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Green Procurement Standard for Production Materials

NIDEC COMPONENTS CORPORATION

**- Cooperation request to vendors for eliminating harmful
chemicals from products -**

Version 14

Establishment September 20, 2006

Approval
Abe

NIDEC COMPONENTS CORPORATION

Introduction

With the purpose to achieve “reduction and elimination of harmful chemicals” in products as stipulated in the environmental policy, NIDEC COMPONENTS CORPORATION has promoted its activities to prioritize procurement of production materials with less environmental impact by establishing the framework to investigate the status of harmful chemical inclusion in the production materials. In global trends where laws and regulations related to harmful chemicals such as RoHS Directive have been announced and enforced in various countries and regions, improvement/establishment of more stringent environmental assurance framework are requested to prohibit inclusion of banned substances in the products.

Having such a situation as background, NIDEC COMPONENTS CORPORATION will continue to promote its Green Procurement related to the production materials, an important policy in improving/establishing the environmental assurance framework, supported by further cooperation of the vendors. To promote this initiative, NIDEC COMPONENTS CORPORATION will create “Green Procurement Standard for Production Materials” to radically eliminate the harmful chemicals from its products.

The Green Procurement related to the production materials cannot be achieved without support and cooperation of vendors who supply production materials to us. Therefore, we would ask your kind cooperation and understanding in promoting this initiative.

NIDEC COMPONENTS CORPORATION

Application scope

The scope of application of this Standard is the entire production materials comprising the products of NIDEC COMPONENTS CORPORATION

Definition of terminology

In this Standard, words are defined as below.

- (1) Production material(s) Represent(s) all the finished products, semi-finished products, unit items, parts, raw materials, accessories and packaging materials comprising the products of NIDEC COMPONENTS CORPORATION
- (2) Packing material(s) Include(s) individual package boxes, external boxes, reel/taping materials, plastic bags, staples, fixing tapes, paper for describing, ink for describing and so forth.
- (3) Prohibited chemical substances
Represent the substances whose use is prohibited by NIDEC COMPONENTS CORPORATION Intentional inclusion of these substances is prohibited.
Prohibited chemical substances include the followings.
 - 1. Chemicals listed in Table 1 Chemical substances prohibited to use in production materials
 - 2. Chemicals listed in Table 2 Prohibited chemical substances with allowable level/exemption
- (4) Product Represents an output of process(es) normally. In terms of environmental assurance, it includes non-intentional substance such as foreign material adhered on the product.
- (5) Inclusion Represents the status where a substance is added, filled or included in a production material as a part of the components constituting a product whether it is intentional or not.
- (6) Impurity Represents substances impossible to eliminate from the technical standpoint. There are substances contained in natural materials and those generated as a result of synthetic reaction.
- (7) Exemption Represents any material or any part of application that are excluded from regulatory restriction, or, for which no alternative technology is available currently. This includes the substances defined by NIDEC COMPONENTS CORPORATION based on the customers' request.
- (8) Homogeneous material Represents a material that cannot be isolated by mechanical means in general. It refers to a unit of calculating/analyzing the content defined by NIDEC COMPONENTS CORPORATION. For instance, to obtain content of gold plating of a terminal with undercoat, terminal base material, undercoat and gold plating are considered as homogeneous material respectively and content should be calculated/analyzed for each of them.

Concept of environmental assurance about exclusion of harmful chemicals from its products

NIDEC COMPONENTS CORPORATION requests its vendors to submit "assurance" that no prohibited chemical substance is used in their products.

The concept of "assurance" requested by NIDEC COMPONENTS CORPORATION is based on the "establishment of environment management framework" and the "assurance of non-inclusion" realized by vendors using this framework.

NIDEC COMPONENTS CORPORATION will accept only the items "assured" by its vendors.

Specific matters to be enforced for assurance shall be indicated below.

