



# FEMA Corporation - Lab Services

Validate with Confidence

## ▶ Accredited Laboratory Services

Backed by 50+ years of hydraulic engineering excellence, FEMA Corporation's accredited Engineering Laboratory delivers accurate, reliable product testing and validation you can trust.

## ▶ Testing Built Around Your Timeline

Our in-house test engineers and laboratory technicians partner with you to develop, coordinate, and validate products efficiently. We offer custom test fixturing, controls, and high-speed data acquisition using LabVIEW, supported by trusted partner labs, accessing additional capabilities as required.

### Hydraulic

- 11 hydraulics power units ranging from: 15-350HP | 1-120 GPM
- Durability
- Flow vs. Delta P
- Leakage
- Contamination
  - Durability and sensitivity
  - ISO 4406
- Impulse/Fatigue and Burst
  - NFPA T2.6.1
  - Fatigue: Up to 690 bar
  - Burst: Up to 4000 bar

### Vibration

- Random
- Sinusoidal
- Shock
- Wet Vibration (Hydraulic performance across frequency range)

### Environmental

- Thermal Shock
  - Oil to Oil and Air to Air
- Thermal Cycle
- Combined Environmental
  - Humidity/Temperature/Voltage
- Immersion
  - IEC 60529
- Cold Water Splash + High Pressure Spray Wash
- Hydraulic performance validation across temperature range

### Miscellaneous

- Jump Start Voltage
- Chemical Resistance
- Force vs. Displacement
- Electrical
  - Megohm
  - AC Hipot
  - Resistance vs. Frequency
  - Inductance vs. Frequency

## ▶ ISO-Certified Confidence

FEMA's Engineering Lab is **ISO/IEC 17025:2017 accredited by ANAB**, with zero non-conformities in our most recent surveillance audit. All in-house testing equipment is **NIST traceable**, ensuring precision and compliance.

## ▶ Validate with Confidence

When performance matters, rely on FEMA Corporation's accredited Laboratory Services—where proven engineering meets dependable results. All projects are quoted with clear scope, cost, scheduling, and confidentiality.

Contact us about your testing needs at: [FEMALabServices@fema-corp.com](mailto:FEMALabServices@fema-corp.com)

ISO 9001:2015 | ISO 14001:2015 | ISO/IEC 17025:2017 | IATF 16949:2016

1716 Vanderbilt Avenue, Portage, MI 49024 | +1-269-323-1369 | [fema-corp.com](http://fema-corp.com) | [sales@fema-corp.com](mailto:sales@fema-corp.com)