

## What We Can Do For You

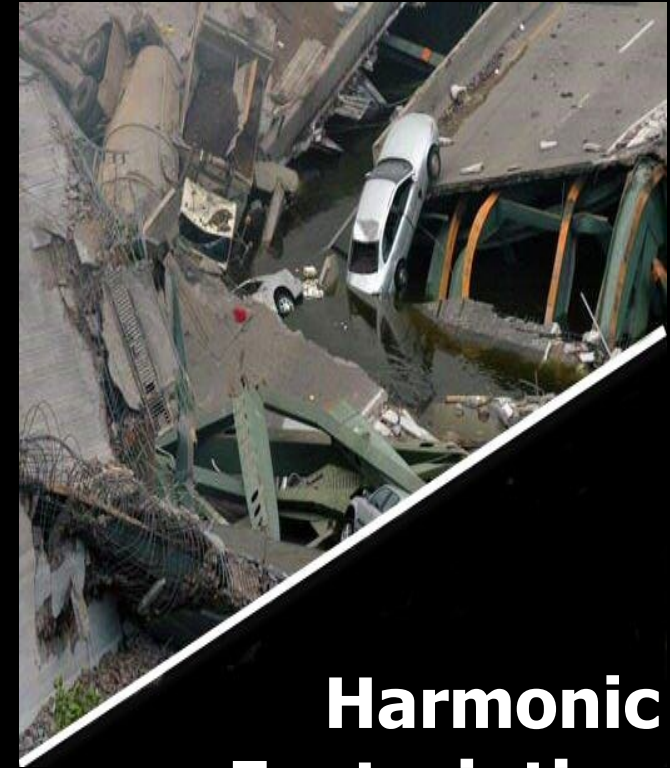
### Harmonic Footprinting offers:

- 24/7 Structural Monitoring even in Weather Evacuations
- 24/7 Moving Component Monitoring
- 24/7 Below Water Line Monitoring
- 24/7 Performance Level Monitoring to allow for shutdown prior to catastrophic failure
- Reduction in manual structure inspection costs and hours
- Availability of stress level records for the entire structure to reduce insurance premiums
- Increase in personnel safety through alerts of structural integrity loss prior to failure

## Call to Action

Harmonic Footprinting invites you to contact us for a customized quote for your business. We will work with you, one on one, to design a system that meets your individual needs and budget.

Whether you need to monitor an offshore oil rig, bridge, dam, high rise, and/or critical machinery, we have the flexibility to provide your monitoring solution.



## Harmonic Footprinting

Maintaining Structural Integrity



**Harmonic Footprinting, LLC.**

7500 Ulmerton Rd., Suite 27  
Largo, Florida 33771

**Phone: (727) 532-4755**

**Toll Free: (800) 221-2022**

**<http://www.harmonicfootprinting.com>**



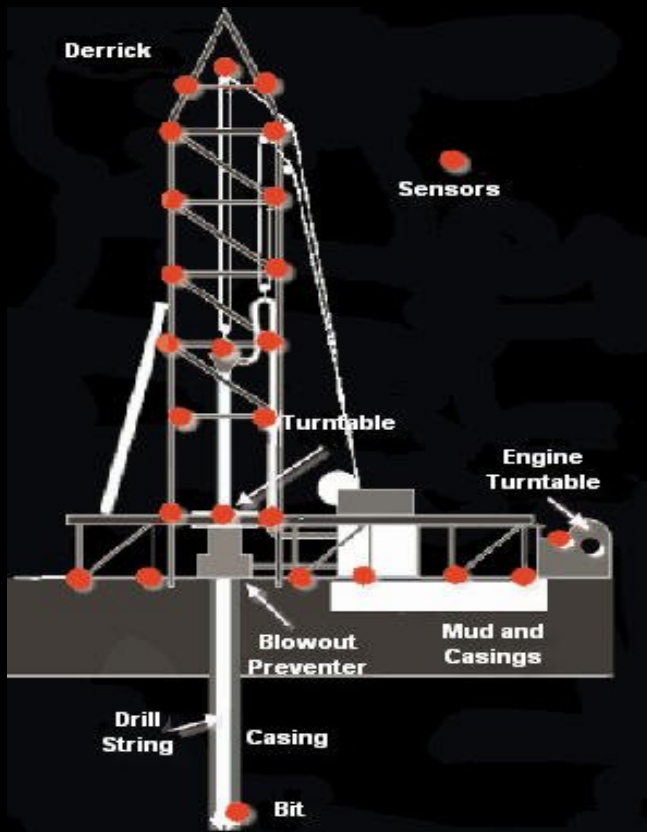
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## Our Mission

Our Mission is to provide technological solutions to Metal Fatigue stress caused by Harmonic Vibrations. Metal Fatigue is one of the single most destructive factors leading to the eventual catastrophic failure in:

- Infrastructure Components (bridges, roadways, tunnels, high rises, towers, pipelines, oil rigs)
- Weapons Systems
- Vehicles, Cranes
- Critical Machine Parts
- Ships, Aircraft and Trains

Harmonic Footprinting has patented proprietary procedures, devices and software to analyze, measure, and continuously monitor materials and structures for performance integrity.

## Our Products

### Thermal Cycling:

Each Metal type has unique temperature ranges that can restructure the metal at the molecular level; when Metal is put through these temperature ranges, dramatic improvement is realized in wear resistance and durability, increasing it in strength, toughness, corrosion resistance, stability, life expectancy, and performance. Metal Fatigue susceptibility is significantly reduced.

### Harmonic Footprinting:

All metals have a specific Frequency, or Tone, known as a Vibrational Signature or "Footprint", like a Tuning Fork. Strike the tuning fork on the table and it creates a sound or frequency.