Matters to be enforced for requested environmental assurance

● Establishment of environment management framework

(1) In establishing the environment management framework, it is requested to establish an environment management framework based on ISO14001/Eco-Stage/Eco-Action 21 and so forth. Particularly, the management framework for harmful chemicals is regarded as important.

In the management framework for harmful chemicals, following items are important.

- It is requested to establish a mechanism to realize our requirements including the prohibition of harmful chemical inclusion.
 - It is requested to establish a procedure to purchase raw materials, etc., that do not include any prohibited harmful chemicals.
 - It is requested to establish a procedure to prevent inclusion of/contamination with/unintended use of raw materials, etc., that include prohibited harmful chemicals.
 - It is requested to ensure lot management and traceability of raw materials, etc.
 - It is requested to identify the framework to inform us of the fact in the event of delivering a production material including any harmful chemical.
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- It is requested to establish a procedure for corrective action in the event of including any harmful chemical.
 - It is requested to educate your employees so that they should be able to be compliant with our requirements.

(2) It is requested that the vendor's environment management framework should satisfy a certain standard based on self-assessment by our check list for environment management framework and the audit of environment management framework by our auditors. The vendors who are trading with us on continued basis may be requested to enhance/correct/improve their management level as a result of self-assessment and/or audit.

(3) Management of Migration Contamination

It is requested to prevent unintended migration contamination of phthalates and other harmful chemical from packaging, materials, protective materials, and manufacturing equipment that do not comprise the product.

It is requested to isolate products containing harmful chemical, when vendor manufactures products containing harmful chemical in the same building separately from the delivered products.

It is requested to refer to following, and to establish an environment management framework.

- JAMP “Guidance for Management of Migration Contamination via Contact -Perspectives of Actions for Phthalates Restricted under the RoHS Directive”
- JISC “JIS Z 7201:2017 Management of chemicals in products — Principles and guidelines”

● Assurance of non-inclusion

Following matters shall be applicable as matters to be enforced by vendors for assurance of non-inclusion.

(1) Vendors are requested to confirm non-inclusion of our prohibited substances by tracing the records from its primary suppliers to the raw material manufacturers.

This includes the confirmation by acquiring information such as environmental impact substance research table, MSDS and so forth as well as conformation of suppliers' assurance framework, etc., by vendors to ensure that there should be no risk of pollution associated with the suppliers. The vendors are requested to submit these sets of information to use as an evidence of confirmation.

Besides our prohibited substances, the scope of our environmental impact substance research may include the substances in our scope of reduction as well as the substance in the scope of harmful chemical researches carried out upon customer's request.

(2) Vendors are requested to submit the analysis data that guarantee the non-inclusion.

Analysis data shall include the followings:

- Analysis data of the materials accepted by our vendors.
- Analysis data obtained from the raw material manufacturers

The substances designated as those in the scope of analysis and their analysis methods are described below. (See Table)

List of substance for analysis/analysis method

3	Precision analysis	Simplified analysis
Cadmium, Cadmium compounds	ICP-AES	X-ray fluorescence spectroscopy (EDX)
Lead, Lead compounds	ICP-AES	X-ray fluorescence spectroscopy (EDX)
Mercury, Mercury compounds	ICP-AES	X-ray fluorescence spectroscopy (EDX)
Hexavalent chromium	Absorption spectrophotometry (Diphenylcarbazide)	X-ray fluorescence spectroscopy (EDX) (Total chromium is analyzed)
PBB, PBDE	Gas chromatography	None
DIBP, DEHP, DBP, BBP	Gas chromatography (Py-GCMS, GCMS)	Thermal desorption spectrometry

Precision analysis: Analysis being carried out in a reliable outsource institute specialized in analysis.

Simplified analysis: Possible to submit upon our permission depending on the necessity.

EDX: Energy Dispersive X-ray Abbreviation of Energy dispersive X-ray fluorescence spectrometer.

