

CENTER FOR RADIOISOTOPE FACILITIES

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The technical and supporting staffs of the Center for Radioisotope Facilities (CRF) maintain three controlled areas according to Japanese law. The CRF is responsible for monitoring the purchase of radioisotopes from JRA (Japan Radioisotope Association) and the transfer of radioisotope wastes to JRA.

Matsuda, Iinuma, Ito, and Kaneuji maintain CFBI (Common Facilities Building I)-branch and LGER (Laboratory of Gene Expression and Regulation)-branch at the Myodaiji-Area, and Ogawa, Sawada, Katagiri, and Kamiya work at the Yamate-Area.

The numbers of registrants and users from January 2005 to November 2005 are presented in Table 1.

Users counted by the monitoring system going in and out of the controlled areas numbered 4,485 persons during this period. The percentages and numbers for each area are shown in Figure 1 and Table 2. The annual changes of registrants and the number of totals per year are shown in Figure 2.

The balance of radioisotopes received at the CRF is shown in Table 3. No ¹²⁵I was used at Myodaiji-Area.

The Yamate-Area has passed the periodical inspection by the Nuclear Safety Technology Center. The same inspection will be carried out at the Myodaiji-Area 2005 on December 16th, 2005.

The air supply system of CFBI-branch was repaired in order to decrease the amount of dust from the air supply duct ports (Figure 3) and increase the comfort of those working at CFBI-branch's controlled rooms.

Table 1. Numbers of registrants and users at Myodaiji-Area and Yamate-Area in the 2005

	Myodaiji-Area	Yamate-Area
registrants	137	113
users	66	50

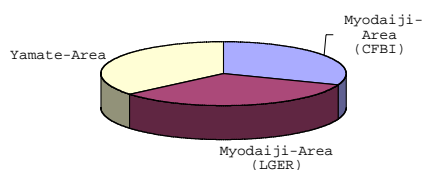


Figure 1. Percentage of users going in and out of each controlled area in 2005

Table 2. The numbers of users and visitors who entered each controlled area in 2005

	Myodaiji-Area		Yamate-Area	total
	CFBI-branch	LGER-branch		
users	1167	1412	1444	4023
visitors	215	74	173	462
total	1382	1486	1617	4485



Figure 2. Annual changes of registrants and number of totals per fiscal year

Table 3. Balance of radioisotopes received and used (MBq) at each controlled area

	Myodaiji-Area		Yamate-Area	total
	CFBI-branch	LGER-branch		
¹²⁵ I Received	0.000	0.000	2220.000	2220.000
¹²⁵ I Used	0.000	0.000	2590.000	2590.000
³⁵ S Received	18500.000	265000.000	64750.000	348250.000
³⁵ S Used	9990.000	132500.000	39868.701	182358.701
³² P Received	185000.000	841750.000	1082250.000	2109000.000
³² P Used	139860.000	711500.000	958672.000	1810032.000
¹⁴ C Received	0.000	11100.000	9520.000	20620.000
¹⁴ C Used	46213.000	416.000	9520.000	56149.000
³ H Received	64750.000	0.000	0.000	64750.000
³ H Used	74796.610	0.000	177600.000	252396.610



Figure 3. Photograph showing a controlled area during clearing the air supply duct ports