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ISOE INFORMATION SHEET

JAPANESE OCCUPATIONAL EXPOSURE DURING PERIODICAL INSPECTION at LWRs ENDED in FY 1994

ISOE Asian Technical Center - NUPEC Information Sheet No. 2

This ISOE information sheet presents the Japanese occupational exposure results during the periodical inspection at LWRs ended in FY 1994, and trends from FY 1986 to FY 1994 by reactor type or by Japanese plant type, i.e. Conventional type/Improved type.

Tables 1 and 2 give the average collective dose per reactor during periodical inspection ended in FY 1993 and FY 1994 for PWRs and BWRs.

The year 1994 has been marked by an improvement in dosimetric results in the Improved Type Plant. The result of BWR Conventional Type increased because of the work under the high radiation dose rate environment, for example, replacement of PLR piping, maintenance of nozzle or so.

Figures 1 to 4 show the average collective dose per reactor by reactor type and by plant type (Conventional/ Improved type) from FY 1986 to FY 1994.

The Japanese plants are listed in Tables 3 and 4 by reactor type and by plant type.

Table 1. PWRs average dose results during periodical inspection ended in FY 1993 and FY 1994

Plant type	Average coll. dose (in person-Sv)	
	FY 1993	FY 1994
Conventional type	2.57	2.59
Improved type	0.84	0.71
Total PWR	1.91	1.59

Table 2. BWRs average dose results during periodical inspection ended in FY 1993 and FY 1994

Plant type	Average coll. dose (in person-Sv)	
	FY 1993	FY 1994
Conventional type	3.71	4.77
Improved type	1.22	0.85
Total BWR	2.82	2.42

Figure 1 Average Dose during Periodical Inspection by Reactor Type
(Collective Dose per Reactor)

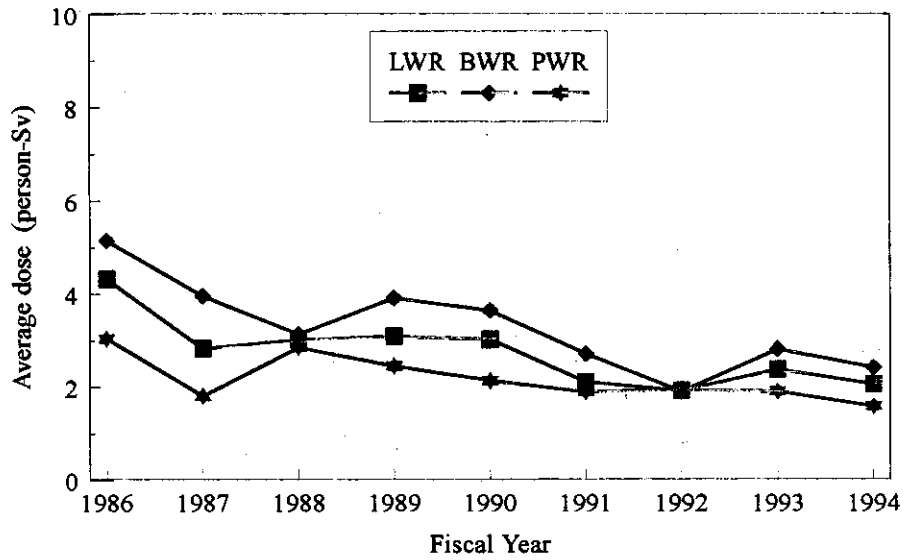


Figure 2 Average Dose during Periodical Inspection of LWR
(Collective Dose per Reactor)