(3) When the evidence documents (1) and (2) are made available to demonstrate that our prohibited chemicals are not included, vendors are requested to submit “Non-Inclusion Certificate” defined by NIDEC COMPONENTS CORPORATION (See Attachment 1 and Attachment 1-1). Based on this Certificate, vendors shall promise that non-inclusion status of our prohibited chemicals should be maintained on continued basis.

Non-Inclusion Certificate is prepared either based on individual production material to be procured from a vendor or for entire production materials to be procured from the vendor.

●Basic Trading Agreement

Vendors are requested to enter into an agreement with NIDEC COMPONENTS CORPORATION concerning the assurance of non-inclusion for the harmful chemicals we prohibited.

An item related to the Green Procurement of production materials, i.e., a new paragraph “Memorandum for assurance of non-inclusion for environmental impact substance,” was added to the Basic Trading Agreement recently with the purpose to ensure mutual awareness of the importance of assurance for non-inclusion of prohibited substances between NIDEC COMPONENTS CORPORATION and vendors. Vendors are requested to enter into this new Basic Trading Agreement. The vendors who already entered into the Basic Trading Agreement may be requested to enter into “Memorandum for assurance of non-inclusion for environmental impact substance” (See Attachment 2) in an individual Memorandum format based on the decision of our Purchasing Department. The stated contents are the same in both formats.

List of submission documents for environmental assurance

Submission documents for environmental assurance may be summarized as below.

Name of submission document	Details	Unit for preparing/submitting the documents by vendor
Basic Trading Agreement/Memorandum	Memorandum for assurance of non-inclusion for environmental impact substance (they are available in two formats: Format included in the Basic Trading Agreement and Format of individual memorandum.)	For each vendor
Non-Inclusion Certificate for chemicals included in the products	Assurance for non-inclusion of our prohibited chemicals	For each production material. For each vendor if comprehensive treatment is feasible.
Information for inclusion of harmful chemicals	chemSHERPA, MSDS, environmental impact substance research table, etc. (Including theoretical value, calculation result, etc.)	For each production material.
Analysis data	Actual analysis data based on EDX, ICP and so forth. (Harmful chemicals to be analyzed are designated by NIDEC COMPONENTS CORPORATION. There are analysis data of accepted materials by vendors and analysis data by raw material manufacturers.)	For each production material. For each component of production material, whenever necessary.

Submission documents for change control

Including the design change, if there is any change in the harmful substance included in the product through any process change (the process change may include any change in equipment, die, material and processing method used for manufacturing and change of outsources), the vendor shall inform us of the fact in advance as it should be considered as an important change that may influence the product quality. While the contents are the same as those already stipulated in the Basic Trading Agreement for vendors, thorough compliance with the request of information submission is requested for vendors by using Advance Application of Process Change based on the format designated by our Purchasing Department in charge.

Communication in the event of non-conformance/failure

Vendors are requested to inform us of the fact in the event of any contamination with/unintended use of harmful chemicals in their products. Reporting the details of the event is particularly important, if the defective item was delivered or may have delivered to us. The reporting shall be made as prompt as possible in written form (regardless of the means including e-mails and facsimile).

Table 1: Chemical substances prohibited to use in production materials

Chemical substance whose intentional use to production material is prohibited

No.	CAS No.	Substance name { } : Alternative name
1	-	Asbestos {Asbestos group}
2	-	Azo compound forming a specific amine
3	309-00-2	Aldrin
4	79-20-8	Endrin
5	115-29-7	Endosulfan
6	-	Cadmium and its compounds
7	-	Hexavalent chromium compounds
8	143-50-0	Chlordecone
9	57-74-9	Chlordanes
10	115-32-2	Kelthane or dicofol {2,2,2-trichloro-1,2-bis(4-chlorophenyl)ethanol}
11	7646-79-9	Cobalt chloride
12	-	Tri-substituted organostannic compounds (including tributyltin compounds and triphenyltin compounds) {Specific organostannic compounds}
13	-	Dibutyltin (DBT) compounds
14	-	Diocetyl tin (DOT) compounds
15	107-06-2	1,2-Dichloroethane
16	75-09-2	Dichloromethane {Methylene chlorides}
17	75-35-4	1,1-dichloroethylene {Vinylidene chloride}
18	156-59-2	Cis-1,2-dichloroethylene
19	546-75-6	1,3-dichloropropene {D-D}
20	-	Mercury and its compounds
21	-	Dioxin group
22	-	N,N'-Ditolyl-p-phenylenediamine, N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylenediamine
23	-	Lead and its compounds
24	127-18-4	Tetrachloroethylene
25	60-57-1	Dieldrin
26	789-02-6	DDT
27	-	DBBT group
28	3194-55-6	Hexabromocyclododecane {HBCDD}
29	8001-35-2	Toxaphene

