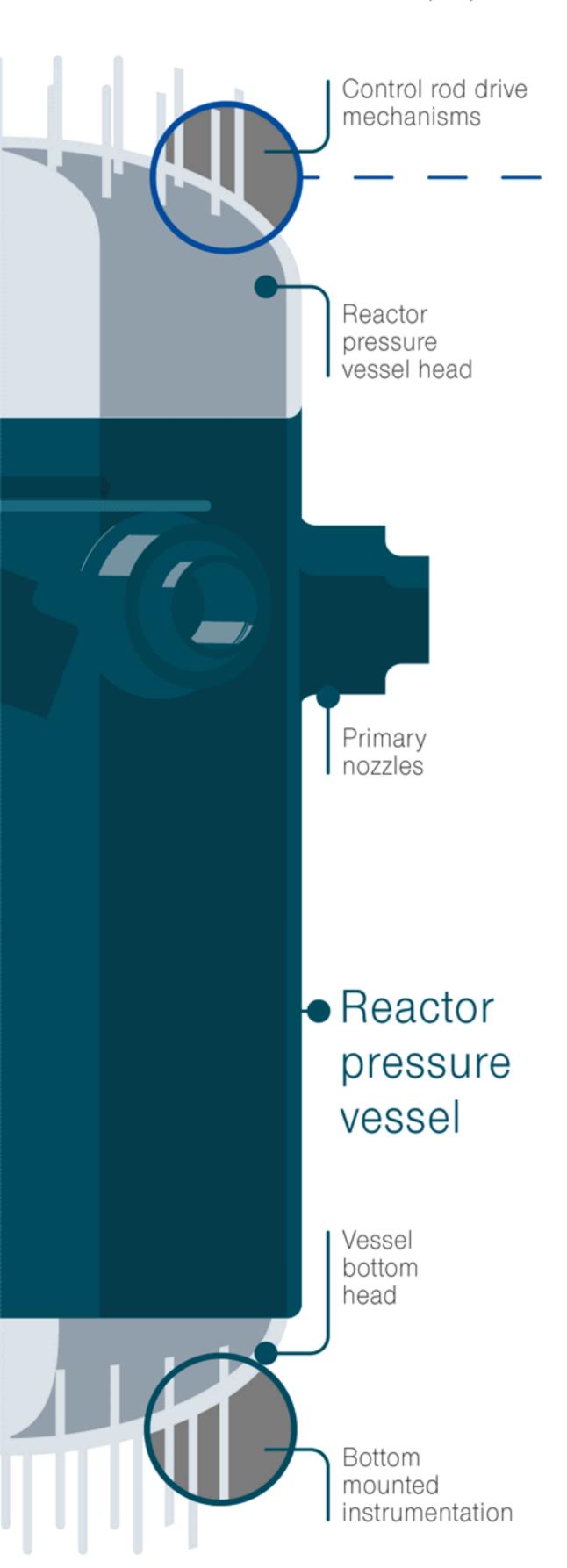
## WHAT IS CAVITATION PEENING?



This new maintenance technique significantly extends the life of the primary circuit components by improving their material properties and enhancing their resistance to corrosion. It can be applied to pressurized water and boiling water reactors.



## What is it used for?

To fight against primary water stress corrosion cracking caused by a combination of three factors:



A susceptible material:
Alloy 600



Tensile stresses:

At the welded surface during the manufacturing stages



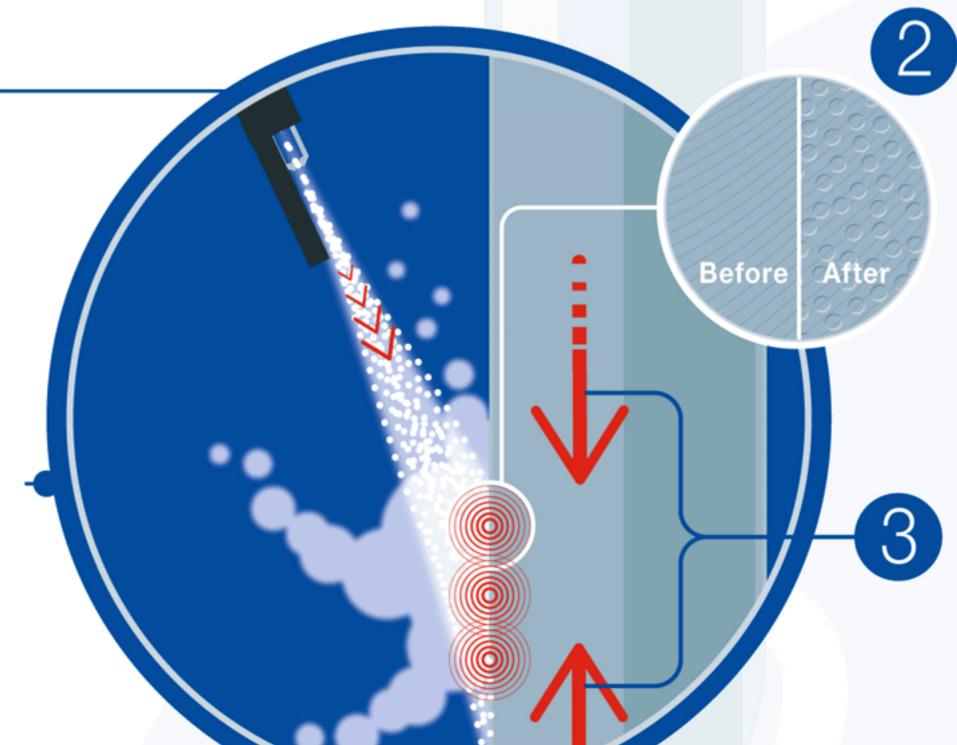
A corrosive environment:

Borated water at a high temperature and pressure

## How does it work?

High pressure water spray generating cavitation bubbles

Example of process application



Implosion of cavitation bubbles peening the surface of the component

Introduce compressive stresses to offset the tensile stress

## What are the benefits?



Extend the life of nuclear reactor components









