



November, 2013

## ISOE INFORMATION SHEET

### **JAPANESE DOSIMETRIC RESULTS: FY 2012 DATA AND TRENDS**

#### **ISOE Asian Technical Center - JNES Information Sheet No. 37**

This ISOE information sheet presents the Japanese occupational exposure results in Fiscal Year (FY) 2012 and trends from FY 1993 to FY 2012 for commercial reactors which include PWRs, BWRs and a GCR. \*

Tables 1 and 2 give the total collective doses and the average collective doses per reactor for PWRs, BWRs and LWRs, respectively, ended in FY 2011 and FY 2012.

Some Japanese NPPs located in the east area were damaged by the huge earthquake and tsunami in March 11, 2011. Large dose for BWRs is due to the accident of Fukushima Dai-ichi NPS. Almost all reactors stopped operation one by one in FY 2011 for the periodic inspection and only three PWRs operated in FY 2012.

Figures 1 to 5 show the trends from FY 1993 of the total collective dose and the average individual dose etc. in Japan.

Please note that these figures includes the decommissioning stage reactors, 2 BWRs have been decommissioning since November 18, 2009 and 4 BWRs were also shutdown permanently in April 19, 2012. In addition, the exposure data of figures 1 to 5 is based on the

official announcement of Japan, because the exposure data for Fukushima Dai-ichi from FY 2010 to FY 2012 is not included in the ISOE database.

**Table 1. Total collective dose in FY 2011 and FY 2012**

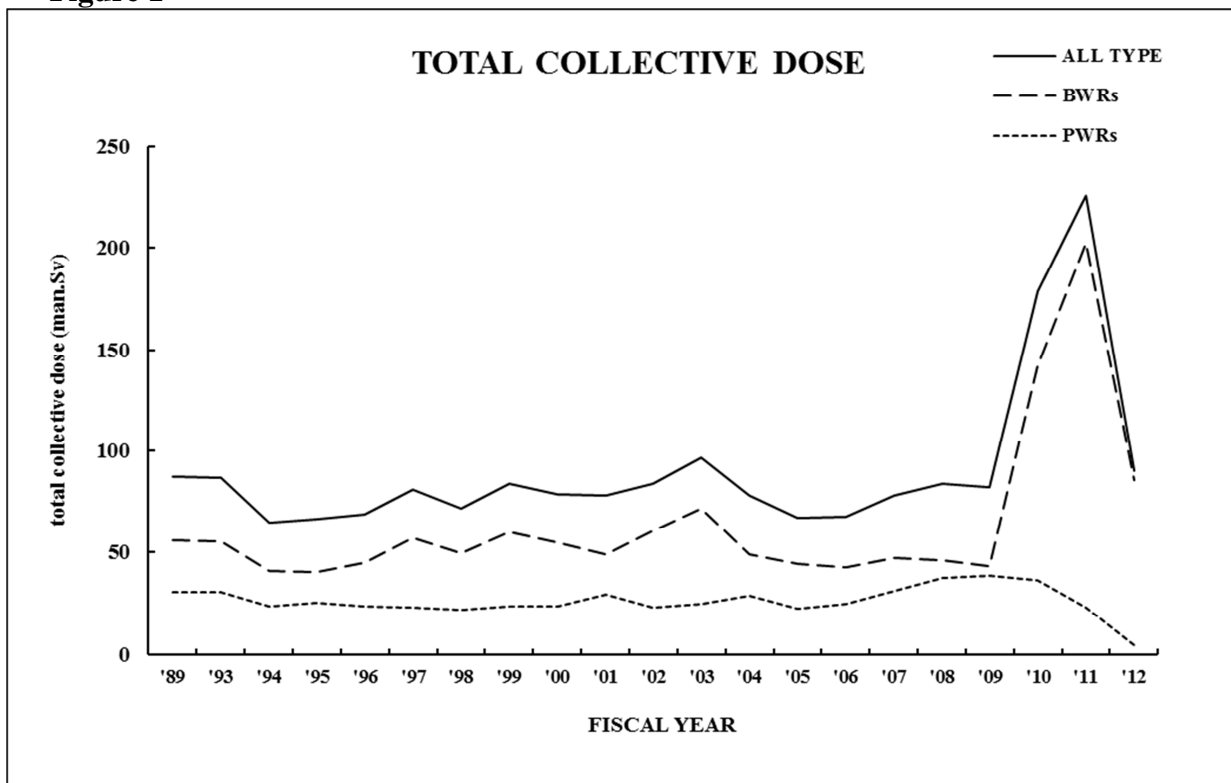
Reactor Type	Total Collective Dose (man.Sv)	
	FY 2011	FY 2012
PWRs	23.12	4.24
BWRs	202.76	85.85
Total(LWR)	225.88	90.09

**Table 2. Average collective dose per reactor in FY 2011 and FY 2012**

Reactor Type	Average Collective Dose (man.Sv)	
	FY 2011	FY 2012
PWRs	0.96	0.18
BWRs	6.34	2.68
Total(LWR)	4.03	1.61

\* GCR; The Tokai NPS, the sole GCR in Japan ceased commercial operation in March 31, 1998.