No.	CAS No.	Substance name{ } : Alternative name
30	79-005	1,1,2-Trichloroethane
31	79-01-6	Trichloroethylene
32	-	β -naphthylamine
33	2385-85-5	Mirex {dodecachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd)pentalene}
34	1327-53-3 1303-28-2	Diarsenic trioxide, diarsenic pentoxide
35	-	Perfluorooctanesulfonic acid {PFOS}, and its salts
36	-	Perfluorooctylsulfonyl fluoride {PFOSF}
37	335-67-1	Perfluorooctanoic acid {PFOA}, its salts and ester
38	-	Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain {C9-C14 PFCA}
39	-	Perfluorohexane-1-sulfonic acid(PFHxS), its salts, related substances
40	84-69-5 117-81-7 84-74-2 85-68-7	Diisobutyl Phthalate {DIBP} Bis(2-ethylhexyl) phthalate {DEHP} Dibutyl Phthalate {DBP} Butyl benzyl phthalate {BBP}
41	61788-76-9	Short chain chloroparaffin {short chain chlorinated paraffin} (carbon number 10-13)
42	624-49-7	Dimethyl fumarate (DMF) {Dimethyl fumarate}
43	608-93-5	Pentachlorobenzene
44	319-84-6	α -hexachlorocyclo-hexane
45	319-85-7	β -hexachlorocyclo-hexane
46	58-89-9	γ -hexachlorocyclo-hexane {Linden}
47	118-74-1	Hexachlorobenzene {Perchlorobenzene}
48	87-68-3	Hexachloro-1,3-butadiene
49	-	Tetrabromo diphenyl ether
50	-	Pentabromo diphenyl ether
51	-	Hexabromo diphenyl ether
52	-	Heptabromo diphenyl ether
53	1304-56-9	Beryllium oxide
54	71-43-2	Benzen
55	3846-71-7	2-(2H-1,2,3-benzotriazole-2-yl)-4,6-di-tert-butylphenol
56	61788-33-8	Polychlorinated terphenyls {PCT}
57	1336-36-3	Polychlorinated biphenyls {PCB}
58	67778-32-7	PBB {Polybrominated biphenyl}
59	-	PBDE {Polybrominated diphenyl ether}*
60	-	Polychloronaphthalene Group {PCN}
61	50-00-0	Formaldehyde
62	92-93-3	4-nitro-bipheny and its salts

No.	CAS No.	Substance name{ } : Alternative name
63	542-88-1	Bis chloro methyl ether {Oxy-bis-chloro methane}
64	7723-14-0	Yellow phosphorus
65	126-72-7	Tris(2,3-Dibromopropyl) phosphate {TRIS}
66	115-96-8	Tris phosphate 2-chloroethyl {TCEP}
67	545-55-1	Tris(1-aziridinyl)phosphine oxide {TEPA}
68	-	Ozone depleting substances
69	-	Polycyclic aromatic hydrocarbon {PAH}
70	-	Fluorine based greenhouse gasses (PFC, SF6, HFC)
71	-	Radioactive substances

Table 2: Prohibited chemical substances with allowable level/exemption

Among the prohibited chemical substances in Table 1, following prohibited chemical substances have conditions for allowable level/exemption as impurities.

