

FEMA

Holistic and sustainable solutions for a resilient nation

Michael Baker

INTERNATIONAL

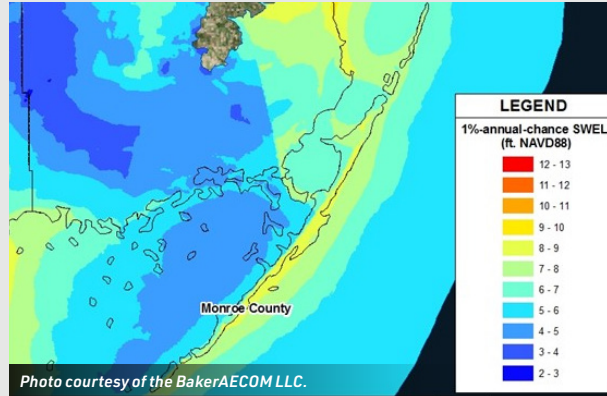


MAKING COMMUNITIES STRONGER AND MORE RESILIENT

Michael Baker International, a leading provider of engineering and consulting services, has been solving some of the world's most complex infrastructure challenges for more than 80 years with a legacy of expertise, experience, innovation and integrity. As a leading expert in risk mitigation and resilience, we have partnered with the Federal Emergency Management Agency (FEMA) for more than 40 years, including nationwide support of the National Flood Insurance Program (NFIP).

Michael Baker helps FEMA advance its NFIP mission of reducing comprehensive flood risk by updating and modernizing technical standards for flood hazard data and floodplain mapping; implementing engineering and mapping tools nationwide; reviewing Letters of Map Change for the nation; and producing Flood Insurance Rate Maps.

Our transformative experience and leadership in risk mitigation and resilience spans engineering analyses, technology solutions, like virtual reality and big data, and risk communication and community engagement. We have successfully produced more than 80,000 miles of updated flood hazard data and developed and delivered hundreds of NFIP flood risk products across the nation.



Production & Technical Services (PTS)

This contract is the cornerstone of Michael Baker's history of supporting FEMA. We began this work over 40 years ago for the U.S. Department of Housing and Urban Development, before FEMA was established in 1979. In 1985, Michael Baker was awarded a three-year, \$17.3 million contract to provide engineering, mapping and support services vital to the administration of the NFIP. This work was the equivalent of today's PTS contract.

Since then, Michael Baker has supported this work through various versions of the PTS contract, including the \$750 million Map Modernization contract in the early 2000s. Currently, Michael Baker leads the Advancing Resilience in Communities (ARC) joint venture for a \$300 million PTS contract, generating and evaluating flood hazard and risk information and supporting the development and application of mitigation, planning, flood mapping and modeling activities. ARC oversees project management and integration of the mapping projects, hazard mitigation and disaster support throughout FEMA's Zone 1, which covers geographic areas affected primarily by North Atlantic storm events, severe winter storms and coastal storm surges. Zone 1 includes FEMA headquarters in Washington, D.C., and Regions 1, 2, 3 and 5, extending from Maine to Virginia, and to Puerto Rico, the U.S. Virgin Islands, and the Great Lakes region.

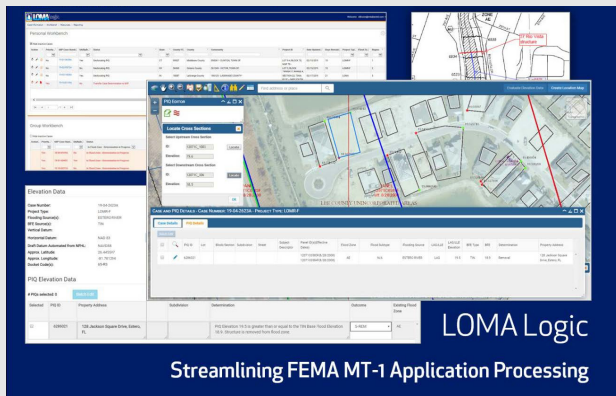


Community Engagement & Risk Communications (CERC)

As a managing partner of the Resilience Action Partners joint venture, Michael Baker has delivered excellence to the FEMA CERC contract since its inception in 2015. This innovative contract combines communications and outreach excellence with hazard mitigation planning to help FEMA and communities change the way they engage in all-hazard preparedness and mitigation. We work side by side with communities to help expand understanding of hazards and the devastation they can bring, as well as promote a more proactive stance toward preparedness and mitigation nationwide. For example, we:

- Helped Pennsylvania communities understand their changing flood risk and learn how to better protect themselves, including supporting 20 local and state organizations in FEMA Region 3;
- Assisted Region 10 with shifting the focus of mitigation actions and land use planning by listening to and highlighting the flood experiences and needs of residents and local government officials in Oregon and Washington state;
- Connected communities with state, federal and third-party hazard mitigation grants, loans and technical assistance that could help fund their mitigation projects. Michael Baker worked closely with FEMA planners to create a series of state- and tribe-specific plain language Mitigation Funding Resource Guides, including comprehensive lists, verified funding resources, eligibility requirements, program-specific contact information, cost-sharing opportunities and best practice recommendations.