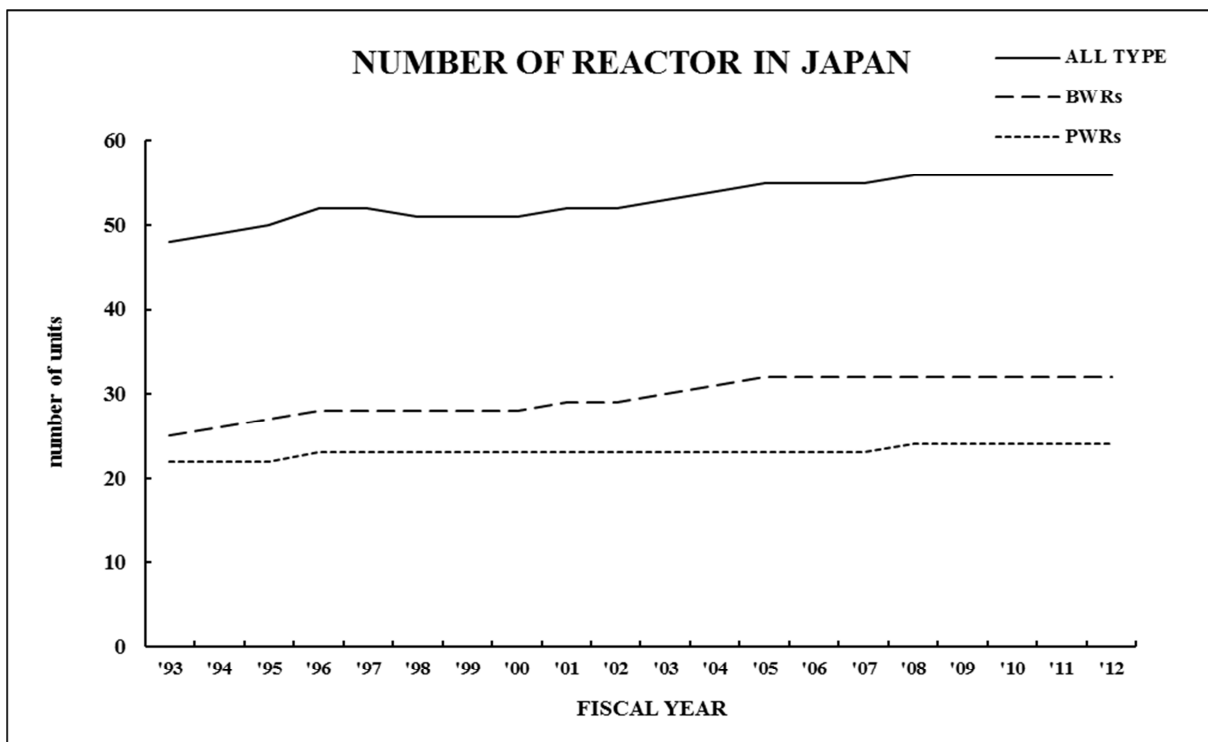
Figure 1



\* GCR is included before FY1998.

\* \*BWRs includes 6 reactors which are in permanent shutdown.

