

## TURBINE GENERATOR USERS GROUP



### PROJECT HIGHLIGHTS

- Early identification of emerging industry issues
- Discussion of proven maintenance practices and repair techniques
- Interaction with turbine generator manufacturers on fleet issues
- Valuable experience for new turbine generator engineers

### Key Research Question

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EPRI's Turbine Generator Users Group (TGUG) was chartered in January 2000 to address the industry need for improved information exchange on fossil, nuclear and combined-cycle steam turbine generator reliability issues, maintenance practices, and risk management. Membership has grown to include more than 70 power producers worldwide.

### Objective

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TGUG provides a forum for discussion of reliability, operation, and maintenance of all types of steam turbines, generators, and associated systems.

Attendees acquire and exchange information on maintenance, inspection, performance upgrades, repair, testing, storage, and handling of all types of steam turbines, generators, and associated systems and sub-components.

TGUG participants discuss and exchange information on applicable codes and standards related to all types of steam turbines, generators, and associated systems and sub-components.

TGUG can assist member companies optimize preventive maintenance by gaining knowledge of operating experience that identify steam turbine, generator, and auxiliary systems industry issues, and establish appropriate processes for resolution.

The meetings provide an opportunity for system owners, equipment suppliers, service vendors, insurers, and industry leaders to participate in Member roundtables, which often provide immediate resolution for operating and repair strategies and mitigating risks.

### Approach

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EPRI staff, working with the members of TGUG, select meeting locations and key workshop topics for upcoming meetings.

A two-day workshop at the beginning of the week includes participation and technical presentations from members, key industry service providers, and the four major steam turbine generator manufacturers. The following two days are for funders

only of TGUG and provides detailed presentations from prominent industry OEM's and experience sharing from peer member utilities.

Following the meeting, all presentation material is available for those that attended the conference.

## Research Value

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As a forum for collaboration and education, TGUG attendees gain understanding of emerging steam turbine generator issues facing the industry worldwide while learning of various solutions deployed by peer companies. TGUG fosters a proactive approach to achieve improvements in reliability, safety, and O&M cost reduction.

## Deliverables

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TGUG offers two meetings annually. Meetings are held at various locations in the U.S. Each 2½-day TGUG meeting is preceded by a two-day workshop with parallel tracks on steam turbines and generators. The workshop agendas include a range of presentations by plant staff as well as equipment manufacturers and service providers.

A variety of exclusive and focused working sessions are held throughout the TGUG meeting and workshop week. These sessions include vendor expositions open to all attendees of the meeting. Informal issue-based working group meetings are built within the schedule to focus on emerging issues and research feedback.

Additionally, the summer agenda includes a focus on Generator Monitoring topics and Steam Turbine focused tutorials.

TGUG members have access to all the past and current meeting presentations, which includes meetings that have been held since 2000.

## Price of Project

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Several options are available for members to participate in TGUG:

- Base-funded members of both Programs 219 Steam Turbines and Auxiliary Systems and Program 220 Generators and Auxiliary Systems are provided TGUG membership as part of their annual program membership.

- An EPRI funder with base membership in only one participating program, P219 or P220, will be required to pay a portion of the TGUG membership at a cost of \$10,000 per year.
- All other utility companies pay an annual membership of \$20,000 per year.

This project qualifies for Self-Directed Funding (SDF).

## Project Schedule

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Membership in TGUG is based on an adjusted calendar year (March thru March) with membership renewed each year. TGUG meetings are usually held the third week of January and the second week of August in the U.S. each year.

## Who Should Join

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Owners/operators/engineers of nuclear, fossil and combined-cycle steam turbines and generators can benefit from information exchanged at this user's group to enhance risk management and maintenance planning on steam turbine generator systems.

## Contact Information

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For more information, contact the EPRI Customer Assistance Center at 800.313.3774 ([askepri@epri.com](mailto:askepri@epri.com)).

## Technical Contact

Randy Steele at 689.263.0242 ([rasteele@epri.com](mailto:rasteele@epri.com))