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Cadmium	Cadmium for resins supplied to E&MC Business Dept.	5ppm
	Cadmium for resins supplied to other business departments	75/100ppm
	Metal cadmium	75ppm
	Solder	20ppm
	Total amount of heavy metals (cadmium, mercury, lead and hexavalent chromium) in the case of packaging materials	Total 100ppm
	Plating of electric contact for which high reliability is requested and in case no alternative option is available.	Exemption
Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Lead	Lead in resins supplied to E&MC Business Dept.	100ppm
	Lead in resins supplied to other business departments	1000ppm
	Lead in metals	1000ppm
	Total amount of heavy metals (cadmium, mercury, lead and hexavalent chromium) in the case of packaging materials	Total 100ppm
	Lead included in glass of electric/electronic parts Lead included in ceramics of electric/electronic parts in capacitor (piezoelectric element, etc.) excluding ferroelectric ceramics Lead included in compound based on glass or ceramics as base material in electric/electronic parts	Exemption
	Lead under 0.35wt% in steel material	
	Lead under 0.4wt% in aluminum	
	Lead under 4wt% in copper alloy	
	Lead under 1000ppm in solder	
	Lead in high melting point solder(e.g.: Lead 85wt% or above)	
	Lead in white glass used for optical equipment	
	Lead in trimmer potentiometer parts based on cermet as main component	
	Lead in production materials designated by us	

Table 2 (continued): Prohibited chemical substances with allowable level/exemption

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Mercury	Mercury in production material	1000ppm
	Total amount of heavy metals (cadmium, mercury, lead and hexavalent chromium) in the case of packaging materials (impurities)	Total 100ppm
	Production materials designated by us	Exemption

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Hexavalent chromium	Hexavalent chromium in production material	1000ppm
	Total amount of heavy metals (cadmium, mercury, lead and hexavalent chromium) in the case of packaging materials (impurities)	Total 100ppm
	Production materials designated by us	Exemption

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
PBB/PBDE	PBB/PBDE in production material	1000ppm

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
DIBP/DEHP/DBP/BBP	DIBP/DEHP/DBP/BBP in production material	1000ppm

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Formaldehyde	Plywood, particle board (for construction materials and audio systems)	Desiccator method Max. 0.15mg/m ³ or below

Substance name	Scope/Condition of restriction	Allowable value (Threshold value)/Exemption
Perfluorooctanoic acid {PFOA}, its salts	Surfactant, disperse agent	PFOA and its salts : 25ppb PFOA related substances : 1000ppb

To: NIDEC COMPONENTS CORPORATION

Non-Inclusion Certificate for chemicals included in the products

- Chemicals prohibited to use in the production materials stated in Green Procurement Standard for Production Materials -

Company name

Representative name

(or personnel in charge of environment)

Company
seal

We guarantee that all the products and its parts (including accessories, package/packing materials and any other items delivered together with the product) we (including the affiliated companies and our partners) deliver to NIDEC COMPONENTS CORPORATION directly or through any third party do not include any of the chemical substance stated below.

(Green Procurement Standard for Production Materials Version 14 Stated substance)

(Parts, Material No.: _____)

List shall be attached as an attachment if spaces to state parts and materials in scope are insufficient.

Statement

Prohibited chemical substances

Intentional use/inclusion of the following chemicals shall be prohibited.

