

V Environment-Oriented Communications

Occupational Safety and Health Activities

Organization for Safety and Health Activities

The occurrence of a grave accident in 1999 has led to form a new organization in which the responsibility lies, just like business responsibility, with the managers of business divisions, not with the managers of Works as was conventional. At the same time, the Safety, Environment and Health Promotion Department consisting of experts in safety, health and environment has been established to be under direct control of President. The Central Committee for Safety and Health has also been established, in which a Director in charge of safety and health takes office as the Chairman and managers of business divisions as the members, thereby company-wide policies and measures are discussed in order to promote safety activities in a definite and comprehensive manner. Moreover, experienced visiting lecturers are invited to all the Works to reform employees' environmental consciousness through such educational courses for safety and health and safety investigation of plants to improve, on-the-spot and on-the-object, facilities, work environment and work

Mental Health Care

To prevent employees' mental stress caused by rapidly changing business structure, we have set up a three-year program of mental health promotion as one of the Priority Safety and Health Measures. In fiscal 2002, the program started with a declaration of "introduction of mental health program" by a Director in charge. Mental health education has been conducted all the while to the managers, supervisors and general employees, and in fiscal 2003, the program is extended to all employees.

An outside institution for employee assistance program (EAP) contracted to provide consulting windows, supporting preemptive moves for maintaining mental health. Moreover, traveling service of medical specialists is under way.

Medical Check-Up

Since fiscal 2002, medical check-up was shifted to a company-wide common practice in

method. In fiscal 2002, the fourth year of the new regime, look-ahead safety measures are being pursued.

Priority Environmental Activities for Fiscal 2002

■ Training of In-House Safety and Health Instructor

Training of safety and health instructor was carried out six times aimed mainly at supervisors of workplace, and 166 in-house safety and health instructors were trained. These instructors are now educating individual employees.

■ Look-Ahead Safety Measures against Dangerous Work

Safety check of plant facilities and machines is being pursued thoroughly in their third-year plan aiming at possible improvements, together with safety check for dangerous or hazardous work.

Required and prohibited practices are defined against dangerous or hazardous work, and thorough "point and call" practice is pursued everyday on an actual-place and actual-material basis.

■ Rechecking and Maintenance of Standards

A-, B- and C-ranked specifications of facility safety design standards in conformity with ISO12100 were drawn up by the facility design department.

Safe work standards against residual risks that cannot be covered with facility improvements have been drawn up at the Oyama, Chiba and Osaka Works.

A-ranked specification: Fundamental safety matter

B-ranked specification: Common safety matter

C-ranked specification: Facility-specific safety matter



Mental health education by nursing staff



User card for outside EAP advice to be carried by employees

order to standardize the check-up work and to improve the daily life. This enables us to unify the management of health information and to compare the data from diversified viewpoints. Thus, health conditions ranging from a group to individuals can be grasped to be developed into guidelines for a better daily practice, thereby reforming the health consciousness of all employees.

Working Conditions Measurement

The results of measurements in fiscal 2002 indicate that 98 % of the special workplaces designated by the law (dealing with organic solvent, dust, specialized substance and lead) belong to the Class-1 Control Category. Workplace improvement initiatives are being implemented to improve the working conditions of workplaces corresponding to the Class-2 and Class-3 Control Categories.

Class-1 Control Category: Working condition which is assessed to be appropriate.

Class-2 Control Category: Working condition which is assessed to allow some scope for improvement.

Class-3 Control Category: Working condition which is assessed to be inappropriate.

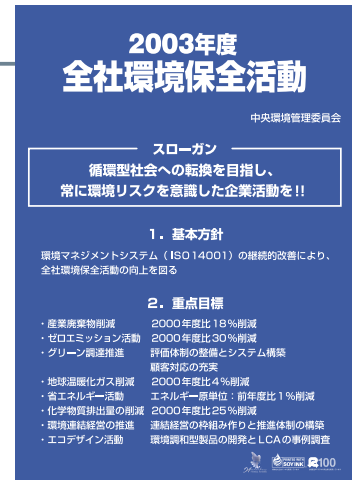
Enlightenment and Publicity Activities

Enlightenment Activities

To raise the environment consciousness of the employees, we have put up an environmental campaign poster at all the Works, Laboratories and Branch Offices in succession to the last year. The poster contains a slogan about environmental preservation activities, Basic Environmental Policy and major activity targets for fiscal 2003.

