NISSEI GROUP GREEN PROCUREMENT STANDARD Ver.28

NISSEI ELECTRIC CO., LTD
Quality Control Dept.
Quality & Environmental System Sec.

1. Purpose

This standard was established to promote green procurement by delivering environmentally friendly products to our customers and aim to contribute to the preservation of the global environment.

To achieve this purpose, regarding environmental management substances in the materials that make up NISSEI products or materials used in the manufacturing are clarified prohibited substances and controlled substances, established management method for materials, parts, products, and services.

We communicate thoroughly with suppliers and defined procedures to manage prohibited substances will not be mixed when purchased materials.

2. Application scope

2.1. Applied sites

This standard is applied to the whole collective NISSEI Group, including:

NISSEI ELECTRIC CO., LTD. (NEJ)
NISSEI ELECTRIC VIETNAM CO., LTD. (NEV)
NISSEI ELECTRIC MY THO CO., LTD. (NEM)
NISSEI ELECTRIC HANOI CO., LTD. (NEH)
NISSEI ELECTRIC (THAILAND) CO., LTD. (NET)
NISSEI ELECTRIC (H.K.) CO., LTD. (NEHK)
NISSEI ELECTRIC INDIA PRIVATE LIMITED (NEI)
NISSEI ELECTRIC (SINGAPORE) PTE. LTD.（NESG）

2.2. Application scope of materials/parts/products

	Application scope of materials/parts/products.
①	Semi-finished products: Such as assembly parts such as functional units, modules, assembly board
②	Parts: Electrical parts, mechanical parts, semiconductor devices, printed-wiring boards, Packaging materials used by customers at their shipment: Such as individual boxes, packing boxes, labels, printing ink･paints, wooden frames, trays, plastic bags, cushioning materials, sheets, wraps, cardboard, tapes, cable ties.
③	Materials: Such as rubber compounds, pigments, resins, inks, wires, and metal cores.
④	Products: Designed and manufactured by NISSEI Group
⑤	Instruction Manual
⑥	Packaging materials used to protect and deliver NISSEI Group’s products but not used by customers for shipment: Such as individual boxes, packing boxes, labels, printing ink･paints, wooden frames, trays, plastic bags, cushioning materials, sheets, wraps, cardboards, tapes, cable ties.
⑦	⑦ is applied for RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863. Packaging materials used to deliver and protect products procured by NISSEI Group, and being discarded at NISSEI Group. Within "Sub-material & consumable", "Equipment" and "Manufacturing equipment and jig" used in the production process excluding the above ⑥, something that touch products. "Sub-materials & consumables" means material that are used in production process but are not used

	in the product, and one-time use or the amount decreases per use： Such as abrasive papers, abrasives, cleaning agents, treatment agents, tapes, rubber gloves, finger sacks, non-woven fabrics, brushes. "Equipment" means something that can be used repeatedly for a long time without changing its shape, and that has a service life for one year or more. Such as shelves, work desks, trays, containers, solvent containers.

2.3. Exemption

It is excluded for the articles which are sale outside such as office equipment, building materials.

3. Definition of terms

Table 3-1 Terms

	Term	Definition
①	Environmental management substances	Substances contained in parts and devices, which are determined by significant environmental impact on both humans and the global environment, notified to suppliers by **NISSEI Group**.
		Prohibited substances: Substances that are prohibited from use by current laws or customer requirements. refer Table 4-1-1①②④
		Controlled substances: chemSHERPA controlled substances other than the above prohibited substances. Substances that are not prohibited, but their content amount needs to be grasped. Substances for which management is being strengthened in response to customer demands and regulatory trends.
②	Contain	Mean that substances are added to, filled in, mixed in or adhered to parts or homogeneous materials constituting products regardless of whether intentional. (Including cases of unintentionally mixed or attached to product in the process) In cases of multiple purchases, regarding the maximum quantity of what contained are reported.
③	Impurities	Substances that are contained in natural material and cannot be removed by the current industrial technologies in the production process or substances that are cannot be removed by the current industrial technologies in the process of synthesis.
④	Quarantine operation	Mean that based on the performance or customer requirement, if the materials containing environmental management substances (prohibited substances) must be used, they should be ensured that they will not be mixed with other materials or products from receiving to shipping process.
⑤	MSDS	Products containing Class I and II Designed Chemical Substances more than 1% by weight (or Specified Class I Designed Chemical Substances more than 0.1% by weight) of Japan PRTR Law must submit an MSDS. In addition, chemicals, dyes, paints, solvents…also required to submit.
⑥	High precision analysis data	For high precision analysis data, refer item 4.2. Analysis method.
⑦	Controlled value	A standard value which determines the notification to suppliers for correction, if it has been exceeded during incoming inspection or periodic inspection process.

