

“Summary Report of the EPRI Standard Radiation Monitoring Program”

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This is the presentation about the current situation of currently resumed SRMP : Standard Radiation Monitoring Program. SRMP is started to support the measures for dose reduction focusing on PWR in WH type. SRMP enabled to collect and record standardized radiation data. After that, SRMP extended to include CE type; however, decrease in the interest of utilities and financial difficulties suspended the program after 1996. However, RP2020 Action Plan for Dose Reduction was started, and as a part of that, SRPM was resumed. RP2020 Action Plan includes some breakthrough in radiation protection and source term reduction etc, and EPRI will take the lead.

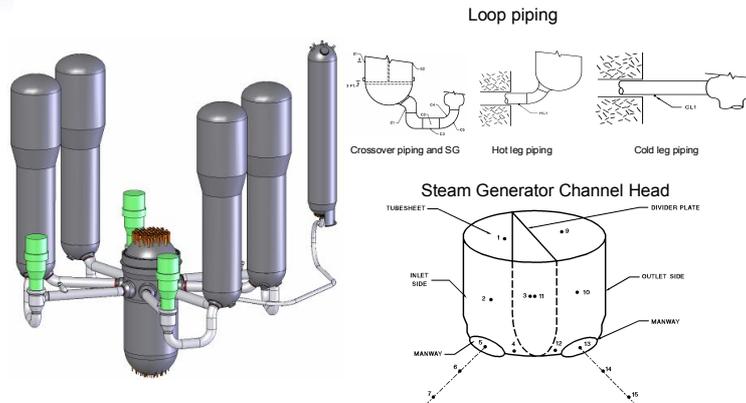
The goals of resumed SRMP include;

- To make it possible to use already accumulated data, the measurement point is not changed. (main cooling pipe Hot Leg, Cold Leg and the center of SG Channel Head),
- The procedure for monitoring is simplified, clarified, and standardized.
- Data will be systemized and available on database, and then connected with water chemistry management, and design parameter,
- Inclusion of measured data of PWR in B&W type,
- Adaptation of Etching Marker,

In the beginning of 2006, questionnaires are distributed to utilities and Loop Piping is the average data rate at 58.5% and Channel Head is the average data rate at 42.2% in the total data rate of power stations including all radiation dose data during shutoff. The rate of data collection is high for PWR in WH type but the data rate is low for CE type and B&W type, which is inadequate for quantitative analysis; therefore the further data is necessary to be collected for benchmarking. When look at preliminary statistics by the collected data, standard deviation is very wide and the data is vary so that it is unlikely to conclude clearly; however, the fact that Cold Leg has higher radiation dose than Hot Leg was confirmed in U.S. PWR of WH type and CE type .

In the future, trend of dose rate will be assessed. Addition to that, by using SRPM database, PWR water chemistry database of EPRI and unified database, the management of water quality among stations, the influence on radiation dose of stream generating materials and core reactor load will be assessed

Westinghouse Monitoring Points



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Current US Survey Results

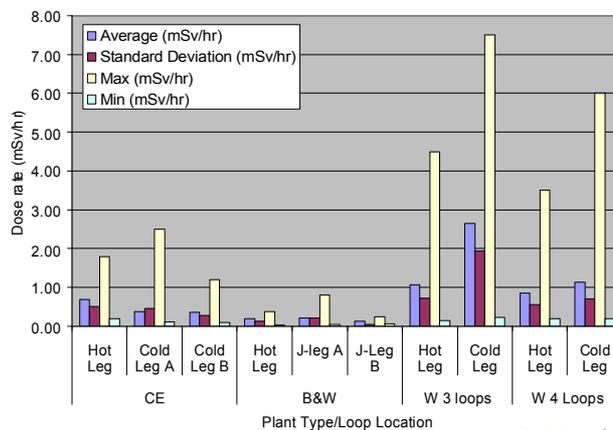
Parameter/Plant Type	W	CE	B&W	Total
Plants	33/48	5/14	5/7	43/69
Total Number of Outages	982	275	180	1437
Loop Dose Rate Measurements	733	60	48	841
Channel Head Dose Rate Measurements	538	27	42	607
% Loop Measurements Received	74.6	21.8	26.7	58.5
% Channel Head Measurements Received	54.8	9.8	23.3	42.2

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Summary Statistics: Loop Piping—Hot Leg and Cold Leg



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