

USACE Nonstructural Flood Proofing Committee

The National Nonstructural Flood Proofing Committee (NFPC) was chartered in 1985 to promote the use of nonstructural flood proofing methods for reducing life loss and minimizing property damages.

Authority, Objective, and Scope. The NFPC functions under Section 206 of the 1960 Flood Control Act, as amended, and is under the direction of the Chief, Planning and Policy Division, Directorate of Civil Works. The objective of the NFPC is to support USACE Headquarters by providing leadership in the development and implementation of nonstructural flood risk management measures, and by providing support for all USACE floodplain and flood risk management activities.

Definition of Nonstructural Flood Proofing. Nonstructural flood proofing measures are proven methods and techniques for reducing flood risk and flood damages by adapting to the natural characteristics of flooding within the floodplain.

Nonstructural flood risk management can be categorized as a set of **physical** or **nonphysical** measures utilized for mitigating loss of life as well as existing and future flood damages. The physical measures determined to be most commonly implemented are those which adapt to the natural characteristics of the floodplain without adversely affecting or changing those natural flood characteristics. These measures generally cause no adverse effects to the floodplain, flood stages, velocities, flood duration, or the environment.

Nonstructural flood risk management measures are permanent or contingent measures applied to a structure and/or its contents that prevent or provide resistance to damage from flooding. Nonstructural flood risk management measures differ from structural measures, such as levees, dams, diversions, or channel modifications, all of which change the probability of



An elevated structure with flood vents

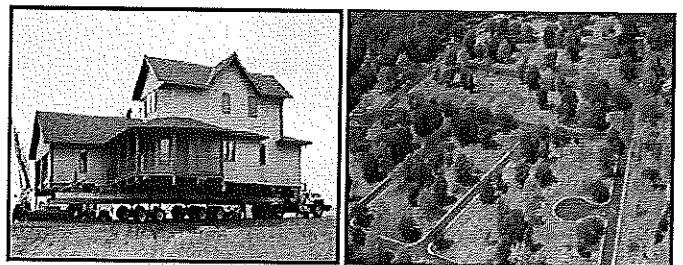
flooding, in that these measures focus on reducing the consequences of flooding.

The most common physical flood risk adaptive measures are:

- Acquisition / Buyout
- Relocation
- Elevation
- Dry Flood Proofing
- Wet Flood Proofing
- Basement Removal / Utility Addition

Nonphysical nonstructural measures are generally identified as being management measures within the floodplain. These measures address flood risk through regulation and best management practices and can be considered separately or as a combination of floodplain management and planning functions. The nonphysical measures include:

- Flood Warning Systems
- Floodplain Mapping
- Flood Insurance
- Flood Emergency Preparedness Plans
- Land Use Regulations
- Zoning
- Evacuation Planning
- Floodplain Management Plans
- Risk Communication



Relocation to evacuate the floodway/floodplain





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Instruction at a workshop on nonstructural measures.

Types of Assistance. The NFPC offers technical consultation on a full array of flood risk management measures in support of the USACE lifecycle planning process, from initial assessments and plan formulation through technical review; with additional support provided to authorities and programs for Engineering & Construction, Regulatory and Operations.

Some of the most common types of assistance include:

- Nonstructural assessments
- Nonstructural plan formulation
- Workshops and webinars
- Public meeting presentations
- Quality assurance
- Technical Review
- Risk reduction behind levees
- Risk reduction below dams

Technical Resources. The NFPC also offers the following tools and services:

- Publications
- Assessment tools
- National Flood Barrier Testing & Certification Program
- Structure attribute data table
- Nonstructural Matrix

NFPC Website. The committee website provides technical publications, tools, resources and links to other agencies.

www.usace.army.mil/Missions/CivilWorks/ProjectPlanning/nfpc.aspx

NFPC Members and Advisors. The NFPC consists of members and advisors from across the agency:

- Randall Behm, Chair, Omaha, NE
- Steve O'Leary, Sec, Huntington, WV
- Kim Gavigan, Phoenix, AZ
- Keven Lovetro, New Orleans, LA
- Lea Adams, Davis, CA
- Mary Weidel, Detroit, MI
- Brian Rast, Kansas City, MO

Charges for Assistance. The NFPC services are provided at a cost to USACE Districts; State agencies and local governments, Indian Tribes, and other Federal or Nonfederal public agencies.

How to Request Assistance. Contact the NFPC to inquire about any of the available services, tools, educational outreach, or your specific nonstructural needs.

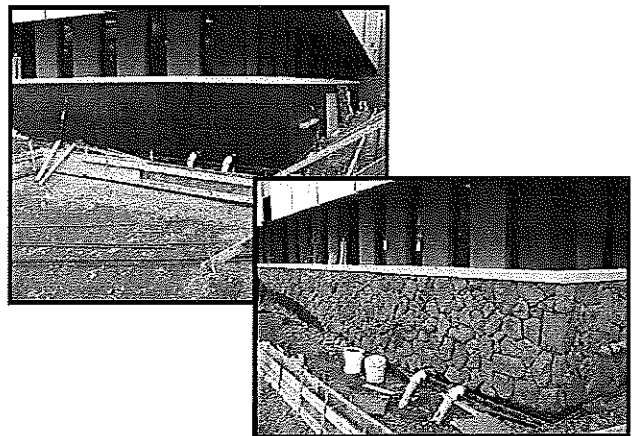
Contact the NFPC:

Attention: Randall Behm, Chair, NFPC
(402)995-2322
USACE, Omaha District

Email the NFPC at:

dll-cenwo-nfpc@usace.army.mil

For quick access, Google "USACE NFPC"



Dry flood proofing to prevent future damages.

