ABB ATOM PROJECT - ALARA 2000

**Keywords:** OPERATIONAL AND MAINTENANCE TECHNIQUES; EXPOSURE REDUCTION; FUEL FAILURE; EVALUATION OF DOSE RATE; NUCLIDE SPECIFIC MEASUREMENTS; CORROSION PRODUCTS MASSBALANCE

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**Objectives:** To reduce the annual exposures to 50% of the 1993 level. Three to five parameters that dominate the annual exposure shall be identified. Suggestions to plant specific measures for reducing the dose rates shall be provided to the outages in 1994.

**Comments:** The project is ordered by TVO, Oskarshamn 1, 2 and 3, Barseback 1 and 2, and Ringhals 1. The motivation for the project are increasing annual exposures. The project is separated into three parts: mapping of the future expected radiological conditions, mass balances of corrosion products, and evaluation of dose rate and nuclide specific in-site measurements.

**Remarks/Potential for dose limitation:** The effect of fuel failures on the radiation dose rates in a plant will be estimated. Different types of failures will be treated.

**References:** A presentation of the ABB Atom ALARA projects will be given at the "International Workshop on Implementation of ALARA at Nuclear Power Plants," to be held on Long Island, New York, May 1994. Proceedings will be available from the NRC after the workshop.

**Duration:** from: 1993 to: 1995  
**Funding:** 2.5 py

**Status:** In progress  
**Last Update:** December 9, 1993