

# Robot-assisted Analysis Procedure for hydrogen content determination of irradiated fuel cladding

AT PSI HotLab, the measurement of hydrogen content in annular samples of irradiated cladding is carried out using a LECO RH-402 analyzer installed in a shielded cell fitted with standard remote handlers. A new type of shielded cell was designed, fitted with a LECO ROH-600 and a ABB IRB120 six-axis robot arm to reduce cell size and weight. All handling requirements are fulfilled by the robot, saving time and space for the analysis technique. The poster present

- Handling requirements for the robot
- Cell design around the robot's workspace
- Drawing and picture aspects of the cell
- Excerpts of the RAPID program
- Movement path of the robot arm

