

From: [French Wetmore](#)
To: [Scott Boettcher](#); "[Betsy Dillin](#)"
Cc: "[Erik Martin](#)"; "[Steve Mansfield](#)"; "[Jill Kangas](#)"
Subject: RE: Please Coordinate -- 2019-21 Local Projects Proposals
Date: Thursday, July 19, 2018 4:26:08 PM
Attachments: [Coordination of the two Lewis County flood planning proposals.docx](#)

Scott:

Attached is a paper on how the two proposals would be coordinated. It has been circulated to all the communities.

French Wetmore, CFM
French & Associates, Ltd.
1610 Nisqually Street
Steilacoom, WA 98388
253/753-6811 (cell)
French@FrenchAsoc.com

From: Scott Boettcher <scottb@sbgh-partners.com>
Sent: Friday, July 13, 2018 4:30 AM
To: Betsy Dillin <Betsy.Dillin@lewiscountywa.gov>; 'French Wetmore' <french@frenchasoc.com>
Cc: Erik Martin <Erik.Martin@lewiscountywa.gov>; Steve Mansfield <Steve.Mansfield@lewiscountywa.gov>; Jill Kangas <Jill.Kangas@lewiscountywa.gov>
Subject: Please Coordinate -- 2019-21 Local Projects Proposals

Betsy and French – You both authored and/or submitted planning proposals for 2019-21 local projects funding. Your proposals appear to overlap where they speak to conforming to CRS 610.

- CRBFCZD -- <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69498&ItemID=6154>
"The Plan will also include a comprehensive review of the flood warning capability in Lewis County. This review will include a review of existing programs and protocols, and will include a list of changes or program enhancements that fall within the capabilities of the FCZD. The team will use CRS activity 610 (Flood Warning Programs) as the standard for which this evaluation will be based upon."
- LCDEM -- <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69498&ItemID=6163>
"This project would follow the guidance in, and qualify for credit under, FEMA's Community Rating System (CRS) (Activity 610 – Flood Warning and Response). Receiving CRS credit for the plan will result in lower flood insurance premiums for properties in the County and will ensure continuous implementation of the plan."

Can you confer with one another and send a "reply all" with how these planning efforts will defer to one or the other, coordinate with one another, etc. The local projects reviewing committee met

last week and wanted to better understand how these proposals could work together (on this point specifically, and then again also overall). Thanks for your help. Please get back to me by the end of the day July 20th at the latest.

Thanks again.

Scott

Each Other's Contact Information:

Betsy Dillin, PE

Senior Utilities and Surface Water Engineer
Lewis County Public Works
2025 NE Kresky Ave
Chehalis, WA 98532
Phone: (360) 740-1138
Betsy.Dillin@lewiscountywa.gov

French Wetmore, CFM

French & Associates, Ltd.
1610 Nisqually Street
Steilacoom, WA 98388
253/753-6811 (cell)
French@FrenchAsoc.com

Coordination of the two Lewis County flood planning proposals

The Lewis County Flood Control Zone District is proposing a comprehensive Flood Hazard Management Plan (CFHMP) Update. While designed to meet the District's needs, it could also be credited under the CRS's Activity 510, Floodplain Management Planning. To receive any credit, the plan would need to follow a 10-step planning process and would need active involvement of staff and other representatives of the communities that want CRS credit.

To receive full credit, the plan would need to include a review and general analysis of the full range of mitigation/floodplain management measures. Attached is the CRS guidance on what should be reviewed. The more measures reviewed, the greater the credit. Implementing most of the items listed can also get additional credit under other CRS activities.

One of the categories is emergency services. The Flood Warning and Response Plan proposal would prepare a detailed plan of what steps should be taken at different levels of predicted flooding. This plan would be credited under a different CRS section, Activity 610, Flood Warning and Response.