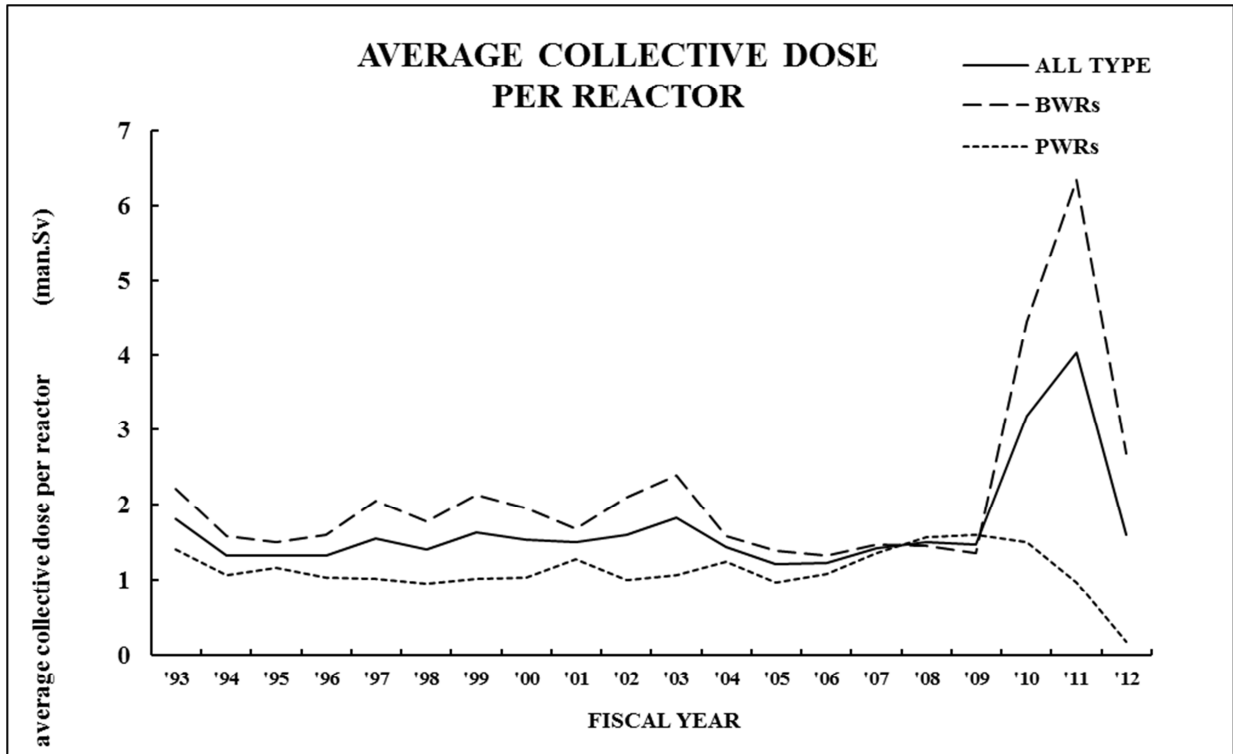
Figure 2



\* GCR is included before FY1998.

\* \*BWRs includes 6 reactors which are in permanent shutdown.

