

OSART Good Practices
ACCIDENT MANAGEMENT
Use of PSA, PSR and OEF

Kashiwazaki 6/7, Japan

Mission Date; 29 Jun.-13 Jul., 2015

Using analysis proactively to enhance plant design for design extension conditions

PSA and other analyses have been performed to determine the potential benefits of design modifications in the conceptual stage of design.

As an example, preliminary analysis performed indicated a substantial reduction in dose would be achieved for operators in the MCR and response workers in the field if a combination of filtered vent, iodine filter, and pH control in the primary containment was established.

Based on these insights, an iodine filter will be installed and a system is being designed to inject sodium hydroxide into the primary containment using the MUWC system for pH control.

This proactive analysis is expected to significantly improve on and off site does in the event of a severe accident, alleviating emergency response and reducing dose.