4. Environmental management substances

4.1. Environmental management substances

4.1.1. Prohibited substances

Stipulate in Table 4-1-1① based on domestic and foreign laws or customer requirements.

Regarding PVC, the purchased materials specified by NISSEI group are excluded from the prohibited substances. In case of excluding, document notification is mandatory, and it will be specified in the purchase specification exchanged with supplier. Even unintentionally, content must not exceed the values in the Table4-1-1①. About analysis methods for RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863, please refer to section 4.2.

Table 4-1-1①Environmental management substances – List of prohibited substances

Major classification	Prohibited substances (substances that are prohibited from intentional use)	Allowable concentration (Less than ppm)	Controlled value (Less than ppm)	Laws and regulations
Metals and metal compounds	1 Cadmium and its compounds (Packaging materials: refer to table 4-1-3)	5 (*1)	5 (*2)	RoHS Directive
	2 Hexavalent chromium compounds (Packaging materials: refer to table 4-1-3)	1000	800	RoHS Directive
	3 Lead and its compounds (Packaging materials: refer to table 4-1-3)	Table 4-1-1②		RoHS Directive
	4 Mercury and its compounds (Packaging materials: refer to table 4-1-3)	1000	800	RoHS Directive
	5 Beryllium oxide CAS No. 1304-56-9	intentional use prohibited		Customer demand
	6 Cobalt dichloride *9 CAS No. 7646-79-9	intentional use prohibited		REACH Restricted substances
	7 Trisubstituted organotin compounds (more than 0.1wt% of tin conversion)	intentional use prohibited 1000		REACH Restricted substances
	Bis(tributyltin) oxide (TBTO)	Prohibited contain		Chemical substances control law
	8 Dibutyltin compounds, Dioctyltin compounds *3 (More than 0.1wt% of tin conversion)	1000		REACH Restricted substances
	9 Nickel and its compounds *3	0.5μg/cm^2/week		REACH Restricted substances
Chlorine・Bromine Organic Compounds	10 Polybrominated biphenyls (PBBs)	1000	800	RoHS Directive
	11 Polybrominated diphenyl ethers (PBDEs)	350	280	RoHS Directive EU POPs Regulation TSCA
	12 Polychlorinated biphenyls (PCBs)	Prohibited contain		Class 1 Chemical substances control law
	13 Polychlorinated naphthalenes (PCN) (more than 1 chlorine atoms)	Prohibited contain		POPs Regulation Class 1 Chemical substances control law
	14 Pentachlorophenol (PCP) and its salts and esters	Prohibited contain		Class 1 Chemical substances control law
	15 Polychlorinated terphenyl (PCT)	50		REACH Restricted substances
	16 Short-chain chlorinated paraffins (SCCP) (C10-C13)	intentional use prohibited 1000		EU POPS Regulation Class 1 Chemical substances control law
	17 Medium-chain chlorinated paraffins (MCCP) (C14-C17)	1000		POPs Convention
	18 Hexabromocyclododecane	intentional use prohibited 100		Class 1 Chemical substances control law POPs Regulation