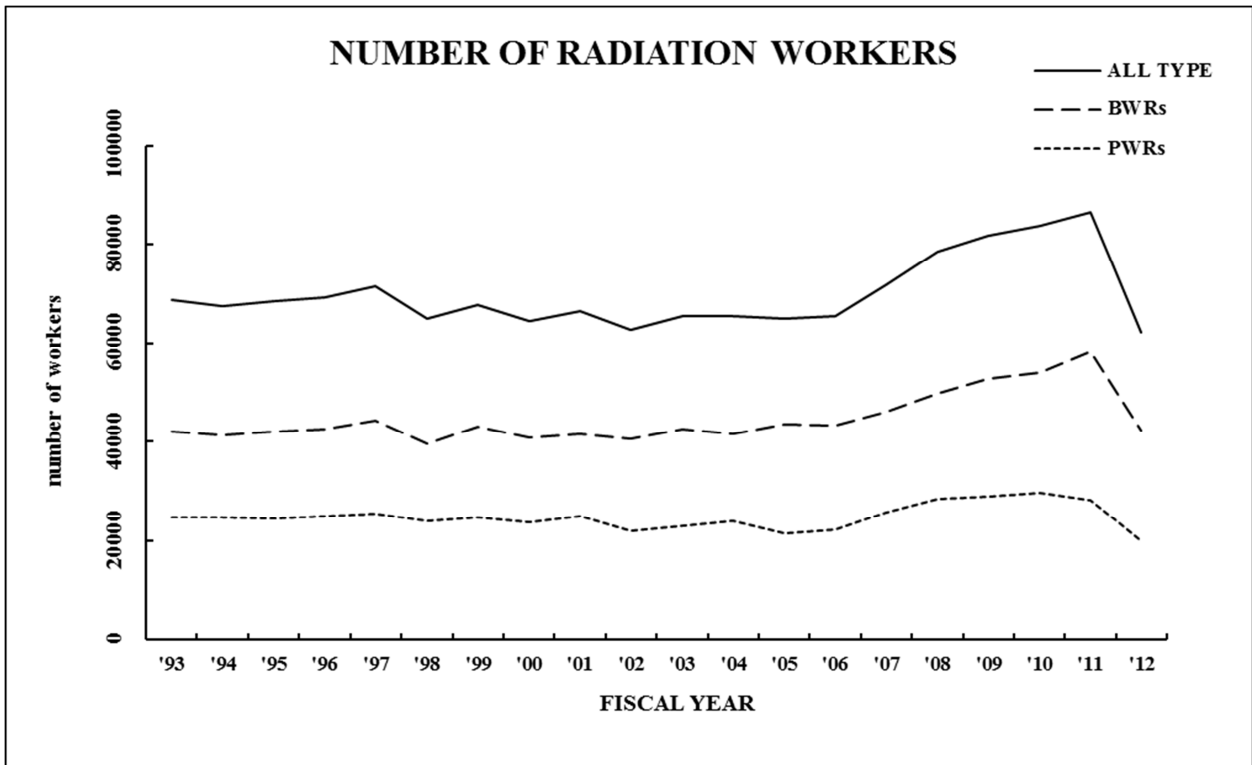
Figure 3



\* GCR is included before FY1998.

\* \*BWRs includes 6 reactors which are in permanent shutdown.

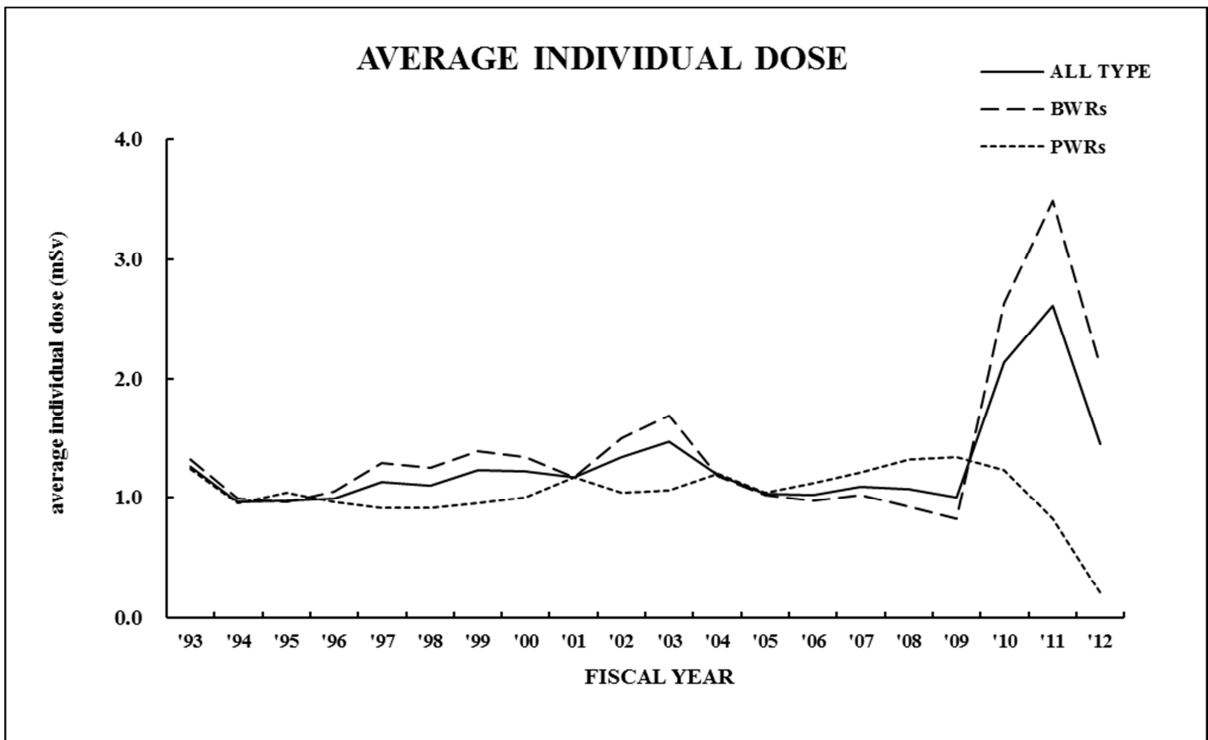
Figure 4



\* GCR is included before FY1998.

\* \*BWRs includes 6 reactors which are in permanent shutdown.

Figure 5



\* GCR is included before FY1998.

\* \*BWRs includes 6 reactors which are in permanent shutdown.