We Make a Difference



Customer & Data Services (CDS)

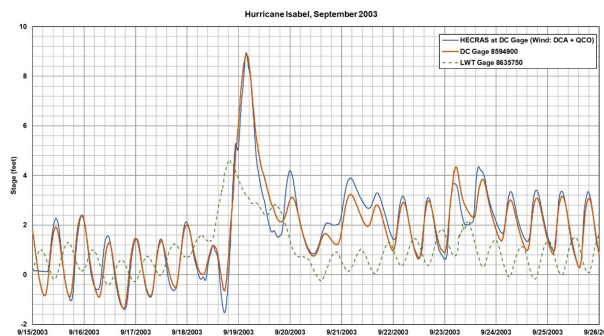
Michael Baker has been supporting the CDS contract for more than a decade. CDS provides a digital platform for disseminating high-quality flood maps, spatial data and tools to enable property owners and communities to assess flood risk. Our work includes providing systems development and operations, data management, architecture, distribution and one-on-one customer service. We manage FEMA's engineering library, which requires extensive knowledge of FEMA's 500+ terabytes of data, and technical experts in all aspects of FEMA's study and mapping processes, modeling applications and records management solutions.

We also operate the FEMA Mapping and Insurance eXchange (FMIX) Customer Care Center, a multi-channel contact center providing service to 150,000 stakeholders annually. Our staff answers questions about flood maps and insurance, helping FEMA's customers make informed decisions in managing their risk. We share key lessons and recommendations with FEMA from these interactions, improving both the customers' experience and the NFIP.

MT-1 Processing Services Contract

Michael Baker, as part of the North Wind Resource Consulting team, provides nationwide Letters of Map Change processing services for Letters of Map Amendment, Letters of Map Revision – Based on Fill and Letters of Determination Review as part of the MT-1 contract to support the Risk MAP Program.

Michael Baker has reviewed more than 500,000 MT-1 applications. As the nationwide leader in MT-1 related experience, we are the only firm to have provided continuous support to FEMA for MT-1 processing services since the inception of the process.



Hazard Mitigation Technical Assistance Program (HMTAP)

Michael Baker and Tetra Tech, managing partner of the joint venture Alliance for Resilience and Mitigation (ARM), serve FEMA headquarters and Regions 5, 6, and 7, covering Illinois, Indiana, Michigan, Minnesota, Ohio, Arkansas, Louisiana, New Mexico, Oklahoma, Texas, Iowa, Kansas, Missouri and Nebraska. ARM supports headquarters specifically for the Federal Insurance and Mitigation Administration's Office of Flood Insurance Advocate and the Insurance and Mitigation Readiness Division. As the HMTAP provider, ARM delivers a wide variety of non-engineering activities for FEMA's hazard mitigation programs, including grant application support; environmental and historic preservation support; post-event assessments, policy and regulatory analysis; publications and NFIP support; and community outreach.

Flood Insurance and Mitigation Administration (FIMA) ePMO

Michael Baker provides program and project management support to FIMA's efforts to advance an internal culture of project management excellence. Michael Baker developed processes, guidance and toolsets and fostered a greater sense of strategic unity between FIMA operations, transformation initiatives and special projects. As part of the FIMA ePMO team, we offer subject matter expertise in NFIP operations, flood insurance, and technical requirements across the Risk Management and Federal Insurance Directorates.

CAPABILITIES

- Flood Hazard Analyses & Mapping
- Community Engagement & Risk Communication
- Dam & Levee Risk Assessment
- Hazard Mitigation Planning
- Program Management & Staffing Support
- Technology Support & Tools

TECHNICAL EXPERIENCE

- 2D/3D Coastal Surge & Wave Modeling
- ARCGIS & QGIS Tool Development
- Benefit Cost Analysis (BCA)
- Cloud Automation for Flood Modeling
- Flood Risk Database Development
- Multi-Scale Watershed Modeling
- National Environmental Policy Act (NEPA) Compliance
- Section 106 of the National Historic Preservation Act Compliance
- Virtual Reality Visualization

Visit mbakerintl.com/practices/water for more information about our capabilities and iconic projects.

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WE ARE PROUD TO SUPPORT FEMA WITH DISASTER PREPAREDNESS, RESPONSE AND RECOVERY EFFORTS ACROSS THE COUNTRY. OUR HIGHLY EXPERIENCED TEAM HAS SUCCESSFULLY DELIVERED PROJECTS AND CRITICAL PROGRAMS THAT SERVE OUR NATION NOW AND INTO THE FUTURE.



FEMA Community Engagement and Risk Communication Contract, Nationwide