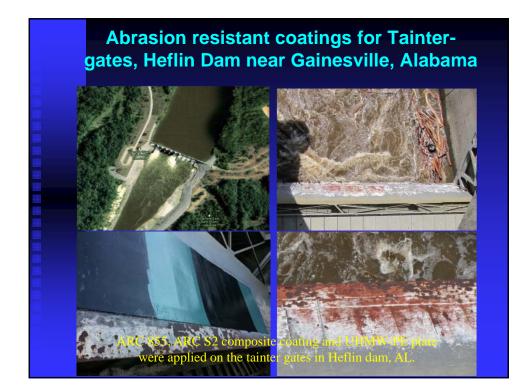




 To accelerate the adoption of polymer composites and innovated construction materials into infrastructure applications through collaborative research

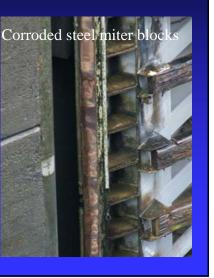
- Highway, railway and waterway
- Buildings and housing
- Pipelines
- Utilities and energy industries



Replacing Steel Miter Blocks with FRP Composite Miter Blocks

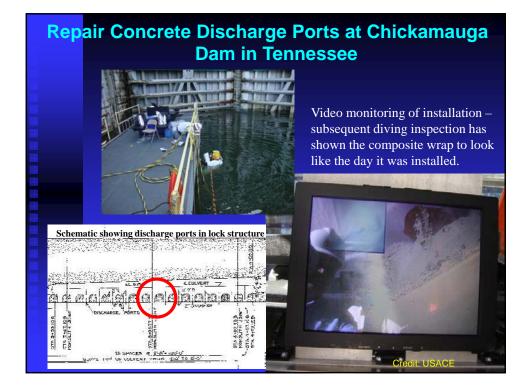


Small lock at Hiram Chittenden (Lake Washington Shipping Canal) Locks, Seattle, WA.



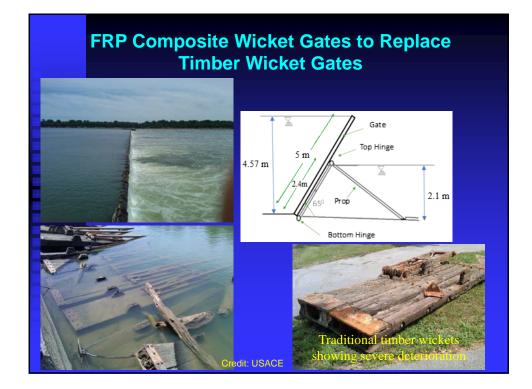














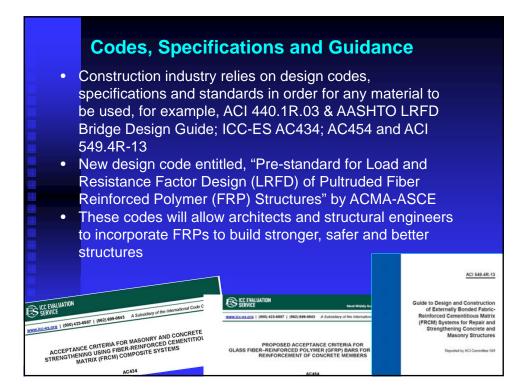












Conclusions

- Academia in cooperation with government and industry has made major strides in developing FRPs for infrastructure applications, including structures for highway and waterway, utility poles, wind turbine blades, and pipelines.
- With recent launching of new design codes, FRP composite materials will become an integral part of civil infrastructure including extensive use for rehabilitating aging infrastructure at 15-30% of conventional repair costs.
- Society will benefit from the increased use of reliable and durable composite materials in terms of high strength, corrosion resistance, cost effectiveness and reduced user inconveniences due to ease of installation, low maintenance, longer service life, and greener products.