	19 Pentachlorobenzene	Intentional use prohibited	Class 1 Chemical substances control law
	20 Hexachlorobenzene	intentional use prohibited	Class 1 Chemical substances control law
	21 Polyvinyl Chloride (PVC)	intentional use prohibited	Customer demand
	22 Chlorinated organic solvent	intentional use prohibited	Customer demand
	23 Tris (2-chloroethyl) phosphate (TCEP) Tris (1-methyl-2- chloroethyl) phosphate (TCPP) Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)	1000	US domestic law
	24 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus" ™)	Prohibited contain	POPs Regulation Class 1 Chemical substances control law
Others	25 Perfluorooctane sulfonate (PFOS) and its salts	intentional use prohibited 1000	Class 1 Chemical substances control law POPs Regulation
	26 Perfluoro-1-octanesulfonyl fluoride (PFOSF)	Intentional use prohibited	POPs Convention
	27 Perfluorooctanoic acid (PFOA), its salts Perfluorooctanoic acid (PFOA) related substances*6	Intentional use prohibited and total 25ppb total 1000ppb	Class 1 Chemical substances control law POPs Regulation *6
	28 PFHxS, its salts PFHxS related substances *6	Intentional use prohibited and total 25ppb total 1000ppb	Class 1 Chemical substances control law REACH Regulation
	29 PFHxA, its salts PFHxA related substances *6 *12	total 25ppb total 1000ppb	REACH Restricted Substances
	30 PFCAs(C9-C14), its salts PFCAs(C9-C14) related substances *6	total 25ppb total 260ppb	REACH Restricted Substances
	31 PFCAs(C9-C21), its salts PFCAs(C9-C21) related substances *6	intentional use prohibited	POPs Convention
	32 Long-Chain Perfluoroalkyl carboxylate (LCPFAC)	intentional use prohibited	TSCA SNUR
	33 Asbestos	intentional use prohibited 1000	REACH Restricted Substances Safety & Hygiene Law
	34 Azo colorants and azo dyes which generate certain aromatic amines *3 (refer to table 4-1-1④)	30	REACH Restricted Substances
	35 2-(2H-1,2,3-benzotriazol-2-yl)-4,6-di-tert-butylphenol (UV-320) CAS No.3846-71-7	Prohibited contain	Class 1 Chemical substances control law
	36 Formaldehyde *4	Less than 0.1 in aerial density	REACH Restricted substances
	37 Dimethyl fumarate	0.1	REACH Restricted Substances
	38 Radioactive substances	intentional use prohibited	Reactor Regulation Law
	39 Fluorinated greenhouse gases PFC, SF6, HFC (Kyoto Protocol)	intentional use prohibited	Kyoto Protocol
	40 Ozone-depleting substances (All substances described in Montreal Protocol as CFC substances, 1,1,1-Trichloroethane, Carbon tetrachloride substances, Halon, HBFC substances, Methyl bromide, Bromochloromethane, HCFC substances, Alternative fluorocarbons HFC)	intentional use prohibited	Montreal Protocol
	41 Benzene amine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST) *5	intentional use prohibited	Customer demand
	42 Yellow phosphorous	intentional use prohibited	Industrial Safety and

			Health Law
43 Polycyclic aromatic hydrocarbons (PAHs) *3	0.5		REACH Restricted Substances
44 Phthalate ester (DINP, DIDP, DNOP) *3 *7	1000		REACH Restricted Substances
45 butyl phthalate (DBP), Di(2-ethylhexyl)phthalate (DEHP), Benzyl butyl phthalate (BBP), Diisobutyl phthalate (DIBP)	Four substances total 1000	300 *7	REACH Restricted Substances (RoHS Directive)
	Four substances total 100 *11		USA Model Toxics in Packaging Legislation
46 Octamethyl cyclotetrasiloxane (D4) *3 Decamethyl cyclopentasiloxane (D5) *3 Dodecamethyl cyclohexasiloxane(D6) *3	1000		REACH Restricted Substances
47 Red Phosphorus	intentional use prohibited		Customer demand
48 Isopropylphenyl phosphate (PIP(3:1))	intentional use prohibited		TSCA PBT
49 Pentachlorothiophenol (PCTP)	10000		TSCA PBT
50 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Prohibited content		POPs Regulation Class 1 Chemical substances control law
51 Pigment Violet-29	intentional use prohibited		TSCA First 10 Chemical Substances Customer demand
52 Mineral oil aromatic hydrocarbons (MOAH) *10 Mineral oil saturated hydrocarbons (MOSH) *10	*10		France circular economy law
53 Bisphenol A (BPA) *13	200		REACH Restricted Substances
54 REACH Authorization Substances ANNEX XIV	1000		REACH Authorization Substances
55 Substances Classified “P” and “D/P” in GADSL, that falls under prohibited use/destinations.	Refer to GADSL *8		GADSL

*1 shows the threshold of plastics, gums, paints/inks, glass:
Solders are 20ppm, other materials are 75ppm.
*2 shows the threshold of plastics, gums, paints/inks, glass:
Solders are 20ppm, other materials are 60ppm.
*3 In Annex XVII of REACH Restricted Substances, the following substances are prohibited to use.
Dioctyl compounds:
①Textile articles, gloves, footwear intended to touch with the skin
②Wall papers, floor materials
③Children’s products and diapers
④Two-component room temperature vulcanization molding kits

Nickel and its compounds:
Products intended to be in direct contact with the skin for a long period of time.

PAHs:
Rubber or plastic parts in components that come into direct contact with the skin or oral cavity for long periods or repeatedly.

