Revising Your Maps: Insights on the CLOMR/LOMR Process
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When is IDNR/OWR Concurrence Required?

OWR Jurisdiction:
• Drainage area > 1 sq. mi. (urban/urbanizing)
• Drainage area > 10 sq. mi. (rural)

OWR Concurrence:
• Changes in Regulatory Conditions
• Flows and/or Base Flood Elevations
• Floodways
• Letters of Map Amendment

Submittal Requirements

Submittal Checklist:
• Narrative
• Maps
• Schematic
• Supporting Calculations
• Summary Tables

Narrative:
• Study purpose & methods used
• Rainfall & Distribution
• Critical Duration Analysis
• Calibration

Maps & Schematic:
• Location
• Aerial Photos
• Topography
• Land Use
• Soils
• Floodplain Map
• Model Schematic
• Subbasins
• Cross-Sections
• Other Significant Points

Supporting Calculations:
• CN Values
• Lag Time/TC
• Rating Curves
• Routing

Models:
• Hydrologic
• Hydraulic
• Floodway Definition
• Structure-Specific
• Electronic copies of all
• Hard copies of selected

Summary Tables:
• Hydrologic Analyses
• Sensitivity Analysis
• Hydraulic Analyses
• Floodway Definition
• For study revision, include existing & proposed conditions

Forms:
• Present data logically!
• Interactive PDF available
Common Problems

Incomplete Narrative:
• Signed & Sealed
• Overall methodology
• Rainfall & Distribution
• Calibration
• One page is not sufficient!

Missing Critical Duration Analysis, which should include flows for:
• Each rainfall
• Each subbasin

Floodway Definition:
• 0.1 ft Stage Increase
• 10% Velocity Increase
• 90% Storage Volume

Missing or Incomplete Summary Tables:
• Critical Duration Analysis
• Existing vs. Proposed Conditions
• Floodway Definition

Review:
IDNR Concurrence is required for regulatory changes
Submittal requirements are listed on handout
Common problems boil down to incomplete submittals.

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New Hydrology/Flow Approval Checklist

☐ Narrative
   ☐ Project Description
   ☐ General Location Map
   ☐ Analysis Methods
   ☐ Rainfall Amounts
   ☐ Rainfall Distributions
   ☐ Sensitivity Analysis
   ☐ Calibration
   ☐ Documentation of Restrictive Road Crossings
   ☐ Signed & Sealed by P.E.

☐ Maps & Schematics
   ☐ Include Subbasins & Names
   ☐ Include Other Significant Points
   ☐ Aerial Photography
   ☐ Topography
   ☐ Land Use
   ☐ Soils
   ☐ Floodplain/Floodway
   ☐ Model Schematic

☐ Supporting Calculations
   ☐ Curve Numbers
   ☐ Lag Time/TC
   ☐ Rating Curves
   ☐ Routing Parameters

☐ Models
   ☐ Hydrologic - Print & Electronic
   ☐ Hydraulic - Print & Electronic
   ☐ Floodway Definition
   ☐ Structure-Specific

☐ Summary Tables
   ☐ Subbasin & Section IDs
   ☐ General Hydrology Results
   ☐ Sensitivity Analysis
   ☐ General Hydraulic Results
   ☐ Floodway Definition
<table>
<thead>
<tr>
<th>Frequency (Years)</th>
<th>Certified Discharges</th>
<th>Other Discharges</th>
<th>100-Year Flow (CFS)</th>
<th>10-Year Flow (CFS)</th>
<th>Area (SQ. MI.)</th>
<th>Legal Description</th>
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<td>100-Year Flow</td>
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<td>10-Year Flow</td>
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*Locations should be based on physical landmarks, such as "1000 ft. upstream Main St." Please attach a map showing the locations with identifiers.

January 2005

Agency/Firm: ____________________________

Date: ____________________________

Submitted By: ____________________________

Phone: ____________________________

Address: ____________________________

Applicant/Property Owner: ____________________________

Community or Communities Affected: ____________________________

County: ____________________________

Stream Name: ____________________________

Flood Insurance Study and Map Panel: ____________________________

Model Calibration? Yes  No

Study Models: ____________________________

Community or Communities Affected: ____________________________

Quadrangle Name(s): ____________________________

Hydrologic Information

Application Information

Applicant/Property Owner: ____________________________

Address: ____________________________

Phone: ____________________________

Submitted By: ____________________________

Date: ____________________________

Agency/Firm: ____________________________

Discharge Certification Form