While the two proposals are for different projects, there are some places where coordination will be very helpful:

1. Task 2.1 in the District's proposal calls for GIS maps. The flood warning proposal calls for GIS maps for different predicted flood levels. It is recommended that a single set of maps be prepared for both projects using the same criteria. This will both reduce the total cost and ensure that each project's maps are interchangeable.
2. Task 2.3 is an analysis of the impact of flooding on property. The results of this work will help prioritize critical facilities or areas for more detailed flood response planning
3. Task 4.3 is a review of the County's flood warning program. A more detailed review than needed for CRS 510 plans will be conducted during the preparation of the flood warning and response plan. The findings could be used for the analysis needed for CRS credit in the District's plan.
4. It is recommended that French & Associates provide advice to the District's planning process to ensure that the plan will receive the maximum feasible CRS credit under Activity 510, Floodplain Management Planning.

1. **Preventive** activities keep flood problems from getting worse. The use and development of flood-prone areas is limited through planning, land acquisition, or regulation. They are usually administered by building, zoning, planning, and/or code enforcement offices.
 - Floodplain mapping and data
 - Open space preservation
 - Floodplain regulations
 - Erosion setbacks
 - Planning and zoning
 - Stormwater management
 - Drainage system maintenance
 - Building codes
2. **Property protection** activities are usually undertaken by property owners on a building-by-building or parcel basis.
 - Relocation
 - Acquisition
 - Building elevation
 - Retrofitting
 - Sewer backup protection
 - Insurance
3. **Natural resource protection** activities preserve or restore natural areas or the natural functions of floodplain and watershed areas. They are implemented by a variety of agencies, primarily parks, recreation, or conservation agencies or organizations.
 - Wetlands protection
 - Erosion and sediment control
 - Natural area preservation
 - Natural area restoration
 - Water quality improvement
 - Coastal barrier protection
 - Environmental corridors
 - Natural functions protection
4. **Emergency services** measures are taken during an emergency to minimize its impact. These measures are usually the responsibility of city or county emergency management staff and the owners or operators of major or critical facilities.
 - Hazard threat recognition
 - Hazard warning
 - Hazard response operations
 - Critical facilities protection
 - Health and safety maintenance
 - Post-disaster mitigation actions
5. **Structural projects** keep flood waters away from an area with a levee, reservoir, or other flood control measure. They are usually designed by engineers and managed or maintained by public works staff.
 - Reservoirs
 - Levees/floodwalls
 - Diversions
 - Channel modifications
 - Storm drain improvements
6. **Public information** activities advise property owners, potential property owners, and visitors about the hazards, ways to protect people and property from the hazards, and the natural and beneficial functions of local floodplains. They are usually implemented by a public information office.
 - Map information
 - Outreach projects
 - Real estate disclosure
 - Library
 - Technical assistance
 - Environmental education

Figure 510-4. Categories of floodplain management activities.

From: [French Wetmore](#)
To: [Scott Boettcher](#); "[Andrew Kinney](#)"
Cc: colronjanaverill@comcast.net
Subject: RE: Emergency Response Planning Proposals ---- FW: Please Coordinate -- 2019-21 Local Projects Proposals
Date: Thursday, July 19, 2018 4:26:20 PM
Attachments: [Clarification of the Dam Failure Planning Proposal.docx](#)

Scott:

Attached is a paper clarifying the questions on the dam failure planning aspect of the proposal.

French Wetmore, CFM
French & Associates, Ltd.
1610 Nisqually Street
Steilacoom, WA 98388
253/753-6811 (cell)
French@FrenchAsoc.com

From: Scott Boettcher <scottb@sbgh-partners.com>
Sent: Friday, July 13, 2018 4:40 AM
To: 'French Wetmore' <french@frenchasoc.com>; Andrew Kinney <KinneyA@co.thurston.wa.us>
Cc: colronjanaverill@comcast.net
Subject: Emergency Response Planning Proposals ---- FW: Please Coordinate -- 2019-21 Local Projects Proposals

French – Can you also coordinate with Andrew Kinney re CRS 630 and Skookumchuck Dam? Review Committee was wondering about the scope of the effort here and what would be done given that the Dam already has an active planning and emergency response effort going. Is this more a paper exercise? I'm curious if in the end it will be a "repackaging of existing information" exercise and as such a relatively easy effort to gain CRS points? Is that the case?

Andrew – Please look at the links below as there may be some interest/overlap/connection to Thurston DEM. Is so, please explain what would be helpful if these were to move forward.

Thanks!