Harmonic Footprinting records Vibrational Footprints by installing tiny sensors into the metal. Each time the metal is struck, a new Footprint is created and transmitted to a database. Overtime, the metal's footprints are synthesized, creating a normal range of acceptable Footprints. Should something happen to the metal, (e.g., crack, wear out, loosen, corrode, malfunction), the new footprint transmitted to the database will not match the normal range of acceptable footprints and an alert will be triggered for manual inspection.

## Testimonials

"Harmonic Footprinting has developed a process that dramatically reduces the frequency of maintenance and results in significant cost savings and improved safety. Their treated brakes are currently being used by a number of Law Enforcement Agencies who are recognizing improved safety specifically in high speed pursuits where safe stopping is so essential."

**Mack Vines**

**Former Chief of Police**

**St. Petersburg Florida, Cape Coral Florida, Charlotte, North Carolina, Dallas, Texas**

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"When Frank first approached us about treating the brakes on our buses, we set up a test. We treated some of the school buses and then brought them back after 10,000 to 14,000 miles. They had less than 2% wear. That ended the Test."

**Jim Basilotto**

**Sarasota Florida Maintenance Superintendent**

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"We have been selling Brake Rotors and Disc Pads which have been treated with your Thermal Cycling Process for over 4 years with complete satisfaction. On the average, my customers see a three-fold life increase, with better stopping and performance. I would highly recommend your process to anyone looking for significant cost savings and better performance."

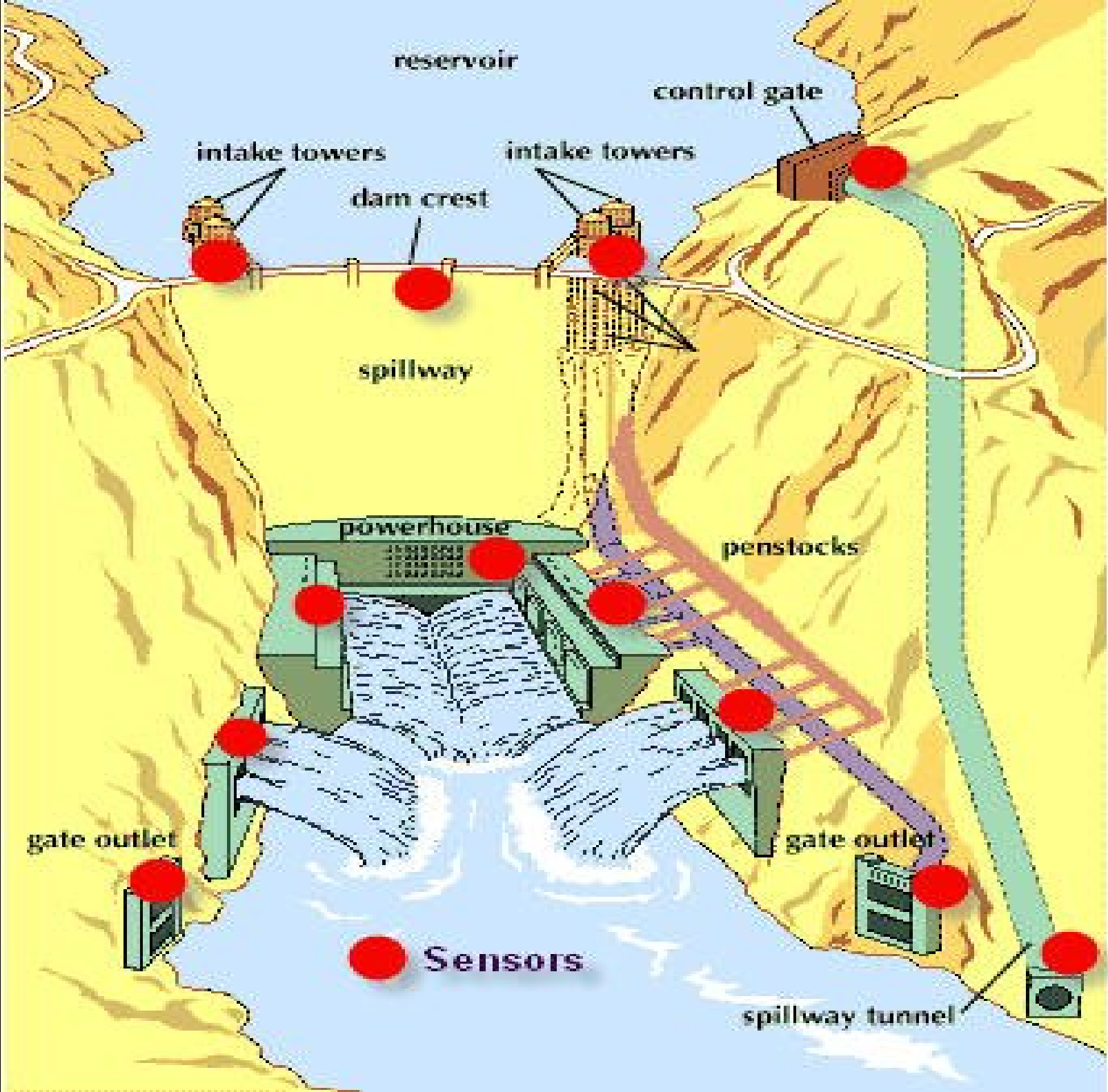
**R. Andrew Castanheiro**

**President, U.S. Brake, Inc.**

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● Sensors



# SENSORS & RECEIVER BOXES (FOR ALL BRIDGES)

