

Secondary Side Chemistry Consulting

For Pressurized Water Reactor (PWR)

State-of-the-art secondary water chemistry minimizes corrosion and optimizes steam generator performance

Challenge

Corrosion phenomena as flow-accelerated corrosion (FAC), causing increase of corrosion product inventory combined with impurities ingress into the steam generator (SG), lowers the performance or even endangers system integrity. This lowers the plant availability and impedes safe and reliable nuclear plant operation.

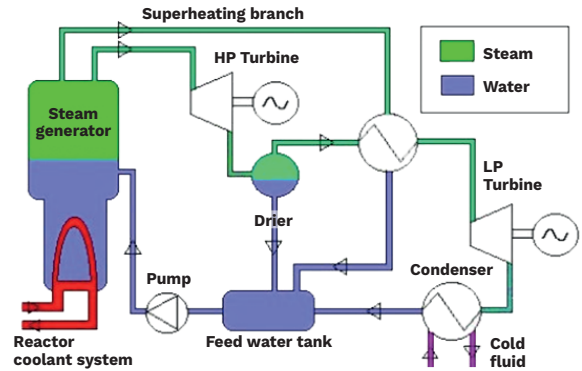
Solution

Our secondary side chemistry consulting for PWR facilitate prevention of secondary side components against corrosion degradation phenomena (e.g. FAC) and maintains a clean condition inside of the steam generators, reducing the risk of degradation phenomena. Application of advanced water-steam cycle chemistry measures like FFA or oxygen injection reduces corrosion product generation in the whole water-steam cycle and its transport into the SGs. Our root cause analysis focus on a forward looking program of continuous improvements rather than simple immediate correcting actions. Our recommendations base on assessments of the current specific situation (like SG cleanliness, hide-out return) and lead to the best suitable operational conditions.

Customer benefits

- Minimization of corrosion
- State-of-the-art chemistry measures applied at EPRTM reactor
- Best chemistry treatment
- Knowledge of manifold chemistry treatments and chemistry guidelines
- Tailored plant-specific studies in close cooperation with operators fitting your needs and requirements
- Close cooperation with materials experts
- Our international experience covers plant design of various original equipment manufacturers (OEMs)

Your performance is our everyday commitment



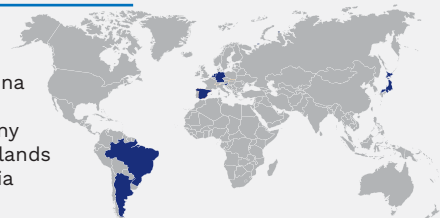
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Consulting Services

- Advanced water-steam cycle chemistry conditions (like PAA, FFA, Mixed Amine Treatment)
- Oxygenated Treatment for FAC prevention
- SG Health Assessment
- SG Hide-out return assessments
- Deposit analysis with focus on chemical composition and morphology
- Chemistry guidelines (EPRI, VGB)
- Chemistry specifications
- Compatibility assessments
- Root cause analyses
- Licensing support

References

- Brazil
- Argentina
- Spain
- Germany
- Netherlands
- Slovenia
- Japan



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