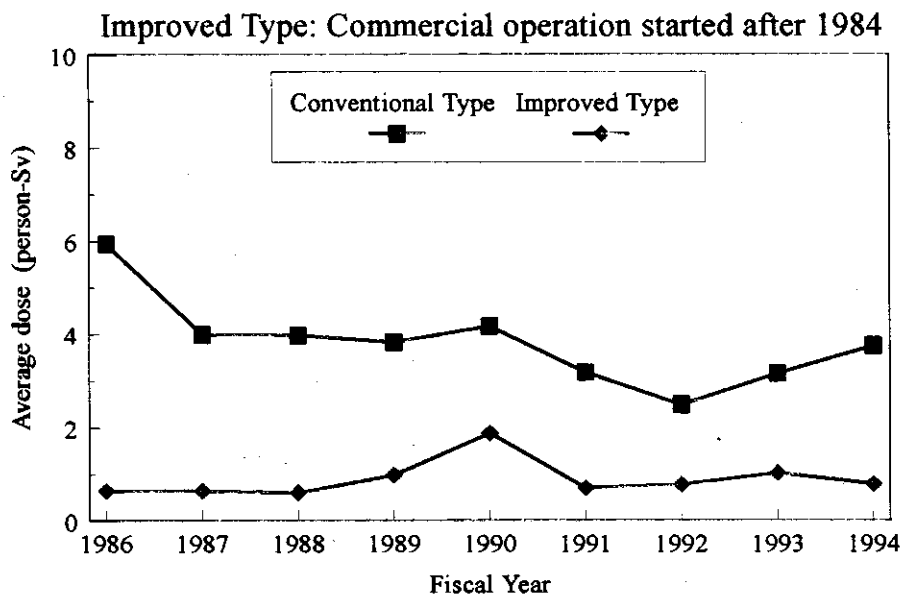


Figure 3 Average Dose during Periodical Inspection of PWR
(Collective Dose per Reactor)

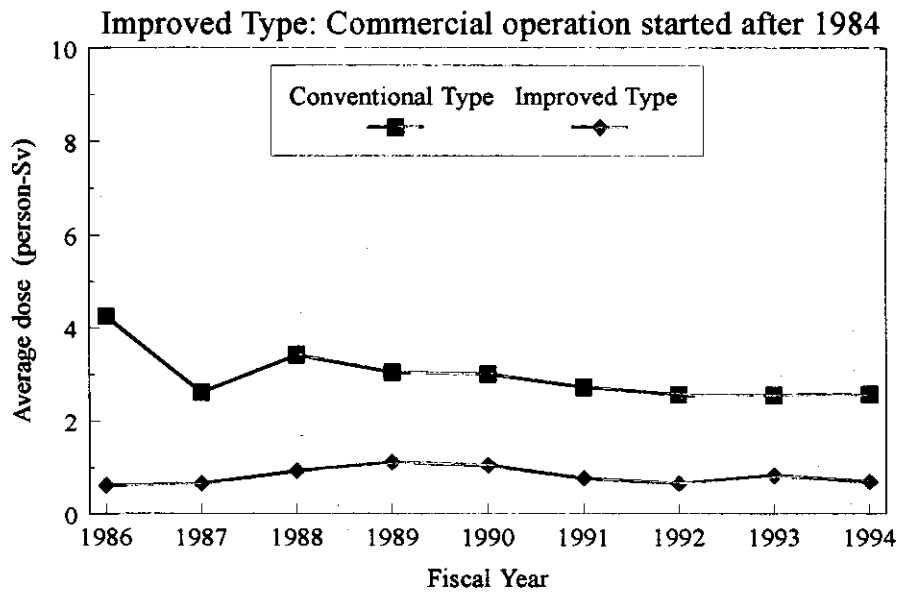


Figure 4 Average Dose during Periodical Inspection of BWR
(Collective Dose per Reactor)