In June, which is designated as the month of environmental preservation, the chairman of the Central Committee for Environment Man-

agement delivered a message to all the Works about the significance of the month of environmental preservation, offering encouragement of energetic activity. Each Works, in response to this message, carried out diversified activities such as distribution of a leaflet informing the environmental preservation month, installation of notice boards, call for a catchphrase concerning the environment, implementation of the 5S activity in and around the Works' premises together with nighttime patrols.



Environmental campaign poster

Publicity Activities

We positively disclose the information on our environment-friendly products and environmental preservation activities through our website together with active participation in exhibitions and communal activities, thus making efforts to communicate with our customers and local communities.

■ Information Disclosure on Website

On our website, under the title of "Environmental Preservation Activities" we disclose how Furukawa Electric is promoting its environmental preservation initiatives, and present, since fiscal 2000, previously published environmental reports in PDF. The environmental report on the website is upgraded every year by December.



Furukawa Electric's website
<http://www.furukawa.co.jp/english/index.htm>

Environmental Preservation Activities
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■ Communal Activities

Since fiscal 2002, the Chiba Works actively participates in "Eco-Fair Ichihara" that is held in the Ichihara Citizen Hall.



Eco-Fair Ichihara
 Planter boxes made of recycled wooden drums are exhibited.



Eco-Fair Ichihara
 Organic fertilizer made from garbage from the company cafeteria is exhibited and delivered at no charge.



Eco-Fair Ichihara
 Disposition of PCB is exhibited and illustrated using a VTR.

Enlightenment and Publicity Activities

Exhibitions

Furukawa Electric's products and technological information including environment-friendly products are exhibited at major exhibitions around the country.



Electrical Construction Equipment and Material Fair 2002



Fiber Optics Expo 2003



Automotive Engineering Exposition 2002



Thermal Solution Technologies in Techno-Frontier Week 2002

Name of exhibition	Exhibited products
Electrical Construction Equipment and Material Fair 2002 (at INTEX OSAKA)	Compact optical fiber fusion splicer, Cable connecting materials including CellPack, Eco-Bus duct, Flexible conduit of plastics (ECO-PLAFLEKY), Underground cable duct made of cable waste (KOHTA KUN), Eco-cable (ECO-ACE), Terminating materials for high-voltage cable, Fire-preventive products (NIJIKAN Series), etc.
INTERNEPCON JAPAN (at Tokyo Big Sight)	Nitrogen-atmosphere reflow oven "SALAMANDER"
Fiber Optics Expo 2003 (at Tokyo Big Sight)	Network equipment, Compact optical fiber fusion splicer, OFS specialty fiber
IEEE/PES T&D 2002 Asia Pacific (at PACIFICO YOKOHAMA)	Eco-material wire and cable, Recyclable drum, Cable jointing material
Automotive Engineering Exposition 2002 (at PACIFICO YOKOHAMA)	36-V car battery, Wire harness for roof modules, PCB joint box, Flat speaker, EV connector, Optical fiber, Optical connector
Thermal Solution Technologies in Techno-Frontier Week 2002 (at Makuhari Messe)	Heat-dissipating cabinet, Heat exchanger, HeatPlaner, Heat sink, Micro heat pipe, TM sheet, HeatKicker, etc.

Environmental Initiatives of Business Bases

Chiba Works

Location: 6, Yawatakaigandori, Ichihara-shi, Chiba-ken
 Number of employees: 1,724
 Lot area: 737,605 m²

The Chiba Works was established in 1961 in the city of Ichihara, the hometown of “JEF UNITED ICHIHARA” which belongs to the J. League, and now develops and manufactures energy and information transmission media such as raw materials for electrical wire, power cables, communications cables, electrical wire for electronic equipment as well as large-capacity communications equipment. The Works acquired ISO14001 certification in June 1998 going ahead of the entire company. Striving to be an “environmentally advanced Works”, it always addresses many challenging tasks. Under the slogan of “Toward an environment-

friendly Works”, it consistently pursues three major themes of environmental preservation: zero-emission activity, law-abiding activity and communal activity.



