

VII Environmental Preservation Performance Indicators

Atmospheric Indicators

Below is presented the data for atmospheric emission and wastewater quality of six Works that are notified as designated works, including NOx, SOx and dust for the former, and pH, COD (or BOD), SS and n-h (mineral oil) for the latter.

		Item	Facility	Legal control level	Self-imposed control level	Averaged level	Maximum level
Chiba Works	Both NOx and SOx are under control by immutable weight, but daily management is done on ppm basis	NOx (Nm ³ /h)	Boiler	0.45	82 (ppm)	44 (ppm)	49 (ppm)
			Melting furnace	1.77	63 (ppm)	21 (ppm)	23 (ppm)
		SOx (Nm ³ /h)	Boiler	0.502	58 (ppm)	44 (ppm)	49 (ppm)
			Melting furnace	0.39	0.065	0.019	0.024
Mie Works	NOx (ppm)	Boiler	180	140	54	54	
		Melting furnace	180	140	20	27	
		Heating furnace	180	140	12	18	
	SOx (Nm ³ /h)	Boiler	0.6	0.5	0	0	
		Melting furnace	41.6	33.3	0	0	
		Heating furnace	2.2	1.8	0	0	
Soot (g/Nm ³)	Boiler	0.3	0.24	0.005	0.005		
	Melting furnace	0.3	0.24	0.007	0.013		
	Heating furnace	0.2	0.16	0.005	0.005		
Nikko Works	Kiyotaki District	NOx (ppm)	Boiler	180	180	68	78
			Melting furnace	200	200	25	36
			Dryer furnace	300	250	21	21
		SOx (K value)	Boiler	17.5	17.5	0.51	0.62
			Melting furnace	17.5	17.5	0.58	0.86
			Dryer furnace	17.5	17.5	0.17	0.19
	Sheet Plant	NOx (ppm)	Boiler	230	230	51	52
			Melting furnace	180	150	66	117
			Heating furnace	200	160	21	29
		SOx (K value)	Boiler	17.5	14.5	0.03	0.03
			Melting furnace	17.5	14.5	0.27	0.55
			Heating furnace	17.5	14.5	0.07	0.07
Soot (g/Nm ³)	Boiler	0.25	0.25	0.01	0.01		
	Melting furnace	0.3	0.25	0.03	0.08		
	Heating furnace	0.25	0.25	0.02	0.06		
Osaka Works	NOx (ppm)	Boiler	150	120	6	7	
		Melting furnace	200	160	7	8	
		Heating furnace	170	144	6	7	
	SOx (K value)	Boiler	1.17	1.17	0	0	
		Melting furnace	1.17	1.17	0	0	
		Heating furnace	1.17	1.17	0	0	
Soot (g/Nm ³)	Boiler	0.1	0.08	0.002	0.002		
	Melting furnace	0.2	0.16	0.001	0.001		
	Heating furnace	0.25	0.2	0.001	0.001		
Fukui Works	NOx (ppm)	Boiler	120	110	83	94	
		Melting furnace	120	110	87	101	
		Heating furnace	120	110	49	63	
		Dryer furnace	110	100	19	34	
	SOx (ppm)	Boiler	380	50	5	5	
		Melting furnace	160	130	31	65	
	Soot (g/Nm ³)	Boiler	0.1	0.05	0.005	0.005	
		Melting furnace	0.2	0.16	0.019	0.051	
	Heating furnace	0.12	0.1	0.005	0.005		
	Dryer furnace	0.12	0.08	0.007	0.013		
Oyama Works	NOx (ppm)	Boiler	150	120	90	99	
		Melting furnace	180	180	93	138	
		Heating furnace	130	120	40	43	
	SOx (K value)	Boiler	7	1	0.03	0.03	
		Melting furnace	7	1	0.09	0.09	
		Heating furnace	7	1	0.07	0.07	
	Soot (g/Nm ³)	Boiler	0.3	0.1	0.005	0.006	
Melting furnace		0.2	0.1	0.008	0.017		
	Heating furnace	0.2	0.1	0.001	0.001		