Phthalate ester (DINP, DIDP, DNOP):
Toys and childcare articles that may direct contact with children’s oral cavities.

Azo dyes and pigments:
Textile, leather goods which may touch with skin and oral cavity for a long period.

D4, D5, D6:
Wash-off cosmetics.

Substances and mixtures containing 0.1wt.% or more. (However, this does not apply to the constituents of the silicone polymer itself)

*4 It is restricted to wood and textile products

*5 Rubber excluding tires is out of scope

*6 For fluorine group materials, confirm with the manufacturer that there is no concern for contamination via the manufacturing process and raw materials.

*7 For Phthalate ester, consider the contamination risk caused by touch transferal and mixture of impurities during processes such as stock, packing, transport, and parallel production.
We may inquire about the management status of contamination.

*8 https://www.gadsl.org/

*9 Limited to desiccant indicators.

*10 Limited to ② ⑥ packaging materials and ⑤ printed matter in 2-2.Scope applicable to materials/parts/products.
Aromatic ring 1-7 mineral oil aromatic hydrocarbons (MOAH) as concentration in ink :1000ppm
Aromatic ring 3-7 mineral oil aromatic hydrocarbons (MOAH) as concentration in ink :1ppm
Carbon 16-35 mineral oil saturated hydrocarbons (MOSH) as concentration in ink :1000ppm

*11 Limited to ②⑥ packaging materials.

*12 Limited to footwear and textiles, leather and furs used in clothing and its related accessories.

*13 Limited to thermal paper and packaging materials.

Table 4-1-1② Allowable concentration and judgment standard

Substances name	Allowable concentration and judgment standard. Value under the below standard	Controlled value Value under the below standard
Lead and its compounds	Battery 40 ppm Plastic・Gum 100 ppm Lead-free solder, electroplating and material 500 ppm Other metals 1000 ppm (Exemption) Steel 0.35 wt.% Aluminum alloy 0.4 wt.% ※1 Copper alloy 4.0 wt.% Exempted application for lead in high melting temperature type solder (alloys containing 85% by weight or more), or lead in white glasses used for optic, or electrical and electronic components containing lead	Plastic. Gum 80 ppm Lead-free solder, electroplating and material 450 ppm Other metals 750 ppm

※1 Regarding RoHS2 exemption 6(b)-I and 6(b)-II, shall apply only to the category Table 4-1-1③

Table 4-1-1③ Exemption categories and validity date for 6(b)-I and 6(b)-II

No.	Exemptions	Validity date
6(b)-I	Lead as an alloying element in aluminum containing up to 0.4 % lead by weight, provided it stems from lead-bearing aluminum scrap recycling.	Applied to categories 9 (industrial monitoring and control instruments (IMCI)), and categories 11 31 Dec 2026
6(b)-II	Lead as an alloying element in aluminum for machining purposes with a lead content up to 0.4 % by weight.	Applied to categories 9 (industrial monitoring and control instruments (IMCI)), and categories 11 31 Dec 2026

Table 4-1-1④ Azo dyes that form any of the amine compounds listed

CAS No	Amin
60-09-3	4-Aminoazobenzene
90-04-0	o-Anisidine
91-59-8	2-Naphthylamine
91-94-1	3,3'-Dichlorobenzidine
92-67-1	4-Aminodiphenyl
92-87-5	Benzidine
95-53-4	o-Toluidine
95-69-2	4-Chloro-2-Methylaniline
95-80-7	2,4-Toluylenediamine
97-56-3	o-Aminoazotoluene
99-55-8	5-Nitro-o-Toluidine
101-14-4	3,3'-Dichloro-4,4'-Diamino Diphenyl Methane
101-77-9	4,4'-Methylenedianiline
101-80-4	4,4'-Diamino diphenyl ether
106-47-8	p-Chlorinelike
119-90-4	3,3'-Dimethoxybenzidine
119-93-7	3,3'-Dimethylbenzidine
120-71-8	2-methoxy-5-methylaniline
137-17-7	2,4,5-Trimethylaniline
139-65-1	4,4'-Diaminodiphenylsulfide
615-05-4	2,4-Diaminoanisole
838-88-0	4,4'-Diamino-3,3'-Diphenylmethane

4.1.2. Controlled substances

Controlled substances are “chemSHERPA controlled substances” excluding 4.1.1 Prohibited substances and that need to be grasped. PVC and Red Phosphorus specified by NISSEI group are to be controlled substances, please report them in chemSHERPA.