1. Green Procurement Standard for Production Materials Chemicals stated in Table 1
Chemical substances prohibited to use in production materials
2. Green Procurement Standard for Production Materials Chemicals stated in Table 2
Prohibited chemical substances with allowable level/exemption

To: NIDEC COMPONENTS CORPORATION

Non-Inclusion Certificate for chemicals included in the products

- Chemicals prohibited to use in the production materials stated in Green Procurement Standard for Production Materials -

Company name Representative name (or personnel in charge of environment)	Company seal
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We guarantee that all the products and its parts (including accessories, package/packing materials and any other items delivered together with the product) we (including the affiliated companies and our partners) deliver to NIDEC COMPONENTS CORPORATION directly or through any third party do not include any of the chemical substance stated below. (Green Procurement Standard for Production Materials Version 14 Stated substance)

Statement

Prohibited chemical substances	Intentional use/inclusion of the following chemicals shall be prohibited.
1. Green Procurement Standard for Production Materials Chemicals stated in Table 1 Chemical substances prohibited to use in production materials	
2. Green Procurement Standard for Production Materials Chemicals stated in Table 2 Prohibited chemical substances with allowable level/exemption	

Attachment 2: Memorandum format

Memorandum for assurance of non-inclusion for environmental impact substance

NIDEC COMPONENTS CORPORATION (hereinafter referred to as “A”) and _____ (hereinafter referred to as “B”) shall close a memorandum herewith as below concerning the assurance of non-inclusion for environmental impact substance in products, parts and materials (hereinafter referred to as “Products”) that B delivers to A.

Article 1 Assurance of non-inclusion

- (1) B shall guarantee that the concentration of chemical substances designated by A (hereinafter referred to as “Designated Substances”) in the Products shall be under the value stipulated by A (hereinafter referred to as “Inclusion Standard”). In compliance with Japanese and international laws and/or standards, A shall indicate to B the products in the scope, designated substances and inclusion standard each time and B shall submit to A its Non-Inclusion Certificate about them.
- (2) In the preceding paragraph, B shall inform A of the fact if there is any change in the concentration of the Designated Substances due to any change of material, parts, method or process of manufacturing the Products that B (including suppliers to B and B’s outsourcees) supplies to A.
- (3) In the preceding Paragraph 2, the section related to the materials supplied by A to B, or, raw materials, parts and products designated by A (it refers to the case where specific manufacturer, brand and model are all designated by A) shall be out of the scope of B’s obligation for assurance.

Article 2 Provision of measurement data

A may be allowed to request to B the measurement data for the concentration of the designated substance to verify the details of the Non-Inclusion Certificate stated in Paragraph 1 of the preceding Article.

Article 3 Reporting

If there is any doubt in the contents that B submitted to A based on the preceding Article 2, A may request B to submit necessary materials and report.

Article 4 Compensation for damage

- (1) In the event of any damage to A caused by B’ violation of this Memorandum including the false reporting, B shall be responsible for compensation of the damage accrued. However, the amount of compensation shall be determined based on mutual consultation between A and B.
- (2) In the event of any problem occurred between A and a third party due to B’ violation of this Memorandum, B shall make its maximum effort to solve the problem concerned.

As an evidence of closure of this Memorandum, two copies shall be prepared, signed and sealed. Then, each party of this Memorandum (A, B) shall preserve each one copy of this document.



YYYY/MM/DD





A

B



(Annex)

Change history

Revision code	Change date	Change point and change details
	2007.8.22	<p>Table 1: Chemical substances prohibited to use in production materials</p> <p>Addition and order change for prohibited chemical substances</p> <p><Additional substance></p> <p>5 substances were designated as Class 1 chemical substance in the scope of supervision based on CSCL regulation.</p> <ul style="list-style-type: none">• 2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol• 2,4-di-tert-butyl-6-[(2-nitrophenyl)diazenyl]phenol• Perfluoro-1,2-dimethylcyclohexane• Hexachloro-1,3-butadiene• Kelthane or dicofof <p>3 substances were designated as substances prohibited by customers and the request for prohibition was addressed.</p> <ul style="list-style-type: none">• PFOS (Perfluorooctanesulfonic acid (including salts))• Beryllium oxide• Formaldehyde
	2007.9.7	<ol style="list-style-type: none">1. Table 2: Prohibited chemical substances with allowable level/exemption (Page 8)<ol style="list-style-type: none">1) Addition of exemption for Product Name: Cadmium<ul style="list-style-type: none">• Plating of electric contact for which high reliability is requested and in case no alternative option is available.• Optical glass, filter glass2) Addition of exemption for Product Name: Cadmium<ul style="list-style-type: none">• Optical glass, filter glass2. Assurance of non-inclusion (Page 4)<p>(3) When the evidence documents (1) and (2) are made available to demonstrate that our prohibited chemicals are not included, vendors are requested to submit "Non-Inclusion Certificate" defined by NIDEC COMPONENTS CORPORATION (See Attachment 1 and Attachment 1-1).</p>3. Addition of Attachment 1-1: Comprehensive Certificate format4. Addition of page numbers
	2007.12.25	<ol style="list-style-type: none">1. Addition of matters to be enforced for requested environmental assurance<ul style="list-style-type: none">• Submission documents for change control (Page 5)• Communication in the event of non-conformance/failure (Page 5)

