

IMPLEMENTING FLOODPLAIN MANAGEMENT PLANS IN USACE

2011 Flood Risk Management and Silver Jackets Workshop

Judy Soutiere, CFM

National Flood Risk Management Team
Institute for Water Resources
U.S. Army Corps of Engineers
18 August 2011



®

US Army Corps of Engineers
BUILDING STRONG®



When and How to Get Started on Developing a FPMP

- When do you talk to the sponsor?
 - Typical Corps Project Times
 - During scoping of a feasibility study so the cost is included
 - Any time during the feasibility study so that cost can be included
 - During scoping of a design
 - During the negotiations for the PPA
 - When FEMA is remapping
 - When their Hazard Mitigation Plans are being revised
 - When you are in a Silver Jackets meeting
 - When a community is updating their CRS plans
 - Whenever a community comes to the Corps asking for help



When and How to Get Started on Developing a FPMP

- First Identify what funding stream you will use
 - \$\$ Feasibility/Design/Construction
 - If not a current project –
 - Flood Plain Management Services
 - Planning Assistance to States (50/50 cost shared)
 - FEMA \$\$



Scope Development

- Develop Scope of Work/Who will do the work
 - Determine the end use of the plan
 - i.e. meets FEMA CRS, Hazard mitigation plans and Corps requirements
 - What currently exists
 - Is there a FPMP in the communities' CRS package?
 - Is there a FPMP in the community's Hazard Mitigation Plan?
 - What does the community have as far as emergency evacuation plans?
 - What is in the operations and maintenance manual of the Corp's project?

- Handout is a draft scope of work for development of a FPMP by a contractor



Sample Flood Plain Management Plan

Example Table of Contents:

Basics:

1. INTRODUCTION
2. DESCRIPTION OF THE AREA
3. PURPOSE OF THE FLOODPLAIN MANAGEMENT PLAN
4. DEVELOPMENT PROCESS OF THE FLOODPLAIN MANAGEMENT PLAN
5. FLOODPLAIN HAZARD ASSESSMENT
6. LOCATION
7. PUBLIC INVOLVEMENT PROCESS
8. FLOODPLAIN COMMITTEE (OR WATERSHED AUTHORITY / DRAINAGE DISTRICT)
9. FLOODPLAIN MANAGEMENT COMMUNICATION PLAN
10. GOALS AND OBJECTIVES SHARED BY THE COMMUNITIES



Sample Table of Contents (cont.)

11. STRATEGIES AND TOOLS

11.a. STRATEGY: MODIFYING HUMAN SUSCEPTIBILITY TO FLOOD HAZARDS

TOOL: LAND USE REGULATIONS

TOOL: PUBLIC REDEVELOPMENT POLICIES

TOOL: FLOOD WARNING SYSTEMS

TOOL: FLOODPROOFING OF STRUCTURES IN THE FLOODPLAIN

TOOL: PROCESS FOR RELOCATION OF STRUCTURES

11.b. STRATEGY: MODIFYING THE IMPACT OF FLOODING

TOOL: INFORMATION AND EDUCATION

TOOL: FLOOD INSURANCE

TOOL: TAX ADJUSTMENTS

TOOL: EMERGENCY RELIEF

TOOL: POST-FLOOD RECOVERY PROCESSES

11.c. STRATEGY: PRESERVING AND RESTORING FLOODPLAINS'

ENVIRONMENTAL QUALITY

TOOL: WETLANDS PROTECTION AND RESTORATION

TOOL: EROSION AND SEDIMENT CONTROL

TOOL: WATER QUALITY ENHANCEMENT

TOOL: ENHANCEMENT OF RECREATION AND EDUCATIONAL OPPORT

TOOL: PRESERVATION OF CULTURAL RESOURCES

11.d. STRATEGY: MODIFYING FLOODWATERS

TOOL: STORMWATER DETENTION BASINS

TOOL: LEVEES, FLOODWALLS, AND LANDFORMS

TOOL: CHANNEL ALTERATIONS, DIVERSIONS, AND BYPASSES

TOOL: PUMP STATIONS



Sample Table of Contents (cont.)

12. ACTION PLAN

ADOPTION – CITY RESOLUTIONS

ACTION ITEMS

ON-GOING AWARENESS CAMPAIGN FOR FLOOD
HAZARDS

RISK MANAGEMENT PLAN

COMMUNICATIONS MANAGEMENT PLAN

CHANGE MANAGEMENT PLAN

ANNUAL FLOOD HAZARD EDUCATION ACTIVITIES

UPDATES TO THE FLOODPLAIN MANAGEMENT PLAN

FEMA NFIP COMMUNITY RATING SYSTEM

US ARMY CORPS OF ENGINEERS, INSPECTION OF
COMPLETED WORKS



Implementation

Ways to increase the effectiveness of the Flood Plain Management Plans

1. Add to check list for scoping out a feasibility study
2. Add to check list for negotiating a Project Partnership Agreement
3. Add to list of items that should be inspected for the project as part of the Operations and Maintenance Manual, add to the Inspection for Completed Works

