

## 環保承諾暨安全衛生規範 Environmental commitment, safety and health norms

### 1 目的 Purpose :

- 1.1 華星光通已因應全球環保法令要求制定「QP2-QA24 綠色產品管理作業程序」及「QP3-QA002 危害物質管制規範」及職業安全衛生法令，以規範華星光通生產之產品其有害物質之使用，及環保、安全及衛生相關管控要求的符合性程度，並說明我們保護地球環境、減輕對生態系統衝擊之承諾。

In response to global environmental, Occupational safety and health legal requirements, Luxnet has developed 「QP2-QA24 Green Product Management Procedure」 and 「QP3-QA002 HSF Control Specification」 in order to regulate the use of restricted materials during the production of Luxnet products, comply with any environmental, Occupational safety and health regulations, maintain the safety of personnel and reduce the impact on the ecosystem.

- 1.2 除了遵守現行之產品禁用與限用物質的要求之外，我們也持續關注國際間環境物質的動態，如美國挪威產品法規：禁止消費性產品中使用某些有害物質禁令（PoHS）；歐盟-化學物質註冊、評估、授權和管制（REACH）；歐盟電器及電子產品禁用指令（RoHS）；業界之無鹵規範；基於尊重國際人權之立場之（衝突礦產）等。

In addition to complying with the requirements of regulating the use of restricted substances, we are continually monitoring for any developments in the international environmental movement including: USA and Norway product regulations which prohibits the consumption of products that contain certain hazardous substances (PoHS); EU - Chemical substance registration, evaluation, authorization and control (REACH); EU directive to ban electrical and electronic products (RoHS); Halogen free specification in the industry; based on respect for the stance on international human rights (conflict minerals) and so on.

- 1.3 如上所列地域性或國家法律法規等對某些有害物質進行限制或禁用等之要求，即使這些法律法規及指令、物質未被明確列入本文件中，秉持對環境保護之承諾，我們要求供應商必須於 2015 年 1 月前符合及遵守相關要求與規定，並善盡告知之責。

With regards to the impact on the environment, if there are regulations beyond the scope of the above, we expect our suppliers to uphold its commitment to environmental protection. We ask that suppliers must comply with the relevant requirements and regulations by January 2015, and to fulfill the duty to inform Luxnet of the status by then.

## 2 供應商要求及企業責任 Supplier Requirements and Corporate Responsibility :

### 2.1 RoHS(全系列產品 Full range of products) :

2.1.1 請提供交予華星光通最終產品其原材料之，第三方公證單位檢測報告，並遵守 RoHS (2011/65/EU)之限用指令。

Please provide Luxnet with the final product's raw material and a test report from a notary of a third party source to comply with RoHS (2011/65/EU) directives.

2.1.2 為確保各供應商之製程、包裝、搬運過程中無產生 RoHS 禁用之物質，檢測報告效期為一年，以證明製程中無禁用物質之污染。

In order to ensure that each supplier's manufacturing process, packaging, shipping and handling process do not produce RoHS restricted substance, test reports are valid for only one year.

### 2.1.3 企業責任 Corporate Responsibility :

2.1.3.1 供貨予華星光通之零部件若有引用排外條款需提供排外聲明文件。

Exemption declarations are required if parts supplied to Luxnet are referenced by exclusionary terms.

### 2.2 PFOS/PFOA(Chip/Filter/亮面金屬 Shiny metal) :

2.2.1 請提供交予華星光通最終產品其原材料之第三方公證單位檢測報告，並遵守符合歐盟電器及電子產品禁用全氟辛烷磺酸/全氟辛酸 指令(2006/122/EC)，簡稱 PFOS/PFOA。

Please provide Luxnet with the final product's raw material and a test report from a notary of a third party source to show compliance of the PFOS/PFOA Directive (2006/122/EC).

2.2.2 為確保各供應商之製程、包裝、搬運過程中無產生 PFOS/PFOA 禁用之物質，檢測報告效期為一年，以證明製程中無禁用物質之污染。

In order to ensure that each supplier's manufacturing process, packaging, shipping and handling process do not produce PFOS/PFOA restricted substance, test reports are valid for only one year.

### 2.3 無鹵規範 Halogen Free\_(PCB/塑膠件 Plastic parts) :

2.3.1 請提供交予華星光通最終產品其原材料之第三方公證單位之檢測報告，並符合業界之無鹵規範。

Please provide Luxnet with the final product's raw material and a test report from a notary of a third party source which comply with the specifications in line with the industry standards for products contacting halogen.