Revision code	Change date	Change point and change details
	2008.5.30	<ol style="list-style-type: none"> 1. Revision number of the Green Procurement Standard for Production Materials is added to the Non-Inclusion Certificate on the front page and in Attachment. 2. In Table 1, “Prohibited chemical substances for use in production materials,” Chloroparaffin {chlorinated paraffin} is changed to short chain chloroparaffin {short chain chlorinated paraffin} (carbon number 10-13) (Page 7) 3. “Formaldehyde” was added to Table 2: Prohibited chemical substances with allowable level/exemption (Page 9)
	2009.7.23	<p>Table 1: Chemical substances prohibited to use in production materials <Additional substance> “Cobalt chloride” was added in prohibited chemicals (Page 6)</p>
	2010.6.14	<p>Table 1: Chemical substances prohibited to use in production materials <Additional substance> Addition of 24 substances to the entry of prohibited chemical substances (Pages 6 and 7) Dibutyltin compounds, Dioctyltin compounds, Pentachlorobenzene, α-hexachlorocyclo-hexane, β-hexachlorocyclo-hexane, γ-hexachlorocyclo-hexane {Linden}, Chlordecone, Dimethyl fumarate, Fluorine based greenhouse gasses (PFC, SF6, HFC), Aldrin, Endrin, Chlordanes, 1,2-Dichloroethane, DDT, Dieldrin, 1,1,2-Trichloroethane, β-naphthylamine, Dichloromethane, Tetrachloroethylene, Trichloroethylene, Toxaphene, 1,1-dichloroethylene, Cis-1,2-dichloroethylene, 1,3-dichloropropene</p> <p><Change of substance name> Name of “tributyltin compounds and triphenyltin compounds” in prohibited substance was changed to “Tri-substituted organostannic compounds (including tributyltin compounds and triphenyltin compounds)”</p>
	2010.10.8	<ol style="list-style-type: none"> 1. List of prohibited chemical substances is changed to Table 1 and Table 2 from the List of Prohibited Chemical Substances. <ul style="list-style-type: none"> • Change in details of Definition of terminology, (3) Prohibited chemical substances • Change in sub-title and list in Attachment 1 and Attachment 1-1

