GMU West Campus Lightning Detection and Notification System
Lightning Detection

- Lighting and severe weather is a known threat
- Some areas of Mason are more vulnerable to severe weather:
  - Students, athletes, and visitors on West Campus
  - Individuals with limited/no access to Mason Alert
  - West Campus parking/shuttle areas
- Lighting policies required by NCAA regulations
- Protects spectators and students
NCAA Requirements

• Develop a lightning safety plan for each outdoor venue
• Designate a person to monitor threatening weather and make notifications
• Monitor local weather reports daily before any practice or event.
• Be informed of National Weather Service (NWS) issued thunderstorm watches or warnings
• Know where the closest “safer structure or locations” for each playing area
• Lightning awareness should be heightened at the first flash of lightning, clap of thunder, and/or other signs
Solution

• Earth Networks Total Lightning Network®
• Stand alone system limited points of failure
• Automated real-time lightning detection
  • Uses lighting sensors throughout the world
  • Custom alert ranges (e.g. 5-15 miles)
  • Text message notification to key personnel
  • Software offers customization and monitoring
• Reduces warning time and human error
Proposed Installation Locations
Audible and Visual Warning

• Alert Tone and Strobe Light Warning
  • Tone for 15 seconds when lighting is within range
  • 3 x 5 second tone bursts at 30 minute all clear
  • No audible tone between alerts – strobes only
Questions

• System can:
  • Be programmed to run during specific hours/days
  • Conform to local noise ordinances
  • Be turned off when not needed

• System cannot:
  • Be turned down
  • Be focused in a specific direction
  • Provide audible voice messages
Maryland Soccerplex
Bucknell News Report
Braddock Road Transmission Main – Phase I