Environmental area patrol



Explanation of environmental activities is given to the visitors

Zero-Emission Activities

Through complete separation of the waste generated in the Works, the volume of waste disposed of in landfills in fiscal 2002 significantly decreased by 62.5 % over fiscal 2000, and the total volume of waste by 51 %. Now the activity extends to daily-life features such that paper cups at vending machines are recycled and that garbage from the company cafeteria is being turned into compost.



Paper cup with environmental catchphrase

Law-Abiding Activity

In response to the fact that “Stop Idling” became compulsory by the Environmental Preservation Ordinance of Chiba Prefecture, members of the EMS Promotion Committee distributed leaflets on “Stop Idling”, positively pursuing enlightenment activities.



Members of EMS Promotion Committee distributing leaflets

Communal Activities

We actively participate in various communal activities, whereby, at the Yawata Coastal Area Fair and the Eco-Fair Ichihara held every year in May and June, we present environmental preservation activities of the Chiba Works, sell wood planters brought about by recycling promotion activities, and deliver at no charge organic fertilizer made from raw garbage from the company cafeteria, thus acquiring a favorable reputation.



Eco-Fair Ichihara



Yawata Coastal Area Fair

Environmental Initiatives of Business Bases

Mie Works

Location: 20-16, Nobono-cho, Kameyama-shi, Mie-ken
 Number of employees: 959
 Lot area: 540,216 m²

The Mie Works was established in 1971 in the superb natural surroundings at the foot of the Suzuka mountain range as a business base of Furukawa Electric in the Chukyo and Kansai areas. The Works manufacture not only nonferrous materials such as copper products, copper wire and magnet wire, but also optical fiber cable, automotive products and plastic products, thus consolidating its position as a backbone business base both in name and reality. The Works is actively communicating with the local communities through such activities as summer evening festivals and factory tours inviting near neighbors.



Aerial photograph of Mie Works



A scene of summer evening festival



Presentation of a booth at the environmental fair sponsored by Mie Prefecture

Environmental Preservation Activities

After it acquired ISO14001 certification in November 1998, the Mie Works is pursuing reduction activities of environmental impact on a Works-wide basis such as

- 1) Reduction of PRTR-targeted chemical substances
- 2) Promotion of energy conservation and reduction of greenhouse gas
- 3) Reduction of waste (Promotion of zero-emission)
- 4) Purification of wastewater and flue gas

Automatic monitoring equipment for wastewater



Analysis room for wastewater

Because it is located in an inland area, the Mie Works is carrying out environmental preservation activities placing special emphasis on wastewater quality control, whereby stringent voluntary levels are set up and an automatic supervisory and alarming system for control items is installed to quickly detect any abnormalities in wastewater quality. Moreover, in view of the Fifth Immutable Weight Control against Wastewater Quality to be applied in April 2004, an automatic analyzer for total phosphorous and total nitrogen in wastewater has been installed to enable full-time monitoring using the automatic supervisory and alarming system. In addition, an empty reservoir for emergency use is provided in case of water quality eventualities.

In terms of purification of atmospheric emission, a dust collector has been installed for a copper melting furnace that is designated as a specific facility in the Air Pollution Control Law. The installation has reduced the dust concentration down to less than one tenth the level before the installation. Thus at the end of fiscal 2002, the emission volume of dust of the entire Mie Works was reduced by 90 % over fiscal 1997, contributing a great deal to pollution reduction in the Works as well as in the neighboring areas.

In future, we intend to continue conventional activities including wastewater- and atmospheric emission-countermeasures, simultaneously placing emphasis on global warming prevention including energy conservation as well as waste reduction, which constitute important policy of Mie Prefecture.