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Water Chemistry
Guideline

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Epri Water Chemistry Guideline

EPRI periodically updates the PWR water chemistry guidelines as new information

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becomes available and as required by NEI 97-06, Steam Generator Program Guidelines. The last revision of these Guidelines identified an optimum primary water chemistry program based on then-current understanding of research and field information.

PWR Primary Water Chemistry Guidelines

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EPRI to Revise Service Water System Chemistry Guidelines
“Currently, the EPRI chemistry guidelines contain limits based on concentration thresholds, also known as action levels. So, for a plant sample in which a contaminant exceeds a certain concentration, a specific action is taken. ‘Action level one’ may be to clean up the contaminant.

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This initiative references EPRI's Water Chemistry Guidelines, including this document, as the basis for an industry consensus approach to chemistry programs. Specifically, the initiative requires that US utilities meet the intent of the EPRI PWR Secondary Water Chemistry Guidelines.

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The focus of the NEI initiative is steam generator integrity.

EPRI EPRI TR-102134-R5 Non-proprietary version Electric Power

This fourth revision of the PWR Primary Water Chemistry Guidelines, endorsed by the utility executives of the EPRI Steam Generator Management Project, represents another step in developing a

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more proactive
chemistry program to
limit or control steam

PWR Primary Water Chemistry Guidelines

History of the EPRI
BWR Water Chemistry
Guidelines... Nine full
revisions of Guidelines
to date (blue boxes)
Interim Guidance
issued in 2010, 2011
and 2016 (light blue
boxes)

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Update on BWR Water Chemistry and Mitigation

U.S. nuclear plants must implement the EPRI Water Chemistry Guidelines. The Water Chemistry Guidelines provide water chemistry control and diagnostic parameters to assure materials and fuel-cladding integrity, minimize radiation fields affecting personnel dose,

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optimize major
component operation
for long term reliability,
and ensure
environmen-

IN USE: WATER CHEMISTRY GUIDELINES FOR ADVANCED ... - EPRI

EPRI updates industry
water chemistry
guidelines periodically
as new information
becomes available.
Previous versions of
these PWR Secondary

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Water Chemistry Guidelines identified a detailed water chemistry program deemed consistent with the then-current understanding of research and field information.

Pressurized Water Reactor Secondary Water Chemistry ...

review in 1999. The NRC has indicated that operation in compliance with the

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EPRI Water Chemistry Guidelines is an important factor in deferring inspections. Compliance in cases such as this refers to Section 4.3 Guidelines Values for Control Parameters. The control parameters that affect IGSCC include ECP, conductivity, sulfate and chloride.

**BWR Water
Chemistry**

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Guidelines - 2000 Revision

EPRI is updating and expanding a mid-1990s guidance document for improving chemistry control within open cooling water chemistry systems. The new document, which will include guidance for both nuclear and fossil plants, will be available by the end of 2012.

Chemical Addition

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Guideline - EPRI

The Electric Power Research Institute (EPRI) conducts research, development, and demonstration projects for the benefit of the public in the United States and internationally. As an independent, nonprofit organization for public interest energy and environmental research, we focus on electricity generation,

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delivery, and use in collaboration with the electricity sector, its stakeholders and ...

EPRI Home

A comprehensive guideline to the phenomenon of flow accelerated corrosion in boilers and HRSGs. Methods to assess potential, identify cases of Flow Accelerated Corrosion and relevant remedies are presented.

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EPRI_Guidelines for Controlling Flow Accelerated Corrosion ...

“Currently, the EPRI chemistry guidelines contain limits based on concentration thresholds, also known as action levels. So, for a plant sample in which a contaminant exceeds a certain concentration, a specific action is taken. ‘Action level one’ may

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be to clean up the contaminant. Higher levels may involve reducing the plant's power."

Water Chemistry in Nuclear Power: Smarter ... - EPRI Journal

The overall objective of the project was to consider the cycle chemistry requirements of fossil units with ACCs of direct cooling design

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and establish interim guidelines for units subject to high levels of iron transport when following the EPRI guidelines for units with water-cooled condensers. To satisfy this objective it was necessary to: •

EPRI's Guideline on Chemistry for Fossil Units with Air ...

The Electric Power
Research Institute's
(EPRI's) Boiler and

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Turbine Steam and Cycle Chemistry Program (Program 64) offers guidelines, technology, and training materials to help plant operators manage water-steam chemistry, reduce unplanned outages and operations and maintenance (O&M) costs, and improve unit economics.

**2013 Portfolio /
Boiler and Turbine**

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Steam and Cycle ... - EPRI

EPRI Water Chemistry
Guidelines Background

- Review Required per BWRVIP and SGMP
- Supporting NEI 97-06 and NEI 03-08
- Review starting two years after a published revision, and then each year until next revision started
- Review Addresses: -Do the identified issues necessitate a GL revision

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PWR Primary Water Chemistry Guidelines

EPRI's Cycle Chemistry Guidelines for Shutdown, Layup, and Startup identify the keys to protecting the water- and steam-touched components of today's assets in a manner consistent with operating chemistries and shutdown requirements. This report includes a

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guidance roadmap that allows users to assess and apply four types of protection.

Materials & Chemistry Report - EPRI

Guidelines for cooling water chemistry during operation and layup for water-cooled generators. TGD9-18
Air In-leakage in Steam-Water Cycles: 2018:
Guidelines on the detection and

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measurement of air in-leakage (AIL) in reference to the optimum cycle chemistry control and maximum thermal cycle efficiency in a wide range of generating plants.

Technical Guidance Documents for Cycle Chemistry

Four basic types of cycle chemistry programs are described by EPRI,

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ASME, the International Association for the Properties of Steam and Water, and other entities. They are phosphate treatment,...

Selecting a Combined Cycle Water Chemistry Program

The Electric Power Research Institute's (EPRI's) Boiler and Turbine Steam and Cycle Chemistry

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Program (Program 64) offers guidelines, technology, and training materials to help plant operators manage water-steam chemistry, reduce unplanned outages and operations and maintenance (O&M) costs, and improve unit economics.

2012 Portfolio: Boiler and Turbine Steam and Cycle Chemistry

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While water chemistry is crucial for all steam-electric plants, noted EPRI's Wells, nuclear plants have some unique problems. That stems from the fact conventional light-water reactors have water...

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