWD6 (15 points): If a telephonic warning/enhanced telephone notification is used. [See Attachment _____ Pages _____.]
- (10) EWD7 (10 points): If television broadcast or message scroll notifications are implemented by the community. [See Attachment _____ Pages _____.]
- (7) EWD8 (15 points): If the community uses other forms of public notification for emergency warnings, such as geocoded alert notification products and social media coordination of emergency-related topics. [See Attachment _____ Pages _____.]
- (8) EWD9 (10 points): If tone alert radios or NOAA Weather Radios either provide a system of notification to or are physically located within the schools, hospitals, nursing homes, prisons and similar facilities that need flood warning. [See Attachment _____ pages _____.]
- (11) EWD10 (10 points): If the flood inundation map or evacuation map or series of maps used to meet the credit criteria in Section 611.a are posted online. URL/link _____

Flood Response Operations (FRO) Credit Criteria and Additional Documentation

The maximum credit for this element is 115 points.

- (1) The activity credit criteria must be met.
- (2) For full credit for flood response operations, the plan needs to:
- (a) _____ Describe the actions to be taken;
 - (b) _____ Identify the office or official responsible for the action;
 - (c) _____ Define the time needed to carry out the activity, and;
 - (d) _____ Contain other critical information that designated agencies and organizations will need to perform their assigned responsibilities. General statements or an assignment of responsibilities with no specifics about what is to be done are not credited.
- (3) Bonus credit is provided under FRO5 if there is a list of the personnel, equipment, facilities, supplies and other resources needed to complete each task. For full credit the list must identify what is available within the community and what is needed from private suppliers or other jurisdictions. [See Attachment _____ pages _____.]
- (4) FRO5 also provides bonus credit for preparing for mitigation opportunities that may arise in the aftermath of a disaster—a time when hazard awareness is high, funds are more likely to be available, and disruption of the status quo makes it possible to rethink the design and location of facilities and infrastructure. This should be coordinated with the public information activities credited under flood response preparations (FRP) under Activity 330 (Outreach Projects), which encourages owners to take mitigation measures during repairs.

CID: _____ Community: _____ Co: _____ State: _____

- [See Attachment _____ pages _____.]
- (5) FRO6 provides bonus credit for identifying response and recovery measures to take that support property protection, such as providing a high-ground site for relocated vehicles, helping move building contents and distributing sandbags. [See Attachment _____ pages _____.]
- (6) FRO1 (15 points): If the community has developed scenarios that review how flood incidents might develop at the different levels shown on the flood inundation map.
[See Attachment _____ pages _____.]
- (7) FRO2 (Up to 35 points): If the plan identifies flood response tasks and responsible community staff and other public and private organizations with responsibilities related to the flood tasks in the plan, the estimated equipment, supplies and time required for each response task and the sources of necessary resources. [See Attachment _____ pages _____.]
- (a) (5 points): For identified flood response tasks and responsible staff.
[See Attachment _____ pages _____.]
- (b) (10 points): For an estimate of the number of personnel needed for each task.
[See Attachment _____ pages _____.]
- (c) (5 points): For an estimate of the time required for each response task.
[See Attachment _____ pages _____.]
- (d) (15 points): For a list of equipment and supplies expected to be needed and how they will be obtained.
[See Attachment _____ pages _____.]
- (8) FRO3 (25 points): If specific actions are keyed to the different flood levels shown on the flood inundation map or maps used for credit under Section 611.b (3).
[See Attachment _____ pages _____.]
- (9) FRO4 (10 points): For maintaining a data base of people with 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 _____ pages _____.]
- (10) FRO5 (Up to 15 points): If the plan includes instructions for When and how returning evacuees can reoccupy their damaged homes and businesses, Permit requirements during the recovery phase, Implementing the community hazard mitigation plan's identified flood loss mitigation measures on community property and Promoting flood loss mitigation measures for private property.
[See Attachment _____ pages _____.]
- (11) FRO6 (20 points): If the plan identifies actions that support property protection measures that could be carried out during response and recovery phases.

[See Attachment _____ pages _____.]

Critical Facilities Planning (CFP) Credit Criteria and Documentation

The maximum credit for this element is 75 points.

- (1) The activity credit criteria must be met. CFP1 is a prerequisite for any CFP credit.
- (2) If your community doesn't have critical facilities that can be affected by flooding, the community must provide documentation stating this on community letterhead and provide a copy of the community's adopted definition of critical facilities. Credit will be limited to a total of 5 points in CFP.
- (3) For CFP1, the community's flood warning and response plan must list the facilities considered critical in a flood. This can be in a separate document or SOP. In general, facilities not subject to flooding do not need to be addressed, although in some cases loss of access can cause a critical situation. There may also be facilities in flood-free sites that are needed to support the flood response effort (e.g., sandbag suppliers and shelters for evacuees). The list must be updated at least annually. The community must also contact the facilities to determine if they need any special warning arrangements. The community does not need to provide a special warning to all critical facilities, only those that need one.
- (4) CFP1 (Up to 25 points): The plan includes the contact information, including the names and phone numbers of the operators of all public and private critical facilities affected by flooding, and [See Attachment _____ pages _____.]
- (5) Arrangements for special warnings or early notifications directly to those critical facilities that need advanced warning. [See Attachment _____ pages _____.]
- (6) CFP2 (up to 50 points): If critical facilities listed under CFP1 have their own flood warning and response plans have been developed, reviewed or accepted by the community. The credit is be prorated based on the percentage of affected critical facilities that have creditable plans. [See Attachment _____ pages _____.]

At each verification visit, a list of all public and private critical facilities affected by flooding or needed to be operational during a flood, with the contact information and agreed-upon warning needs must be provided. [For CFP2] The list of critical facilities marked to identify those that have developed their own flood warning and response plans that have been reviewed and accepted by the community. The ISO/CRS Specialist will ask for samples of the plans for review.

At annual recertification, a page from the latest list of the critical facilities provided for CFP1 credit must be provided to the ISO/CRS Specialist, which is updated at least annually.

StormReady Community (SRC):

The maximum credit for this element is 25 points.

- (1) The activity credit criteria must be met.
- (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 or be included in a NWS designation letter from the borough/county/parish SRC program.

TsunamiReady Community (TRC):

The maximum credit for this element is 30 points.

- (1) The activity credit criteria must be met.
- (2) The community must be designated as a TsunamiReady community by the NWS.
- (3) The community must meet the CRS tsunami hazards mapping requirements of element MTS (Mapping tsunami hazards), in Section 412.f (2) of the Coordinator’s Manual.
- (4) The community must have adopted a tsunami hazards operations plan that describes the actions the community is to take upon receiving a tsunami warning.

ANY ADDITIONAL INFORMATION YOU WISH TO SUBMIT:
