

LESLIE D. SCOTT, P.E.

Chief Engineer **Tank Industry Consultants**

Education: B.S. Architectural Engineering, California Polytechnic State University at San Luis Obispo

Professional Registration

- California Registered Professional Engineer # 42920
- Nevada Registered Professional Engineer # 26335
- Oregon Registered Professional Engineer # 94820PE
- Washington Registered Professional Engineer # 57300

Professional Affiliations

- American Water Works Association
- American Society of Mechanical Engineers
- American Society of Civil Engineers
- Structural Engineers Association of Southern California
- American Welding Society

Years of Tank Experience: 40

Qualifications

Leslie Scott is a nationally recognized expert in the field-erected tanks and shop-fabricated storage tanks industries. Leslie's work experience has included a wide variety of assignments encompassing numerous aspects of the field-erected and shop-built storage tank business including engineering, detailing, fabrication and construction processes, coatings, project management, inspection, and estimating functions. Leslie's experience includes projects conforming to AWWA, API, ASME, NFPA, FM, UL, STI/SPFA, and fire code standards.

Industry Leadership

Leslie has been actively involved in numerous tank-related standards development committees/subcommittees of the American Water Works Association (AWWA) for over 33 years. His committee activities include:

- AWWA Standard Committee Steel and Composite Water Storage Tanks
- Chair, AWWA Standard Subcommittee – Carbon Steel Flat-Bottom Welded Steel Tanks for Water Storage
- Vice-Chair, AWWA Standard Subcommittee – General Requirements for Water Storage Tanks
- AWWA D100 Subcommittee – Standard for Welded Steel Tanks for Water Storage
- AWWA D102 Subcommittee – Standard for Coating Steel Water Storage Tanks
- AWWA D103 Subcommittee – Standard for Factory-Coated Bolted Carbon Steel Tanks for Water Storage
- AWWA Standard Subcommittee – Carbon Steel Elevated Tanks for Water Storage
- AWWA Standard Subcommittee –Stainless Steel Bolted Tanks for Water Storage
- AWWA D104 Subcommittee – Standard for Automatically Controlled, Impressed Current Cathodic Protection Systems for the Interior Submerged Surfaces of Steel Water Storage Tanks
- AWWA D106 Subcommittee – Standard for Sacrificial Anode Cathodic Protection Systems for the Interior Submerged Surfaces of Steel Water Tanks
- AWWA M42 Subcommittee – Steel Water Storage Tank Manual
- AWWA STAM Subcommittee – Steel Tank Asset Management Guide

Prior to joining TIC, Leslie spent a number of years providing technical support for engineering activities for several major tank fabricators and erectors. Projects completed include carbon steel and stainless steel storage tanks for a variety of storage applications including water, oil and oil processing, thermal storage, wine, chemical, fuels, waste water, and water and waste treatment. His expertise in tank design and engineering includes numerous projects involving seismic design and foundation systems.

OPTIONAL DETAILS

Leslie has extensive experience with special roof construction details for harsh conditions (high chlorine or other corrosive environments). and a United States patent on a special tank roof structure design addressing this issue. His special expertise includes nearly forty years of tank design projects including structural and seismic analysis. Throughout his career he has been the designer or engineer of record for over 600 tanks and engineering manager in charge of a specialized design team for about 300 more. Additionally, Leslie contributed to the publication of a new edition of a prominent structural engineering handbook by authoring a chapter on steel tanks that covers tank design including innovative designs for corrosion protection of tank roof structure systems.

Leslie also has experience with design of column-supported tank roofs to support heavy snow loads, including loads above 300 psf for tanks in the Lake Tahoe region. While Leslie was still employed by a tank construction contractor, he directed the contractor's engineering staff on development of an alternate roof structure design to enhance access and details for coating activities for improved coating performance and reduced long term maintenance costs.

Leslie also provides training on tank design and construction topics for owners and consultants by being a frequent speaker at relevant industry events and conferences in the western United States. The following is a sampling of his presentations.

- *Double Wall UST Technology Benefits from Best Features of Steel and Fiberglass*, a presentation made at the California UST Regulatory Compliance Conference, San Diego, CA
- *Steel Water Storage Tank Seminar*, speaker. Multiple presentations at STI/SPFA seminars offered annually in California, Oregon, Washington, Arizona and Nevada
- *Water Storage – Why, Where and How*: a nationally broadcast live presentation for the American Water Works Association, Denver, CO
- *Design and Construction of Flat-Bottom, Ground-Supported Welded Steel Storage Tanks for Oil Storage (API 650)*: a presentation to the State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources
- *Water Storage Tanks – Total Cost of Ownership Considerations*: a presentation at the 2012 Spring Conference of the Cal-Nev AWWA
- *Design Considerations for Welded Steel Water Storage Tank Projects*: a presentation at the 2014 Spring Conference of the Cal-Nev AWWA
- *Alternative Construction Details for Extended Life of Welded Steel Storage Tanks Roofs*: a presentation at the 2015 Fall Conference of the Cal-Nev AWWA
- *Roof Construction Details for Asset Preservation of Welded Steel Storage Tanks*: a presentation at the 2016 Spring Conference of the CA-NV AWWA
- *Technical Workshop on Steel Water Tanks*: a presentation at the 2017 ASCE Pipelines Conference in Phoenix, AZ
- *Pre-Maintenance Evaluations – The First Step*: a presentation at the 2018 Tri-State Conference in Las Vegas, NV
- *Steel Tanks - Risk and Resilience Assessment and Mitigation Strategies*: a presentation at the 2019 Fall Conference of the Cal-Nev AWWA