



## Nuclear Standard Training (ASME and RCC-M)

Ensuring correct understanding and utilization of related standards

### BUSINESS CHALLENGE

Due to the increasing demand for electricity, additional new generation nuclear power plants are planned to be built, which should be reliable, have long lifetimes and generate energy at competitive costs without producing any carbon dioxide.

Also, international regulations and nuclear quality assurance systems are increasingly requiring application of international standards during the construction of nuclear plant, such as ASME and RCC. These standards are relatively new to the Chinese domestic manufacturers, especially those new comers in nuclear industry.

How to correctively understand and utilize these standards are more and more a challenge to them.



### SOLUTION

#### What is the difference for the standard training provided by Bureau Veritas?

Bureau Veritas has a nuclear expert network world wide, with rich experience on nuclear equipment inspection and certification. They have in depth understanding of international nuclear standards, and can interpret standards from a perspective of third party, so that can give highly effective training. They can at the same time bring the best practice of nuclear industry in Europe and North America, so that give high value added advices during the training.

- The RCC-M training is provided jointly with AFCEN. Each training session will be given by senior nuclear engineer from both AFCEN and Bureau Veritas Paris office.

- The ASME training is provided through ONE/TUV/BV, the subsidiary of Bureau Veritas in Germany. Each training session will be given by ASME ANI from ONE/TUV/BV and also the ASME AI from Bureau Veritas China.

#### What are the key benefits?

- Corrective understanding of related codes and standards.
- Effective utilization of the related codes and standards during the whole construction period, covering design, procurement, manufacturing, installation till commissioning.



### RELATED SERVICES

A wide offering

In addition to Training , Bureau Veritas offers a wide range of related services.

- Calculations for design review
- Review of manufacturing documents
- Inspection for qualifications
- Inspection of all manufacturing sequences including procurements
- Assistance for complete piping
- Inspections for new nuclear power plants
- Audits
- Technical support



BUREAU  
VERITAS

Move Forward with Confidence

## WHY CHOOSE BUREAU VERITAS?

**Recognition** ■ Founded in 1828, Bureau Veritas is the worldwide leader specialized in QHSE and social responsibility services. Certified to ISO 9001 for all of its activities throughout the world, Bureau Veritas actively participates within professional authorities, helping develop international standards and regulations.

**Knowledge** ■ Solid practical knowledge of all quality, health & safety and environmental codes, standards and regulations applicable in the nuclear industry.

**Network** ■ With a network of more than 900 offices and laboratories and over 40,000 employees in more than 140 countries, Bureau Veritas serves 300,000 customers in many different industries across the world.

**Reporting** ■ Our clients have access to a powerful web-based reporting tool, BVnet. This password-secured extranet exists in English, French and Chinese and allows clients to display and download reports, schedule follow-up visits and track the progress of findings.

## FAQ

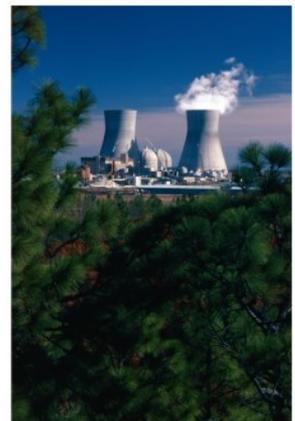
### What organization and skills, specific to nuclear technology, can Bureau Veritas provide?

For manufacturing of nuclear components such as primary and/or secondary ones, Bureau Veritas has set up a nuclear inspector network in Asia, Europe and the Americas. Inspectors are trained jointly with our clients. Our inspectors are qualified and knowledgeable in a wide variety of standards including ASME, RCC-M and PED.

## CLIENT REFERENCE

Bureau Veritas has earned the confidence of many significant clients on numerous major projects including:

- Qinshan phase I-PWR: material inspection, document review, manufacturing surveillance welding qualification for CRDM Manufacturing design
- AP 1000 in China (Sanmen and Haiyang) first 2 reactors: As second party inspector to control the raw material, manufacturing and installation of reactor CV and also the forging components for A1 class equipments
- RCC-M 2007 Version training: 2 sessions have been organized in 2008, with more than 100 participants from various companies in Chinese nuclear industry
- EPR in Finland (Olkiluoto 3 project) / STUK / TVO: As inspection organization for components such as piping, heat exchangers, pumps, valves. As third party inspector for verification of reactor pressure vessel manufacturing performed in Japan
- EPR in France: welding procedure qualification and welder qualification services for a new 1,600 MW NPP in France
- CREUSOT-FORGE: forgings manufacturing surveillance
- MHI: steam generators manufacturing inspections for EDF



## ▶ CONTACT

Email: [webchina@cn.bureauveritas.com](mailto:webchina@cn.bureauveritas.com)  
Tel: + 86 (21) 6886 0643  
Fax: + 86 (21) 6886 1421

## ▶ FOR MORE INFORMATION

Please visit:

[www.bureauveritas.cn](http://www.bureauveritas.cn) (China)  
[www.bureauveritas.com](http://www.bureauveritas.com) (Global)