

Agenda

Presented by Gary Franc, Civil Engineer

Overview of HMR52-FL Software

Development of HMR51² Development of HMR52³ HMR52-FL for EXCEL

HMR52-FL Features

MR52-FL input sheets HMR52-FL output sheets
HMR52-FL analysis HMR52-FL DSS interface

HMR52-FL Toolbar

Documentation & Information Apps
Basin importing apps Other basin apps Basin combining
PMP analysis apps Printing apps HEC-DSS apps
Program subscription apps

Open HMR52-FL - Demonstration of Applications

HMR52-FL Examples

Review of standard storm examples
• Example 1 – McDonald Dam with 11 basins
• Example 2 – Seneca River NY with 35 basins
Review of Advanced Storm Features
• Example 2B – Example 2 - 2 storm centers
• Example 2C - Example 2 - varying storm ratio

Overview of HELP-FL Software

HELP-FL for EXCEL Intro

HELPUSGS-FL Features

Introduction Analyses

HELPUSGS-FL Toolbar

Documentation & information apps
Web apps Statistical apps General support apps

Open HELPUSGS-FL - Demonstration of Applications

HELPDATASET-FL Features

Development Inputs Conventional turbine inputs
Hydrokinetic turbine Inputs

HELPMAIN-FL Features

Energy analysis Auto results rollups Auto results plotting
Financial analyses
Instream flow incremental methodology

HELPMAIN-FL Toolbar

Documentation & information apps Development & turbine apps
Calculation apps Results apps General support apps
HEC-DSS interface apps

Open HELPDATASET-FL & HELPMAIN-FL – Demonstration of Applications

HELP-FL Examples

Review of demonstrations
• Demo 1 – Reservoir storage option • Demo 2 – Historical elevations
• Demo 3 – Two scenario comparison • Demo 4 – Taintor gate option

**Introduction to Hydro-Meteorological Report 52 and
Hydro Energy Logic Program Modeling (HMR52-FL and HELP-FL)**
Syracuse, NY - Wednesday, February 27, 2019

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Learning Objectives

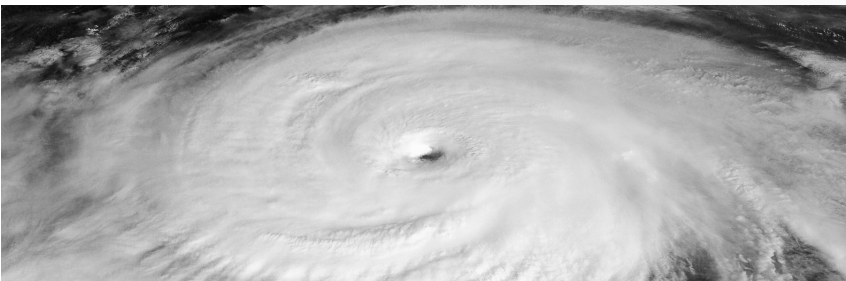
You'll be able to:

Become proficient in developing Probable Maximum Storms (PMS) using standard and non-standard HMR52 protocol.
Expand your client base to participate in dam safety, standard and site-specific probable maximum flood (PMF) and inflow design flood (IDF) studies.
Attain proficiency in developing streamflow time series and statistics at locations throughout the entire US.
Gain proficiency in estimating energy potential and financial viability at existing and proposed hydropower sites.
Receive an introduction to enhancements in the instream flow incremental methodology (IFIM).
Expand your client base to participate in energy and due diligence studies for hydro assets undergoing Federal Energy Regulatory Commission (FERC) licensing or relicensing.