Especially for substances in Table 4-1-2, which must be reported regardless of their content rate.

Table 4-1-2 Especially controlled substances requiring reporting

No.	Substances / Substance group name	CAS No.	Lows and Regulation
1	Decabromodiphenyl Ethane	84852-53-9	Canadian Environmental Protection Act (CEPA)

4.1.3. Packaging materials

Regarding packaging materials ②⑥ in 2-2.Scope applicable to materials/parts/products, in addition to Table4-1-1①, Table4-1-3 shall also be applicable.

Among the packaging materials shown Table 4-1-3, it excludes packaging materials discarded at NISSEI group.

Packaging materials in the table is not exhaustive. We may request a separate survey if necessary.

Table 4-1-3 **Packaging materials (**Handles, plastic bags, cushions, wraps, foils, trays, reels, ties…)

Substances: Heavy metals (Mercury, Cadmium, Hexavalent chromium, and lead)	
Target	Effective date of the ban on the delivery
Allowable concentration: "Less than 100 ppm" is determined as the allowable total-concentration of four heavy metals (cadmium, lead, mercury, and hexavalent chromium) contained in homogeneous materials of each part, ink, or paint that constitutes a package. However, allowable concentration of lead, cadmium in plastics (including rubber), paint, ink part must also satisfy Regulations for "Cadmium and cadmium compounds" and "Lead and lead compounds" (Typical plastic parts: handles, plastic bags, cushions, wraps, foils, trays, reels, tape, magazine sticks (including stoppers), …	
(1) For hexavalent chromium, first analyze total chromium content and verify that the total concentration of cadmium, lead, mercury, and total chromium is less than 100 ppm. When analyzing, the same sample preparation methods as those used for cadmium and lead are applicable. (2) In case of total concentration of 4 elements is more than 100 ppm, verify that total concentration of cadmium, lead, and mercury (less than 3 elements) is less than 100 ppm. It will be irrelevant if the total concentration of 3 elements is more than 100 ppm. (3) In case of total concentration of 3 elements is less than 100ppm, analyze and confirm the present of hexavalent chromium in chromium, it is compatible if no detected hexavalent chromium. Measurement Standard: method of analysis follow the methods specified in item 4.2	

4.2 Analysis method of RoHS Directive 2011/65/EU Annex II amended by Directive (EU) 2015/863

Regarding analysis standards, it must conform to IEC 62321.

Also, the analytical institution shall be an accredited laboratory responding to the IEC 17025.

5. Survey of chemical substances for purchased materials

5.1. Survey target substances

Survey target substances are prohibited, controlled substance and packaging materials that are determined by NISSEI Group.

4-1-1 Prohibited substances

4-1-2 Controlled substances

4-1-3 Packaging materials

To meet our customer’s requirements, we may request additional survey other than the above.

5.2. Survey target product name

The product name when investigating will be specified as the names currently officially agreed upon between the two parties.

In case of changing product name or discontinuing, please change the product name that is delivered to NISSEI Group.

5.3. Survey forms

5.3.1. General purpose

Our standard survey is chemSHERPA (chemSHERPA AI or chemSHERPA CI) and Non-use warranty.

In case that cannot respond to chemSHERPA, please contact us.

For more information on chemSHERPA, please confirm to the website.

【chemSHERPA】https://chemsherpa.net/chemSHERPA/tool/

5.3.2. Relating to automobiles (when we designate)

Regarding surveys for automobiles, IMDS and Non-use warranty are standard.

For more information on IMDS, please confirm to the website.

【IMDS】https://www.mdsystem.com/imdsnt/startpage/index.jsp

5.4. The cases of containing prohibited substances

For non-guaranteed part of Non-use warranty, it is possible to delete line, modify・add optionally wording. However, when adding or modifying, please clarify the changes.

Please fill in「**Adjusting at engineering dpt.**」for products that are adjusting with Engineering Department of NISSEI Group.

For substances that are essential for manufacturing the product and impossible to eliminate, please fill in「**No plan**」and indicate the reason.

5.5. Type of chemical substances survey

5.5.1. Chemicals investigation for new purchased materials

【Necessary document】

① According to section 5.3.
② High precision analysis data (Necessary only for our specified materials)
③ SDS (Necessary for corresponding materials)

5.5.2. Routine chemical substances investigation (once a year)

【Necessary document】①Assignment form when having request such as Request for periodical environmental investigation etc.

