

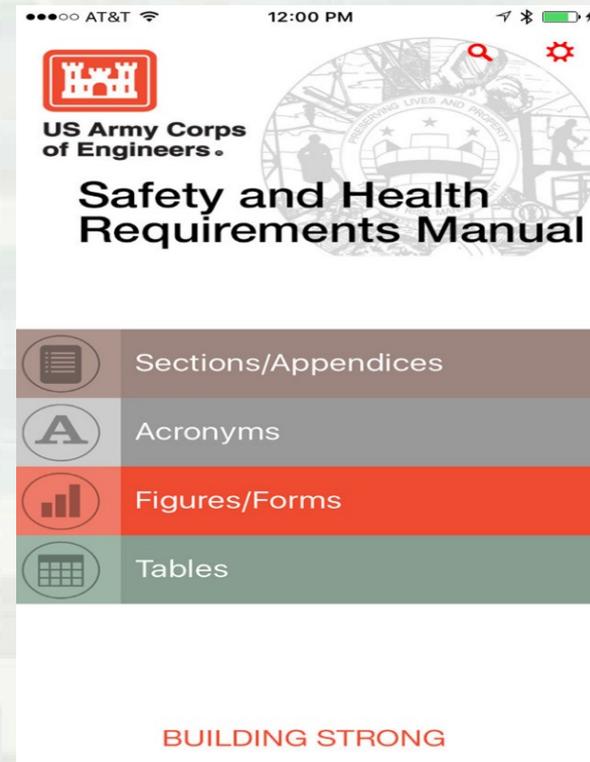
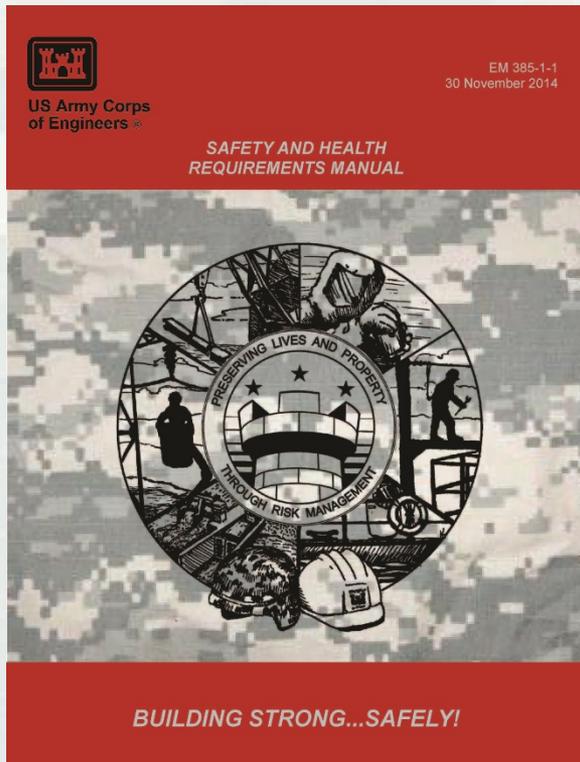
# Chicago Sanitary Ship Canal (CSSC) Fish Barrier Project Safety Briefing



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# BIG PICTURE



# Operational Overview

- Purpose: To prevent aquatic nuisance species from migrating to Lake Michigan
- Operation: Barrier introduces electric field to CSSC to harass fish to prevent northward migration
- Safety Consequences: Field is harmful to humans; stray current is generated; EMF's are generated



# Industry Day

- In safety terms, I want you to understand that we take Safety ... seriously and we ask that while you tour through the facility, be respectful of the processes and procedures we have put into place to make your time here .. Effective and Safe.
- A Safety Booklet has been provided to you.
- PPE will be provided to you at the Project.



# Potential Hazards - Navigation

- Barrier field poses risks to navigation
  - Sparking between barges
  - Possible cargo ignition/explosion
  - Man overboard
- Mitigation measures
  - USCG Regulated Navigation Area
  - Use of conductive wire rope to lash tows
  - Use of bow boats for “red flag” tows



# Potential Hazards – Operational

- Risk of injury or death to anyone who may fall into the electrified water
  - Ventricular fibrillation
  - Inability to self rescue – drowning
- Mitigation measures:
  - USCG Regulated Navigation Area
  - Public education/outreach
  - Emergency shut-down procedures



# Potential Hazards - Land

- Barrier field migrates out of the water and into surrounding ground
- Risks posed:
  - Electric shocks to humans
    - Occupational
    - Public
  - Corrosion of structures, utilities, etc
  - Interferences with railroad signaling



# Safety at the Barrier Project

## Mitigation:

- Minimize persons accessing site
- Implementation of specific work rules, safety briefings
- Isolation of current carrying structures
- Use of suitable personal protective equipment (PPE)
- Ongoing studies on how to minimize corrosion risk and risk of railroad signaling interference



# Safety Expectations – Site Tour

- Please stay with your respective groups. Do not wander away from the group.
- Please .. Do not touch any equipment. Safety measures have been put into play today to facilitate the safe movement of many personnel.
- If you have questions regarding the safety of the operation, please ask .. There will be key staff at the project site ready to answer your question.
- IF...we don't have the immediate answer, we promise to get the answer and provide that information to you

