



# ENGINEERING "NO-RISE" CERTIFICATE

## For Arkansas NFIP Communities

### OFFICE USE ONLY

Date Received: \_\_\_\_\_

File Number: \_\_\_\_\_

## INSTRUCTIONS FOR THE ENGINEER

Section 60.3 (d) (3) of the National Flood Insurance Program (NFIP) regulations states that a community shall "prohibit encroachments, including fill, new construction, substantial improvements and other development within the adopted regulatory floodway **unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice** that the proposed encroachment would not result in any increase in flood levels within the community during the occurrence of the base (100-year) flood discharge." This certification -an Engineering "No-Rise" Certificate - must be obtained from the applicant and be signed and sealed by a professional engineer.

The engineering "no-rise" certification must be supported by technical data based upon hydraulic analyses that utilize the same model used to prepare the effective Flood Insurance Study (FIS) report and Flood Insurance Rate Map (FIRM) unless it is demonstrated that the effective hydraulic model is unavailable or its use is inappropriate.

The "no-rise" supporting data should include the following:

- Copy of the Duplicate Effective model;
- Copy of the Corrected Effective model;
- Existing conditions, or Pre-Project conditions model
- Proposed conditions or Post-Project conditions model.
- FIRM and topographic map, showing floodplain and floodway, the additional cross-sections, the site location with the proposed topographic modification superimposed onto the maps, and a copy of the effective FIRM or FBFM showing the current regulatory floodway.
- Analysis procedures noting modifications made to original FIS model to represent revised existing conditions, as well as those made to the revised existing conditions model to represent proposed conditions.
- Copy of effective Floodway Data Table copied from the (FIS) report.
- Statement defining source of additional cross-section topographic data and supporting information.
- Cross-section plots, of the added cross sections, for revised existing and proposed conditions.
- Certified planimetric (boundary survey) information indicating the location of structures on the property.
- Copy of the source from which input for original FIS model was taken.
- CD or flash drive with all input and output files.
- Printout of output files from EDIT runs for all three floodway models.

The engineering "no-rise" certification and-supporting technical data must stipulate **NO impact on the 100-year flood or floodway elevations at the new cross-sections and at all existing cross-sections anywhere in the model**. Therefore, the revised computer model should be run for a sufficient distance (usually one mile, depending on hydraulic slope of the stream) upstream and downstream of the development site to insure proper "no-rise" certification.

Failure to follow this guidance may result in notification to the Arkansas State Board of Licensure for Professional Engineers, the Arkansas Floodplain Managers Association Professional Development and Certification Committee, and/or FEMA Region VI.

If you have any questions regarding the Engineering "no-Rise" Certificate or need additional information, please contact the State National Flood Insurance Coordinator at 501-682-3969.



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## SITE INFORMATION

<b>Date</b> _____	<b>Project</b>
<b>Community</b> _____	
<b>County</b> _____	<i>Address</i> _____
<b>Applicant</b>	_____
<i>Name</i> _____	_____
<i>Address</i> _____	<i>Description of Development:</i>
<i>Telephone</i> _____	_____
<b>Engineer</b>	<i>Principal Use of Premises:</i>
<i>Name</i> _____	_____
<i>Address</i> _____	_____
<i>Telephone</i> _____	_____

## FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

NFIP map(s) and panel(s) affected: \_\_\_\_\_

Effective date of map: \_\_\_\_\_

Base Flood Elevation on FIRM: \_\_\_\_\_

Name of flooding source: \_\_\_\_\_

## SUPPORT DOCUMENTS

Attached are the following documents that support this Engineering "No-Rise" Certification:

<input type="checkbox"/> Copies of the Duplicate Effective, Corrected Effective, Existing or Pre-Project conditions, and Proposed or Post-Project conditions models	<input type="checkbox"/> Copy of effective Floodway Data Table
<input type="checkbox"/> Analysis procedures documentation	<input type="checkbox"/> Cross-section plots
	<input type="checkbox"/> CD or flash drive with all input and output files.
	<input type="checkbox"/> Printout of output files runs for all three floodway models.

Please see **INSTRUCTIONS FOR THE ENGINEER** for additional documentation that may be required.

## CERTIFICATION

This is to certify that I am a duly qualified Professional Engineer licensed to practice in the State of Arkansas. I further certify that the attached engineering data supports the fact the proposed development would not result in any increase in flood levels within the community during the occurrence of a base flood event.

_____ CERTIFIER'S NAME	_____ LICENSE NUMBER	(embossed seal)
_____ COMPANY NAME		
_____ SIGNATURE	_____ DATE	
_____ TITLE		