Revision code	Change date	Change point and change details
8	2011.6.8	<p>Change in main text: RoHS Directive description</p> <p>Table 1: Chemical substances prohibited to use in production materials</p> <ul style="list-style-type: none"> • Addition of 7 substances to the entry of prohibited chemical substances (Pages 7 and 8) Hexabromocyclododecane {HBCDD}, Diarsenic trioxide, Diarsenic pentoxide, Perfluorooctylsulfonylfluoride {PFOSF}, Diisobutyl Phthalate, Tetrabromo diphenyl ether, Pentabromo diphenyl ether, Hexabromo diphenyl ether, Heptabromo diphenyl ether, Tris(2,3-Dibromopropyl) phosphate {TRIS}, Tris phosphate 2-chloroethyl {TCEP}, Tris(1-aziridinyl)phosphine oxide {TEPA} <p>Table 2: Chemical substances with allowable level/exemption</p> <ul style="list-style-type: none"> • 2 changes in requirements for exemption of lead from RoHS application. <ul style="list-style-type: none"> • Lead included in glass of electric/electronic parts • Lead included in ceramics of electric/electronic parts in capacitor (piezoelectric element, etc.) excluding ferroelectric ceramics • Lead included in compound based on glass or ceramics as base material in electric/electronic parts • Lead in white glass used for optical equipment • Lead in trimmer potentiometer parts based on cermet as main component
9	2014.10.10	<p>Table 1: Chemical substances prohibited to use in production materials</p> <ul style="list-style-type: none"> • Addition of 3 substances to the entry of prohibited chemical substances (Pages 6, 7 and 8) Endosulfan, Perfluorooctanoic acid {PFOA}, its acids and ester, Polycyclic aromatic hydrocarbon {PAH} <p>Table 2: Chemical substances with allowable level/exemption</p> <ul style="list-style-type: none"> • Change in the scope/condition of restriction for Formaldehyde <ul style="list-style-type: none"> • Adhesives are excluded and particle board (for construction materials and audio systems) was added. • Restriction for Perfluorooctanoic acid {PFOA}, its acids and ester was added.
10	2015.11.10	<p>Table 1: Chemical substances prohibited to use in production materials</p> <ul style="list-style-type: none"> • Addition of 1 substance to the entry of prohibited chemical substances (Page 7) N-Phenyl-benzenamine reaction products with styrene and 2,4,4-trimethylpenten {BNST}
11	2017.5.10	<p>Table 1: Chemical substances prohibited to use in production materials</p> <ul style="list-style-type: none"> • Addition of 3 substances to the entry of prohibited chemical substances (Page 7) Bis(2-ethylhexyl) phthalate {DEHP}, Dibutyl Phthalate {DBP}, Butyl benzyl phthalate {BBP}
12	2019.9.4	<p>Pages 4: List of substance for analysis/analysis method</p> <ul style="list-style-type: none"> • Addition of DIBP/DEHP/DBP/BBP <p>Table 1: Chemical substances prohibited to use in production materials</p> <ul style="list-style-type: none"> • Elimination of 2,4-di-tert-butyl-6-[(2-nitrophenyl)diazenyl] phenol, 2,2',6,6'-Tetra-tert-butyl-4,4'-methylenediphenol, 9-methoxy-7H-furo[3,2-g][1]benzopyran-7-one {methoxsalen}, N-Phenyl-benzenamine reaction products with styrene and 2,4,4-trimethylpenten {BNST}, Trifluoroacetic acid group, Pentachlorophenol group {PCP}, Perfluoro-1,2-dimethylcyclohexane, 2,4,6-Tri-tert-butylphenol {2,4,6-Tri-t-butylphenol}, Octamethylpyrophosphoramidate {Schradan}, Organophosphorous compound, Aluminium phosphide

Revision code	Change date	Change point and change details
	2021.11.11	Pages 5: List of submission documents for environmental assurance <ul style="list-style-type: none"> • Addition of “Information for inclusion of harmful chemicals” chemSHERPA Table 1: Chemical substances prohibited to use in production materials (Pages 7) <ul style="list-style-type: none"> • 追加 <ul style="list-style-type: none"> Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain { C9-C14 PFCA } Perfluorohexane-1-sulfonic acid(PFHxS), its salts, related substances
	2023.9.4	Company name change <ul style="list-style-type: none"> • NIDEC COPAL ELECTRONICS CORPORATION⇒NIDEC COMPONENTS CORPORATION Pages 3: Establishment of environment management framework <ul style="list-style-type: none"> • Addition of “(3)Management of Migration Contamination” Pages 4: List of substance for analysis/analysis method <ul style="list-style-type: none"> • Addition of DIBP, DEHP, DBP, BBP Simplified analysis Thermal desorption spectrometry