5.5.3. Irregular chemical substances investigation

【Necessary document】・If 4M change that affect the chemical substances, below documents are necessary:

① According to section 5.3.
② High precision analysis data (Necessary only for our specified materials)
③ SDS (Necessary for corresponding materials)

5.6. Department in charge of environmental investigation

The Procurement Department is responsible for conventional materials.

The Procurement Department or the Technology Department is responsible for new materials.

5.7. Practical use of survey results

Various survey documents obtained from suppliers will be used as objective evidence for our chemical substances management.

Also, the information provided is used to correspond to chemical substances surveys requested from customers.

6. Requests for management of chemical substances contained in products of suppliers

6.1 Building construction of management system for chemical substances contained in products.

To accept products that comply with NISSEI ELECTRIC Green Procurement Standards, we ask suppliers to build, maintain and improve the Chemical Substance Management System (CMS) which helps to understand, manage and use chemical substances contained in products.

Please refer to "Guidelines for the Management of Chemical Substances in Products (4th Edition)" on http://www.jamp-info.com/dl published by Joint Article Management Promotion Council (JAMP) for implementation item of managing chemical substances contained in products.

6.2. In case that supplier is a trading company

Please inform NISSEI Group Green Procurement Standard to the manufacturers of the items you handle and comply with them on their own responsibility.

7. Contact information

Please contact the person in charge of each site as below:

Site	Contact information
NISSEI ELECTRIC CO., LTD. (NEJ)	Tel：0538-66-5161
NISSEI ELECTRIC VIETNAM CO., LTD. (NEV)	Tel：84-28-3896-0239
NISSEI ELECTRIC MY THO CO., LTD. (NEM)	Tel：84-273-364-2451
NISSEI ELECTRIC (THAILAND) CO., LTD. (NET)	Tel：66-44-335-530
NISSEI ELECTRIC HANOI CO., LTD. (NEH)	Tel: 84-24-3955-0045
NISSEI ELECTRIC (H.K.) CO., LTD. (NEHK)	Tel: 852-2317-0283
NISSEI ELECTRIC (SINGAPORE) PTE. LTD. (NESG)	Tel: 65-6231-2680
NISSEI ELECTRIC INDIA PRIVATE LIMITED (NEI)	Tel: 91-96006-57601

Revision history

Version	Revision content summary	Issued date	Issue	Approval
0	New regulation	2006/6/29	Oda	Ito
1	Change according to revision of environmental impact substances control regulation and environmental impact substances instruction	2006/6/29	Oda	Ito
2	Change according to revision of environmental impact substances control regulation and environmental impact substances instruction Revision parts are marked with red or blue	2007/5/10	Oda	Ito
3	In case of no changing of component sheet (MSDS) and ICP data, required evidence documentation submission will receive extension of 1- year validity period.	2007/11/23	Oda	Ito
4	3. Clarification of no permission for intentional contain of substances marked with ○ when explaining about use-prohibited list ③ of item 3. Definition of terms. Changing one part of environmental impact non-use certificate.	2007/12/04	Oda	Ito
5	Changing definition of prohibited substances in item of 3. Term definition Initially adding and integrity of item 4.1 Use-prohibited substances Changing to match with changing of item of 4.1 and 4.2	2008/01/21	Oda	Ito
6	Changing definition of prohibited substances in item of 3. Term definition Initially adding and integrity of item 4.1 Use-prohibited substances Changing to match with changing of items of 4.1 and 4.2 Other: Correction of literal (6.1) Changing level based on purchasing prohibition period	2008/3/03	Oda	Ito
7	Changing definition of prohibited substances in item of 3. Term definition Changing investigation substances and submission documentation. Changing required analysis data and responsible person	2009/03/18	Akai	Suzuki
8	Changing investigation substances	2009/11/24	Akai	Suzuki
9	Changing NISSEI Group's prohibited substances. Changing investigation substances according to the second announcement on SVHC substances of REACH regulation.	2010/04/13	Akai	Suzuki
10	Changing NISSEI Group's prohibited substances. Changing investigation substances according to the fourth announcement on SVHC substances of REACH regulation.	2011/04/06	Akai	Suzuki
11	Adding NISSEI Group's prohibited substances. Changing investigation substances according to the 6th announcement on SVHC substances of REACH regulation.	2012/01/19	Akai	Suzuki
12	Adding investigation substances according to the 7th announcement on SVHC substances of REACH regulation.	2012/06/22	Akai	Suzuki