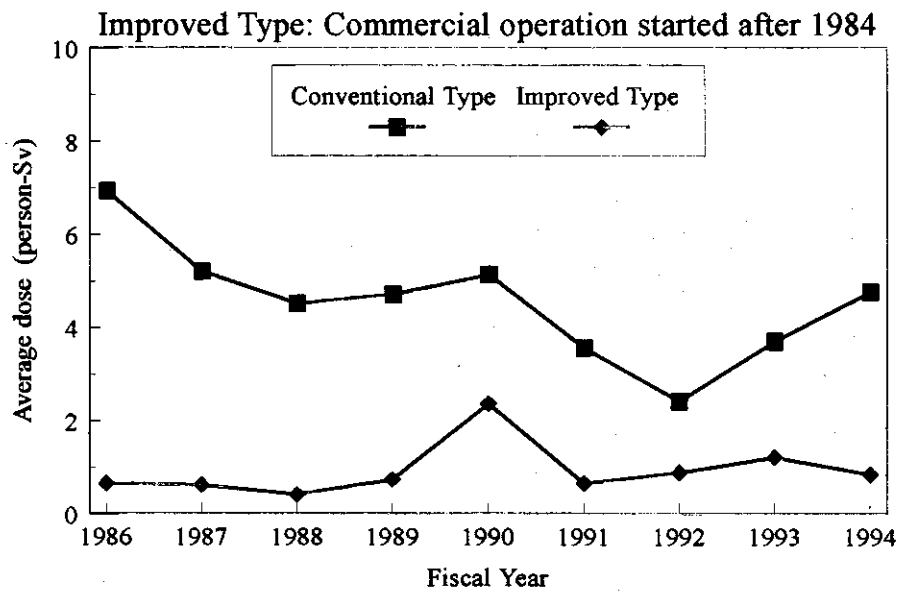


Table 3 Conventional Type of Japanese Nuclear Power Plants
(As of the end of September 1995)

Plant Size	BWR		PWR	
<600 MWe	Fukushima Daiichi	Unit 1 (FY 1970)	Mihama	Unit 1 (FY 1970)
	Hamaoka	Unit 1 (FY 1975)	Mihama	Unit 2 (FY 1972)
	Shimane	Unit 1 (FY 1973)	Ikata	Unit 1 (FY 1977)
	Tsuruga	Unit 1 (FY 1969)	Ikata	Unit 2 (FY 1981)
			Genkai	Unit 1 (FY 1975)
			Genkai	Unit 2 (FY 1980)
600-1000 MWe	Fukushima Daiichi	Unit 2 (FY 1974)	Mihama	Unit 3 (FY 1976)
	Fukushima Daiichi	Unit 3 (FY 1975)	Takahama	Unit 1 (FY 1974)
	Fukushima Daiichi	Unit 4 (FY 1978)	Takahama	Unit 2 (FY 1975)
	Fukushima Daiichi	Unit 5 (FY 1978)		
	Hamaoka	Unit 2 (FY 1978)		
>1000 MWe	Fukushima Daiichi	Unit 6 (FY 1979)	Ohi	Unit 1 (FY 1978)
	Fukushima Daini	Unit 1 (FY 1982)	Ohi	Unit 2 (FY 1979)
	Tokai	Unit 2 (FY 1978)		
Total	12 units		11 units	

Table 4 Improved Type of Japanese Nuclear Power Plants
(As of the end of September 1995)

Plant Size	BWR		PWR	
<600 MWe	Onagawa	Unit 1 (FY 1984)	Tomari	Unit 1 (FY 1989)
	Shika	Unit 1 (FY 1993)	Tomari	Unit 2 (FY 1991)
600-1000 MWe	Shimane	Unit 2 (FY 1988)	Takahama	Unit 3 (FY 1984)
	Onagawa	Unit 2 (FY 1995)	Takahama	Unit 4 (FY 1985)
			Sendai	Unit 1 (FY 1984)
			Sendai	Unit 2 (FY 1985)
>1000 MWe	Fukushima Daini	Unit 2 (FY 1983)	Ohi	Unit 3 (FY 1991)
	Fukushima Daini	Unit 3 (FY 1985)	Ohi	Unit 4 (FY 1992)
	Fukushima Daini	Unit 4 (FY 1987)	Genkai	Unit 3 (FY 1993)
	Kashiwazaki-Kariwa	Unit 1 (FY 1985)	Ikata	Unit 3 (FY 1994)
	Kashiwazaki-Kariwa	Unit 2 (FY 1990)	Tsuruga	Unit 2 (FY 1986)
	Kashiwazaki-Kariwa	Unit 3 (FY 1993)		
	Kashiwazaki-Kariwa	Unit 4 (FY 1994)		
	Kashiwazaki-Kariwa	Unit 5 (FY 1990)		
	Hamaoka	Unit 3 (FY 1987)		
Hamaoka	Unit 4 (FY 1993)			
Total	14 units		11 units	

(Notes)

1. Improved Type Plants indicate the Plants started commercial operation in and after Fiscal Year 1993.
2. Figures in () indicates Fiscal Year of starting commercial operation.