

Liquid Tight Concrete Structures

Design Criteria and Details for Environmental Compliance

EPA Guidelines and Requirements for Waterstops

(1 hour course - 1 hour CE credit)



JP Specialties,
Inc. / Earth Shield®
Waterstop

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Potential Attendees

- Structural Engineers
- Civil Engineers
- Environmental Engineers
- Owners
- Designers

Course Highlights

- EPA Regulations Clarified
- Guideline Compliance
- AST Concrete Vault Design
- Secondary Containment
- CSI Formatted Specifications
- CAD Design Tools
- Waterstop Choices
- Fluid-Proofing Concrete Joints



can Concrete Institute (ACI) 350 *Environmental Engineering Concrete Structures Subcommittee K (Hazardous Materials)*, and *G (Tightness Testing)*, and also serves as a voting member on *Subcommittee A (General and Concrete)*. David is currently co-authoring in committee the revised *“Concrete Structures for Containment of Hazardous Materials”* (to be published in 2012).



Waterstops for Environmental Compliance of Liquid Tight Concrete Structures is a targeted course of instruction and professional development for engineering firms engaged in the design of chemical, industrial, and environmental projects such as secondary containment of hazardous waste, industrial wastewater, ozone contactors, and others. The course is technical in nature and describes waterstops role in fluid-proofing concrete joints, chemical resistant polymers and steels, and state and federal regulations of compliance.

Topic (varies slightly dependent upon audience composition)	Time (min)
What is Waterstop — Installation — Forming & Function	5
Types of Waterstop Hydrophobic, Hydrophilic	10
Regulations Concerning Waterstop EPA, RCRA, NSF 61, water, GreenSpec	15
TPE/TPV Waterstop Polymer Science	15
Metallic Waterstop	5
Waterstop Applications & Fabrications	5
Closing Comments	5
Total Course Time	1 hour

Resources

- | | |
|-----------------|-------------------------|
| ACI 3502R-12 | EPA Guidelines Title 40 |
| CFR 265.193 | SPCC Regulations |
| EPA Publication | 40 CFR part 112 (2010) |
| NSF 61 | 1995 Corps(CEGS) specs |
| CSI | ASTM |
- Little Book of Waterstop by David Poole

JP Specialties, Inc. / Earth Shield®

JP Specialties, Inc. is the leading manufacturer of waterstop and waterstop-related concrete accessories. Our NSF 61 certified [Earth Shield®](#) line of chemical resistant waterstop is used throughout the world by major engineering firms and project owners for primary and secondary containment applications. JP Specialties has been in business since 1954.

Recently David Poole, president of J P Specialties, used his 20 years of experience as the leading expert in the waterstop industry and published the definitive reference book on waterstops --[The Little Book of Waterstop](#). David has served as an officer on the Ameri-

The Presenter

Tom Nelson is the National Sales Manager for JP Specialties and has been involved in technical products in the civil/structural disciplines for over 25 years. His expertise includes secondary containment coatings, concrete restoration, epoxies, grouts, caulks, and of course waterstops. He has active in the Houston chapter of CSI and has had several papers published on waterstop installations.

