



A.N.T. International Academy

ONLINE EDUCATION

CRUD in PWR/VVER Coolant – Vol. II

COURSE DESCRIPTION

The purpose of this course is to describe the tools and their application to adequately control the coolant crud in order to improve the fuel and out-core radiation performance. There is an associated course which describes solubility, transportation, deposition and release of crud that helps to better understand the crud behaviour under PWR/VVER/CANDU operating conditions. The information given in this and the associated course:

- Can support the plant chemists to establish their coolant chemistry strategy to achieve the plant specific goals.
- Is valuable for fuel vendors and plant fuel engineers to understand the influence of coolant chemistry on fuel performance.



The content is described more in the [Appendix](#).

AUTHORS/LECTURERS

The authors/lecturers of the reports and lectures, World Class Experts in their fields, are as follows:

Dr. Suat Odar

[Read more about the Experts](#)

COURSE DURATION

- Total time: around 8 hours
- Reading: 3 h
- Lectures: 5 h

The listed time for the lectures is the actual running time. More time may be needed to digest the information provided in this course.

CERTIFICATE

You will automatically receive an email with your certificate that you can print or share on social media. If you need a printed certificate, please don't hesitate to contact us and we can send it to you via regular mail. You reach us at support@antinternational.com.

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Appendix: Course outline and topics covered

1) COOLANT CRUD BEHAVIOUR

- » CRUD sources
- » CRUD release, transportation and in-core deposition
- » Core CRUD release & radiation field build-up

2) PREVENTIVE TOOLS FOR CRUD & RADIATION FIELD CONTROL

- » Plant design phase
- » Hot Functional Tests

3) MITIGATING TOOLS FOR CRUD & RADIATION FIELD CONTROL

- » Power operation by coolant chemistry
- » Plant shutdown operation

4) ACTIVE CLEANINGS FOR CRUD & RADIATION FIELD CONTROL

- » High temperature mechanical filtration (VVER 1000 strategy)
- » Chemical & mechanical decontaminations
- » Fuel CRUD removal

5) CONCLUSIONS



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