13	Adding item 4 - Analysis method of RoHS Directive substance, delated banned period of delivery and main substances to be displayed on item 7- Environmental impact substances of ver. 12 to prohibited substance table-only analysis method. Adding investigation substances according to the 8th announcement on SVHC substances of REACH regulation	2012/12/21	Akai	Suzuki
14	Adding phthalate ester, yellow phosphorous, red phosphorous of allowed target substances REACH into use-prohibited substances, sorting and revising investigation target substances Adding 144 SVHC substances of REACH regulation into investigation object	2013/08/05	Akai	Suzuki
15	Moving red phosphorus from use-prohibited substances to investigation target substances Adding 3 substances of Tris phosphate to use-prohibited substances Adding up to 151 substances to SVHC of REACH regulation in investigation target substances	2013/12/18	Akai	Suzuki
16	To review threshold of 6 substances of RoHS	2014/09/04	Akai	Suzuki
17	To added prohibited substances and surveyed substances To added up to 161 substances SVHC of REACH regulation in Surveyed substances	2014/12/25	Akai	Suzuki
18	Table 2.2 To added scope applicable to materials/parts/ products. Added content to item 4. Environmental management substances, reviewed threshold of prohibited substances, added laws and regulations, to reviewed controlled substances.	2015/09/29	Akai	Suzuki
19	Added limited use of prohibited substances and controlled substances Added controlled substances because of changes of laws and regulations	2016/02/20	Otani	Suzuki
20	Review threshold of prohibited substances and add GADSL to the controlled substances of the exemptions added Regarding RoHS analysis, added CMS request to change applicable standard notation in the 6. Term	2017/03/07	Otani	Narihara
21	Review the allowable content of Cadmium (Cd) in the solders. Others.	2018/02/28	Otani	Narihara
22	Add restricted object scopes D4, D5. Add application scope・destinations of prohibited substances of substances of classification "P" and classification "D / P" in GADSL. Change the standard form of chemical substance survey from our form to chemSHERPA. Add contents of Relating to automobile and Non-use warranty in the Survey form.	2019/03/08	Nakajima	Narihara

23	・Tributyltin compounds, Triphenyl tin compounds, were change to Tri-substituted organotin compounds. ・About Bis(tributyl tin)=oxide(TBTO), change from threshold 1000ppm to prohibition of intentional use . ・About PFOA and its compounds, change the scope from ether to related substances . ・Add PFHxS and its salts and related substances as prohibited substances. ・Eliminate perchlorate from the list. ・About DBP,DEHP,BBP, DIBP, the four substances threshold was changed to total less than 1000ppm. Add 300ppm as our management value. ・About DBP,DEHP,BBP, DIBP, its threshold was changed from each value to four substances total value less than 1000ppm.	2020/1/17	Nakajima	Watanabe
24	・“Environmental management substances-list of prohibited substances” changed to “Prohibited materials”, revised the term. ・“Environmental management substances-List of controlled substances” changed to “Controlled materials”, the term and section 4-1-2 revised. ・Section 4-1-3 Packaging materials revised. ・About PBDEs threshold were changed from 1000ppm to total value less than 500ppm. Controlled values were changed from 800ppm to total value less than 400ppm. ・Added “Dechlorane Plus” TM as Prohibited substances. ・Red phosphorus was changed to Prohibited substances from Controlled Substances ・Added PIP(3:1) and PCTP among the 5 PBT substances promulgated with 2021/1/21 based on TSCA Article 6(h). ・Added UV-328 as Prohibited substances.	2021/3/17	Nakajima	Watanabe
25	・3 Definition ②Contain Added regarding how to report substances in case of multiple purchases. ・Changed from “Halogenated Organic Compounds” to “Chlorine・Bromine Organic Compounds” at ” major classification” column. ・20 Regarding target laws and regulation in the column of Tris Phosphates column, changed from “US Vermont State Law” to “US domestic law”. ・23 Regarding target laws and regulation in the column of PFOA and its compounds column, changed from “REACH Restricted substances” to “POPs Regulation”. ・25 Added PFHxA, its salts and PFHxA related substances ・26 Added PFCA (C9-C14) ・27Added PFCA (C9-C20) ・46 Added Pigment Violet-29 ・Added Red Phosphorus as voluntary report at 4-1-2 Controlled substances.	2022/3/18	Nakajima	Watanabe
26	・Added NISSEI ELECTRIC (SINGAPORE) PTE. LTD. at 2-1. Applied sites. ・Added about packaging materials discarded at NISSEI group in 2.2.⑦. ・Limited to applying usage for Cobalt dichloride as desiccant	2023/3/30	Nakajima	Watanabe