Scott

From: Scott Boettcher
Sent: Friday, July 13, 2018 4:30 AM
To: 'Betsy Dillin' <Betsy.Dillin@lewiscountywa.gov>; 'French Wetmore' <french@frenchasoc.com>
Cc: 'Erik Martin' <Erik.Martin@lewiscountywa.gov>; Steve Mansfield <Steve.Mansfield@lewiscountywa.gov>; 'Jill Kangas' <Jill.Kangas@lewiscountywa.gov>
Subject: Please Coordinate -- 2019-21 Local Projects Proposals

Betsy and French – You both authored and/or submitted planning proposals for 2019-21 local

projects funding. Your proposals appear to overlap where they speak to conforming to CRS 610.

- CRBFCZD -- <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69498&ItemID=6154>
"The Plan will also include a comprehensive review of the flood warning capability in Lewis County. This review will include a review of existing programs and protocols, and will include a list of changes or program enhancements that fall within the capabilities of the FCZD. The team will use CRS activity 610 (Flood Warning Programs) as the standard for which this evaluation will be based upon."
- LCDEM -- <https://www.ezview.wa.gov/DesktopModules/Documents2/View.aspx?tabID=28124&alias=1492&mid=69498&ItemID=6163>
"This project would follow the guidance in, and qualify for credit under, FEMA's Community Rating System (CRS) (Activity 610 – Flood Warning and Response). Receiving CRS credit for the plan will result in lower flood insurance premiums for properties in the County and will ensure continuous implementation of the plan."

Can you confer with one another and send a "reply all" with how these planning efforts will defer to one or the other, coordinate with one another, etc. The local projects reviewing committee met last week and wanted to better understand how these proposals could work together (on this point specifically, and then again also overall). Thanks for your help. Please get back to me by the end of the day July 20th at the latest.

Thanks again.

Scott

Each Other's Contact Information:

Betsy Dillin, PE

Senior Utilities and Surface Water Engineer
Lewis County Public Works
2025 NE Kresky Ave
Chehalis, WA 98532
Phone: (360) 740-1138
Betsy.Dillin@lewiscountywa.gov

French Wetmore, CFM

French & Associates, Ltd.
1610 Nisqually Street
Steilacoom, WA 98388
253/753-6811 (cell)
French@FrenchAsoc.com

Clarification of the Dam Failure Planning Proposal

Lewis County submitted a request for small project funding from the Chehalis River Basin Flood Authority. In addition to a general flood warning and response plan for the Chehalis Basin portion of Lewis County, the project would prepare a dam failure warning and response plan for the Skookumchuck River downstream of the Skookumchuck Dam. This would cover both Lewis and Thurston Counties.

Because there has been some work on responding to a Skookumchuck Dam failure, there is a need to clarify what the project would produce that hasn't already been done. Currently, we have the following:

- Good coordination between the dam owners (TransAlta Corporation) and the county emergency managers.
- Dam failure flood data, including mapping and arrival times for two scenarios: a sunny day failure and a maximum flood conditions failure.
- Some response guidance, such as the telephone numbers of those who have signed up for a dam failure warning.
- Evacuation planning is underway in Thurston County.

The project intends to follow the guidance in the Community Rating System for a dam failure warning and response program. That credit requires a plan that includes all four of the following elements:

- Up to 30 points for having a system to advise the emergency manager when there is a threat of a dam failure.
- Up to 35 points for disseminating the warning to the public.
- Up to 30 points for planning and practicing specific tasks to be undertaken to reduce or prevent threats to health, safety, and property.
- Up to 20 points for coordination of dam failure warning and response activities with operators of critical facilities. (*CRS Coordinator's Manual*, page 630-1, found at <https://crsresources.org/manual/>)

A maximum of 115 points are possible. More details under each of these elements results in more points. This proposal would start with what has been done to date and would add:

- An inventory of the buildings and critical facilities impacted.
- Multiple media used for warning, most likely with a different list for each community (Thurston County, Bucoda, Tenino, Lewis County, Centralia, and Chehalis).
- Action items tasks for each responsible department for the two flood scenarios.
- Coordination with impacted critical facilities to determine their level of preparedness, the best way to warn them, and their need for assistance during a flood response.
- A master warning and response plan for each jurisdiction that includes both the existing data and procedures and the new additions.