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His work includes the evaluation of safety analyses, design documentation, technical specifications, commissioning documentation, and regulatory submissions; assessment of compliance with national regulations and international standards, including IEC standards and IAEA guidance; and contributions to regulatory decision-making processes for nuclear facility licensing and operational oversight. He has participated in national and international technical meetings, workshops, inspections, and training programs on nuclear I&C systems, regulatory inspections, nuclear safety, digital I&C technologies, and software-based safety systems. In addition to his regulatory work, he has developed and maintained a regulatory tracking and workflow management system used by approximately 100 users; designed Excel/VBA solutions; migrated the platform to a web-based architecture using JavaScript, HTML, CSS, Node.js, and SQLite; and developed SwiftUI mobile applications with CloudKit integration. His academic interests include smart grid communication systems, nuclear power plant-grid interfaces, small modular reactors, ancillary services, and cybersecurity in safety-critical energy infrastructures.

- Paper ID 296: Grid-Side Communication Requirements for Small Modular Reactors as Ancillary Service Providers in the Smart Grid (Presented Paper)
- Paper ID 297: Inertia Contribution of the Akkuyu NPP and Small Modular Reactors to Frequency Stability in the Turkish Power System (Other Paper in this Conference)