	indicator, and changed regulatory background to ‘REACH restricted substances’ from ‘customer demand’. ・Changed ‘ Bis(tributyltin) oxide (TBTO)’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ ・Changed ‘Polychlorinated biphenyls’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ ・Changed ‘Polychlorinated naphthalene’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ ・Added Medium chain chlorinated paraffins (MCCP). ・Changed ‘Dechlorane Plus ’ to ‘Prohibited content’ from ‘Prohibited from intentional use’, and changed regulatory background to POPs convention from ‘customer demand’. ・Regarding PFHxS, added POPs convention as regulatory background. ・Changed PFHxA to ‘threshold 25ppb, 1000ppb’ from ‘Prohibited from intentional use’, and changed regulatory background to REACH Regulation from ‘customer demand’. ・Regarding PFCAs(C9-C21), added its salt and related substances, changed regulatory background to POPs convention from ‘customer demand’. ・Added Long-Chain Perfluoroalkyl carboxylate (LCPFAC). ・Changed ‘2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl) (UV-320)’ to ‘Prohibited contain’ from ‘Prohibited from intentional use’ ・Regarding UV-328, changed to ‘Prohibited content’ from threshold 1000ppm, and change regulatory background to ‘POPs convention’ from ‘REACH restricted substances’. ・Added MOAH and MOSH. ・Regarding scope of 4-1-3.Packaging material, limited to ②⑥ packaging material in ‘2-2.Scope applicable to materials / parts / products’ ・Added NISSEI ELECTRIC (SINGAPORE) PTE. LTD. at 7 Contact information.			
27	・Changed the description of "RoHS 10 substances" to " RoHS Directive 2011/65/EU Annex II amended by Directive (EU)2015/863" ・Regarding Short chain chlorinated paraffins (SCCP) , changed to POPs regulation from POPs convention, change to “Class 1 Chemical substances control law” from IEC62474. ・Deleted RoHS directive from “Laws and regulations” of Medium chain chlorinated paraffins (MCCP). ・Changed “Laws and regulations” of Hexabromocyclododecane to EU POPs regulation from POPs convention. ・Changed “Laws and regulations” of PFOS to POPs regulation from POPs convention. ・Deleted packing material from the issues requiring consideration about Phthalates contamination risk. ・Added threshold 100ppm of USA Model Toxics in Packaging Legislation to four Phthalate esters (DBP, DEHP, BBP, DIBP). ・Added “Intentional use prohibited” to threshold of PFHxS and its salts, and changed “Laws and regulations” to “Class 1 Chemical substances control law” from “POPs convention”. ・Changed “Laws and regulations” of Formaldehyde to REACH	2024/3/29	Nakajima	Watanabe

	Restricted Substances from Germany Chemical Prohibition Rule ・Due to the change of department name, change to Procurement from Purchasing. Changed the phone numbers of related companies at 7 Contact information.			
28	・Added the controlled substances for which management is to be strengthened due to customer and regulatory trends in addition to chemSHERPA managed substances to 3. Definition of terms. ・Changed PBDE allowable concentration 350ppm from 500ppm, and controlled value 280ppm from 400ppm. ・Regarding Polychloronaphthalenes (PCN), added “Class 1 Chemical substances control law”, and changed to POPs regulation from POPs convention. ・Added Pentachlorophenol(PCP) and its salts and esters. ・Added Pentachlorobenzene ・Regarding Dechlorane Plus, added “Class 1 Chemical substances control law”, and changed to POPs regulation from POPs convention. ・Added Perfluoro-1- octanesulfonyl fluoride ・Added intentional use prohibition to thresholds for PFOA and its salts and PFOA-related substances, and added “Class 1 Chemical substances control law”. ・Regarding PFHxA, changed to REACH Restricted substances from REACH regulation. ・Added alternative fluorocarbons (HFCs) to ozone-depleting substances ・Regarding UV-328, added “Class 1 Chemical substances control law” , and changed to POPs regulations from POPs convention ・Added D6 ・Added Bisphenol A(BPA) ・Added 40ppm as a threshold of battery in Table4-1-1② Allowable concentration and judgment standard ・Added exemption 6(b)-I and 6(b)-II in Table4-1-1③ ・Specified Decabromodiphenyl Ethane (DBDPE) as a specially controlled substances requiring reporting ・Added NEI telephone number	2025/2/28	Nakajima	Watanabe