Environmental Preservation Performance Indicators

Water Quality Indicators

		Item	Legal control level	Self-imposed control level	Averaged level	Maximum level
Chiba Works		pH	5.0 ~ 9.0	5.0 ~ 9.0	7.8	8.1
		COD(mg/l)	15	15	5.6	9.3
		SS(mg/l)	20	20	3.9	3.9
		n-h(mineral oil)(mg/l)	2	2	0.2	0.2
Mie Works		pH	5.8 ~ 8.6	6.5 ~ 8.5	7.5	8.2
		BOD(mg/l)	10	4	1.9	8
		SS(mg/l)	25	6	1.4	4.5
		n-h(mineral oil)(mg/l)	1	0.7	0.1	0.4
Nikko Works	Kiyotaki District	pH	5.8 ~ 8.6	6.0 ~ 8.5	7.6	7.7
		BOD(mg/l)	25	16	3.2	5.2
		SS(mg/l)	50	20	3.9	24
		n-h(mineral oil)(mg/l)	5	0.5	0.4	0.5
	Sheet Plant	pH	5.8 ~ 8.6	6.5 ~ 8.5	7.4	7.9
		BOD(mg/l)	25	10	1.3	2.3
		SS(mg/l)	50	25	0.3	2.5
		n-h(mineral oil)(mg/l)	5	2.5	< 1	< 1
Osaka Works		pH	5.7 ~ 8.7	5.7 ~ 8.7	7.5	8.1
		BOD(mg/l)	300	10	3.9	8.5
		SS(mg/l)	300	50	13	15
		n-h(mineral oil)(mg/l)	5	2	1.4	2
Fukui Works		pH	5.0 ~ 9.0	5.5 ~ 8.8	7.6	8.5
		COD(mg/l)	600	250	39	92
		SS(mg/l)	600	250	23	96
		n-h(mineral oil)(mg/l)	5	4.5	0.6	4.6
Oyama Works		pH	5.8 ~ 8.6	6.0 ~ 8.0	7.2	7.4
		BOD(mg/l)	25	20	3.1	4.9
		SS(mg/l)	50	30	14	30
		n-h(mineral oil)(mg/l)	5	2	0.5	0.6

VIII Progress in Pro-environmental Management; Editor's Note

1972	“Company-Wide Regulations for Environmental Pollution Prevention” formulated
1974	Environment Control Department established Energy-Conservation Team started
1989	Team for Use Reduction of Specified CFCs started
1992	Renamed “Team for Use Reduction of Specified CFCs” as “Team for Use Reduction of Ozone Layer Depletion Substances”
1993	“Basic Thinking on the Protection of the Global Environment” formulated (Furukawa Electric's voluntary plan for environment preservation)
1994	Committee for Company-Wide Promotion of Energy Conservation established
1996	Specified CFCs and trichloroethane completely eliminated from the company
1997	Promotion Team for the Reduction of Industrial Waste started
1998	“Furukawa Electric Basic Environmental Policy” formulated Central Committee for Environment Management established Committee for the Development of Environment-Friendly Products established Chiba Works acquired ISO14001 certification Mie Works acquired ISO14001 certification “Company-Wide Regulations for Environment Management” formulated revising “Company-Wide Regulations for Environmental Pollution Prevention”
1999	Safety, Environment and Health Promotion Department started incorporating Environment Control Department and Safety Control Sections
2000	Environment and Energy Laboratory established Liaison Meeting of Affiliated Companies established Environmental Report began to be issued Meeting of Environmental Personnel started Hiratsuka Works acquired ISO14001 certification Kambara Works acquired ISO14001 certification Osaka Works acquired ISO14001 certification
2001	Medium-Term Plan for Environment Preservation Activities 2002 formulated (for 2001~2002) Shinagawa Works acquired ISO14001 certification Environmental Accounting started to be disclosed
2002	Nikko Works (Kiyotaki District) acquired ISO14001 certification Fukui Works acquired ISO14001 certification Yokohama Laboratories acquired ISO14001 certification Oyama and Shiga Works acquired ISO14001 certification Green Procurement Preparation Committee started
2003	“Furukawa Electric Basic Environmental Policy” revised Medium-Term Plan for Environment Preservation Activities 2005 formulated (for 2003~2005) Green Procurement Executive Committee started All Works including Nikko (Sheet Plant) acquired ISO14001 certification

Editor's Note

In fiscal 2002, the last year of the Furukawa Electric Medium-Term Plan for Environment Preservation Activities 2002, all the Works acquired ISO14001 certification, which had been the greatest task for us.

In this fourth publication, we made efforts to enrich the Environmental Report 2003 by embracing new contents such as safety and health activities and the activities of affiliated companies. We would be most grateful if many readers could find this brochure reader-friendly.

We intend to expand the scope of this brochure, with the cooperation of many divisions involved, toward advanced information disclosure in consideration of corporate responsibility which is expected to be growingly required globally. Please do not hesitate to give your opinions and suggestions to us.