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Building a Scientifically Based Knowledge for Operating the Ninh Thuan NPP in Vietnam: Case Study on the Aspects of Water Chemistry

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In preparing for the first Nuclear Power Plant in Vietnam, as part of the Quality Assurance, it is important to educate and train the staffs of the plant beforehand. Such training includes, amongst other important subjects, the scientific background on the complex processes, the operational safety, use of the instruments for reading/controlling parameters, evaluation of these data, the quality management system, and staff responsibilities and interactions during routine and non-routine activities.

This paper refers to the one aspect of operating a Nuclear Power Plant: The water chemistry. Various important parameters of the plant, such as reactivity, corrosion rate, dose rate, material stress, interreaction and/or behaviour between water coolant and materials, filter lifetime, and heat exchanger efficiency can be influenced and/or controlled in terms of water composition, radionuclides arising during starting stage, during operation and in shutdown stage, its pH, additives, water management and purification. Also, ecologic considerations play an essential role. We report here about a project to establish such education and training as one of the missions of our Institute in terms of support for the new Nuclear Power Plants in Vietnam.

Country or International Organization

Vietnam

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