Introduction to Hydro-Meteorological Report 52 and Hydro Energy Logic Program Modeling (HMR52-FL and HELP-FL)

Syracuse, NY - Wednesday, February 27, 2019



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Continuing Education Credits

Professional/Civil Engineers
7.0 Continuing Ed. Hours

Floodplain Managers
6.0 ASFPM CECs



Faculty

Gary Franc *Civil Engineer*

Mr. Franc possess over 35 years of hydroelectric engineering, operations and development experience with 25 years involved with Federal Energy Regulatory Commission (FERC) issues dealing with licensing, relicensing and Part 12 dam safety compliance issues. He has demonstrated abilities in water resources modeling, hydrology, hydraulics, finance, database management, stochastic processes, computer systems, statistics and application software development. Mr. Franc has extensive knowledge of and experience with all the Corps’ Hydrologic Engineering Center’s (HEC) packages as well as Microsoft’s, Word, Excel, PowerPoint and Access Programs. He has managed projects dealing with the identification of new potential conventional hydropower, water supply and pumped storage sites and the acquisition of existing hydro assets. He has considerable experience in the development of site hydrology, including unregulated inflow, flood-flow frequency analysis, drought contingency plans, river-channel and reservoir routing, open-channel and rainfall runoff modeling and analysis.

Mr. Franc has developed reservoir operations models and has evaluated the energy output and financial viability of hydroelectric projects as part of feasibility studies. He is currently a sole-proprietor specializing in FERC licensing and compliance and due diligence for potential hydro acquisitions. A sideline of his business is the use of proprietary software packages that afford detailed study and development of energy potential and financial estimates for existing and proposed turbine upgrades, replacements or additions. Mr. Franc’s additional area of study is the development of probable maximum precipitation (PMP) and/or probable maximum floods (PMF) as they relate to the inflow design floods (IDF), spillway adequacy and emergency action plans (EAP).

Seminar Information

Sheraton Syracuse University Hotel
801 University Avenue
Syracuse, NY 13210
(315) 475-3000

Tuition
\$279 for individual registration
\$259 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

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Continuing Education Credit Information

This seminar is open to the public and offers 7.0 continuing education hours to professional/civil engineers in all states, to whom the subject matter is relevant.

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The Association of State Floodplain Managers has approved this program for 6.0 ASFPM CECs.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

Webinar Series

- Off-Grid Master Class**
- **Off-Grid Master Class, Part I**
Wed., Feb. 6, 2019, 11:00 AM -2:15 PM CST
 - **Off-Grid Master Class, Part II**
Thurs., Feb. 7, 2019, 11:00 AM -2:15 PM CST

- Complying with ADA Standards for Accessible Design**
- **Complying with Federal and State Accessibility Requirements**
Thurs., Feb. 7, 2019, 11:00 AM -1:30 PM CST
 - **Meeting Requirements in IBC and ADA Standards**
Fri., Feb. 8, 2019, 11:00 AM -1:30 PM CST

- Special Inspections**
- **Introduction to Chapter 17: Special Inspections**
Wed., Feb. 13, 2019, 11:00 AM -12:30 PM CST
 - **Soils and Foundations**
Wed., Feb. 13, 2019, 1:00 -2:30 PM CST
 - **Reinforced Concrete and Structural Steel**
Thurs., Feb. 14, 2019, 11:00 AM -12:30 PM CST
 - **ACT Ceiling Grid, Epoxy Anchors, and Fire Penetrations**
Thurs., Feb. 14, 2019, 1:00 -2:30 PM CST

- Foundations in Cold Regions**
- **Introduction to Cold Regions Foundations**
Thurs., Feb. 21, 2019, 11:00 AM -12:30 PM CST
 - **Shallow Foundation Design in Cold Regions**
Thurs., Feb. 21, 2019, 1:00 -2:30 PM CST
 - **Deep Foundation Design in Cold Regions**
Fri., Feb. 22, 2019, 11:00 AM -12:30 PM CST
 - **Foundation Construction in Cold Regions**
Fri., Feb. 22, 2019, 1:00 -2:00 PM CST

- Soil Mechanics and Retaining Wall Design**
- **Soil Investigation and Classification**
Wed., Feb. 27, 2019, 11:00 AM -1:00 PM CST
 - **Retaining Walls: What They Do and How They Do It**
Wed., Feb. 27, 2019, 1:30 -2:30 PM CST
 - **Geosynthetics and Retaining Walls**
Thurs., Feb. 28, 2019, 11:00 AM -1:30 PM CST
 - **Retaining Wall Failures and Fixes/Site Layout and Prevention**
Thurs., Feb. 28, 2019, 2:00 -4:00 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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Syracuse, NY - Wednesday, February 27, 2019

How to Register	
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Tuition
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