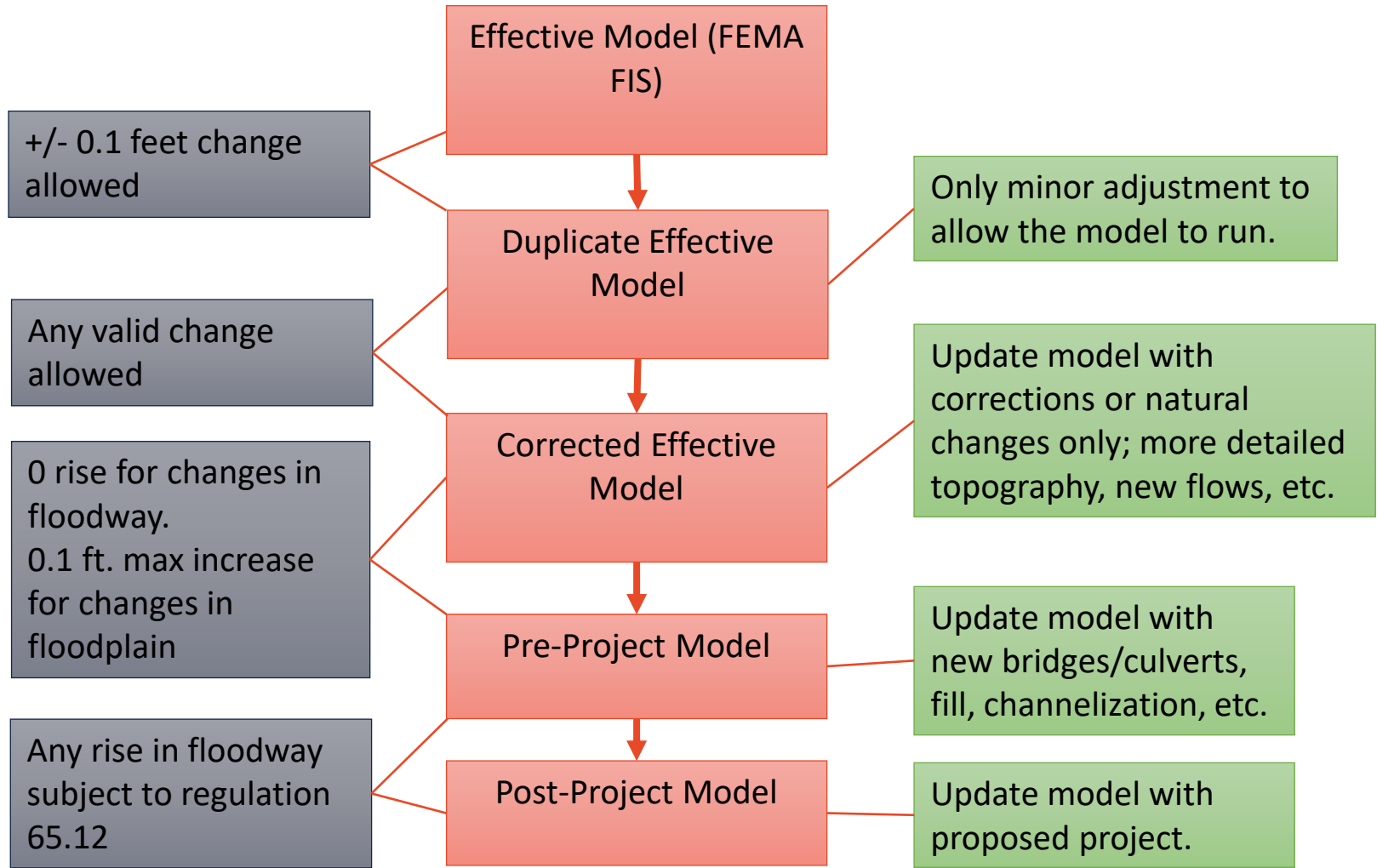


Faster CLOMR'S and LOMR'S



Improving your times
With FEMA Map Changes

CLOMR/LOMR Model Sequence



Hydraulic Review

- Approved Models
 - <https://www.fema.gov/numerical-models-meeting-minimum-requirements-national-flood-insurance-program>
- FEMA Engineering Library
 - <https://www.fema.gov/engineering-library>
 - <https://www.fema.gov/how-order-technical-administrative-support-data>
- Hydraulic Models Required
 - Duplicate Effective
 - Corrected Effective
 - Pre-project
 - Post-project
- Digital format: Executable (Make Sure They Run!)

Hydraulic Review

- Effective Hydraulic Model
 - The hydraulic analysis used in the effective FIS or LOMR
- Duplicate Effective Hydraulic Model
 - A copy of the effective model reproduced on the requestors computer (Use Effective Discharges)
 - Should not be modified – unless required to allow model to run
 - E.g. adding distance from upstream XS to bridge
 - If the effective model is available:
 - Should match within 0.1 foot at all locations
 - If the effective model is not available:
 - New model calibrated to reproduce the FIS profile within 0.5 ft

Hydraulic Review

- Corrected Effective Model
 - Corrects errors in the duplicate effective
 - Adds cross sections
 - More detailed historic topography
 - May include new hydrology
 - Must NOT reflect man-made changes since the date of the effective model
- Pre-Project Conditions Model (Avoid “Existing”)
 - Modified Duplicate or Corrected Effective model
 - Includes any modifications since the date of the Effective
 - New hydrology if revised
 - If no modifications since the effective: The Duplicate Effective or Corrected Effective = the Pre-Project Conditions
- Post-Project Conditions Model
 - Modified version of the Pre-Project Conditions model
 - Includes modifications to reflect the project

Hydraulic Review

- Why all the models?
 - Isolate Changes
 - Identify Corrections
 - Evaluate Comparisons
 - Potential Violations
- Effective FIS data vs. Duplicate Effective
 - Should match within 0.1 foot at all locations
 - 0.5 ft if effective model is not available
 - Ensures:
 - The correct model is being used
 - The data was transferred correctly to the requestor's equipment
 - Revised data integrated into effective

Hydraulic Review

- Duplicate/Corrected Effective vs. Pre-Project
 - How do they compare?
 - Are there any potential violations?
- Existing vs. Post-Project
 - What are the incremental impacts of the project?
- Effective vs. Post-Project
 - Impact on the FIRM and FIS
 - Adverse impact notification

