

# Nuclear Safety Research

# Chemical Processes -

# Introduction

S Nicholson

# Regulatory Goals

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Understanding chemical processes important to:

- Maintaining structural integrity, containment
- Restricting operator doses
- Minimising radioactive waste



# Nuclear Research Index

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Chemical processes section reviewed and updated 2004.

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Chemical processes section reviewed and updated 2004.

Main areas now are:

- PWR primary coolant chemistry
- AGR primary coolant / graphite
- Reactor secondary coolant and auxiliary systems

# Two presentations by industry

- BNG (Magnox Electric and Nexia Solutions)  
control of Cs levels in ponds –  
magnox corrosion
- BE  
AGR boilers (primary and secondary side)  
PWR primary coolant chemistry