

Environmental Management System

Present State of ISO14001 Certifications

In 1999, NTN acquired multi-site ISO14001 certification for 11 domestic operating sites (headquarters, 5 plants and 5 affiliates) and we are working to expand this circle.

In 2004, NTN Omaezaki Works (domestic), NTN-NIDEC (ZHEJIANG) CORP (China), and GUANGZHOU NTN-YULON DRIVETRAIN CO., LTD. (China) acquired certification.

For details on the location and

certification of our domestic and overseas operating sites, please refer to pages 22 to 36.



NTN-NIDEC (ZHEJIANG) CORP
ISO14001 Certificate



GUANGZHOU NTN-YULON
DRIVETRAIN CO., LTD.
ISO14001 Certificate

Comprehensive Auditing System

At NTN Group, we have an environmental audit system so that our environmental management structure functions properly. We conduct both "reviews by external organizations" and "internal audits at operation sites" and starting from fiscal 2004 we have "cross auditing" in which operating sites audit each other.

● ISO14001 Periodic Maintenance Evaluation

The domestic NTN Group operating sites have completed the acquisition of multi-site ISO14001 certification.

At the maintenance evaluation conducted last November, NTN Omaezaki Works received its certification and was incorporated into the NTN Group multi-site certification.



Receiving ISO14001 Periodic Maintenance Evaluation

● Customers' Environmental Auditing

We underwent environmental audits by two of our customers in fiscal 2004. NTN's environmental management structure received high ratings and we received accreditation as a supplier.



Customer's certificates

Compliance with Legal Requirements

● Compliance with Regulations and Voluntary Measures

For the "ELV directive,"*1) which targets automobiles, and the "RoHS directive,"*2) which targets electric and electronic devices, we have switched all bearing parts to those that do not contain toxic substances (starting in October 2003). For automobile CVJs, we have proposed replacement materials (lead-free grease) to our users from March 2003 and realized complete phase out of toxic substances.

At present, we are promoting the complete phase out of phthalate

ester*3), which was newly added to CMR substances*4) targeted by EU restrictions. This is a chemical substance that is used as an additive in rubber seals and boots for CVJs and we are promoting a switch to replacement materials in preparation for complete phase out by the end of 2007 (NTN voluntary target).

At NTN, we not only comply with legal requirements but also actively set voluntary targets and phase-outs ahead of other companies for any substance with a heavy environmental hazard or that are suspected of being toxic.

*1) targets of the ELV directive (End of Life Vehicles): lead, mercury, cadmium, and hexavalent chromium.

*2) targets of the RoHS directive (Restriction of the use of certain Hazardous Substance in electrical and electronic equipment): the substances above + brominated flame retardants

*3) Phthalate esters: a type of organic chemical that is partially restricted by the EU directive (2003/36/EC) for suspicions raised about human toxicity.

*4) CMR substances: substances that are considered to be C (carcinogenic), M (mutagenic) or R (Toxic to Reproduction).



Lead-free grease for CVJ



Rubber seals and boots for CVJ that are phthalate ester switchover targets

● NTN employees with qualifications

At NTN, in order to deal with the legal requirements, we are promoting the acquisition of various qualifications.

(As of March 31, 2005)

Major Qualifications		Number of Employees with Qualification
Energy Management Qualifications	Qualified electrical energy manager	17
	Qualified thermal energy manager	19
Pollution Prevention Manager	Air (categories 1-4)	28
	Water (categories 1-4)	47
	Noise	22
	Vibration	17
High-pressure Gas Manufacturing and Security Manager	Refrigerating equipment categories 2, 3	11
	Categories A and B Chemical	12
	Category C Chemical/liquefied petroleum gas	76
	Category C Chemical/special test items	47
	Category B Machinery	2
Chief Electrical Engineer	Categories 1, 2	6
	Category 3	44
Environmental Measurement Analyzer		5
Working Environment Measurement Expert (Type 1, Type 2)		2
Manager of Specially Controlled Industrial Waste		23
Manager of intermediate treatment facility for industrial waste		5
Manager of poisonous and harmful substances		15
Assistant Auditor for ISO14001 Specification		3
Total		401

2005年(平成17年)3月3日(木曜日)

NTN

2007年までに自主全廃

CMR物質 代替品を耐用試験

NTNは欧州連合(EU)の有害物質規制の対象品として、自動車用CVJ部品に使用されているCMR物質(フタル酸エステル)の自主全廃を推進しています。この物質は環境汚染や白濁の原因となることが知られており、人体への健康被害も懸念されています。NTNは、この物質の代替品を開発し、耐用試験を実施し、2007年までに自主全廃することを目標としています。

CVJやベアリングのゴム部品でCMR物質の使用を廃止する

環境・社会にやさしい製品を開発し、お客様の安全と健康を守る。NTNの使命です。CMR物質の自主全廃は、この使命を達成するための重要な取り組みです。NTNは、この取り組みを通じて、社会に貢献し、持続可能な社会の実現を目指しています。

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Newspaper article on the elimination of phthalate ester (March 3, 2005 Nikkei Sangyo Shinbun)