### 2.4 REACH(全系列產品 Full range of products) :

2.4.1 詳細高關注度物質清單參見網址: <http://echa.europa.eu>

Information refer to web address at <http://echa.europa.eu>

2.4.2 如出示檢測報告有實質之困難度，可接受簽屬由 Luxnet 提供或貴司之「REACH 聲明書」。

If there are difficulties in providing the test report, it is acceptable to sign the Luxnet provided contract stating the absence of restricted substances or provide us with the 「REACH Compliance Declaration」

2.4.3 MDS (Material Data Sheet )材料均質表：因應 REACH 之規範，Luxnet 需規範製程品的所有物質，故必須建立安全性評估和化學物質 CAS No.資訊登記；於零件承認時，需出示貴司之 MDS。

In response to REACH's specifications, Luxnet needs the supplier's to provide all chemicals that are utilized during manufacturing. The MDS provided must also include the CAS No. ; To acknowledge the parts, we require your company to provide us with the MDS.

2.4.4 企業責任：如貴司每年製造或輸入歐洲之「化學品」超過一噸以上，需於 2018/05/31 日前為該化學品進行註冊申報。

Corporate Responsibility: If your company manufactures or imports a total weight of over one ton on an annual basis to Europe 「chemicals」, then you are required to register on the website before 2018/05/31.

## 2.5 衝突礦產(MDS 含有錫(Sn)、鉭(Ta)、鎢(W)、金(Au))

Conflict Minerals: (If your material datasheet includes Sn、Ta、W、Au):

2.5.1 因應 2010 年 7 月美國總統歐巴馬簽署了第 4173 號法案(H.R. 4173)「華爾街改革與消費者保護法(Dodd-Frank Act)」，如有使用錫(Sn)、鉭(Ta)、鎢(W)、金(Au)金屬之礦源需確認是否來自於剛果民主共和國；並請回覆「衝突礦產報告模板」予華星光通。

In response to Bill H.R. 4173 Dodd-Frank Act signed by U.S. President Obama on July 2010, if the use of Tin (Sn), Tantalum (Ta), Tungsten (W) or gold (Au) metal mineral resources are present, then we need to confirm whether the source of the material is from the Democratic Republic of the Congo; Please reply CMRT to Luxnet.

## 2.6 環保、安全及衛生規範 Environmental, safety and health practices :

提供工程、原料或勞務服務，應遵行環保法令及職業安全衛生法令之規定，符合環保、安全及衛生規範。

Compliance with environmental, safety and health regulations, to provide engineering, raw material or labor services in line with norms.

## 3 各項法規指令限值 Regulatory Directive Limits :

### 3.1 RoHS :

RoHS Directive 2011/65/EU RoHS 限用指令 2011/65/EU :

1. Cadmium (Cd) <100ppm (鎘含量小於 100ppm).
2. Lead (Pb) <1000ppm (鉛含量小於 1000ppm).
3. Mercury (Hg) <1000ppm (汞含量小於 1000ppm).
4. Hexavalent Chromium (Cr(VI)) <1000ppm. (六價鉻含量小於 1000ppm).
5. polybrominated biphenyls (PBBs) <1000ppm (多溴聯苯含量小於 1000ppm).
6. polybrominated diphenyl ethers (PBDEs) <1000ppm (多溴聯苯醚含量小於 1000ppm).
7. Dis(2-ethylhexyl)phthalate (DEHP) <1000ppm (鄰苯二甲酸二(2-乙基己基)酯含量小於 1000ppm).
8. Butyl benzyl phthalate (BBP)<1000ppm (鄰苯二甲酸丁苯甲酯含量小於 1000ppm).
9. Dibutyl phthalate (DBP)<1000ppm(鄰苯二甲酸二丁酯量小於 1000ppm).
10. Di-isobutyl phthalate(DIBP)<1000ppm(鄰苯二甲酸二異丁酯量小於 1000ppm).

### 3.2 PFOS/PFOA :

有害物質 PFOS/ PFOA 之允許含量佔產品比率如下:

The permissible maximum concentration values of hazardous substances present in electrical and electronic equipment, general requirements are as follows:

- Substance or constituent of preparations < 10ppm(物質或製劑組成成分中小於 10ppm)
- Semi-finished products & articles & parts < 1000ppm(半成品、成品或零件部件中小於 1000ppm)
- Textiles & other coated materials < 1ug/m<sup>2</sup> (紡織品或塗層材料中小於 1μg/m<sup>2</sup>)

### 3.3 無鹵規範 Halogen Specifications :

供應商須符合下面的無鹵素規範:

The supplier shall comply with the following Halogen specifications:

IEC 61249-2-21、JPCA-ES01 2003、IPC 4101 :

- Chloride (Cl) <900ppm (氯含量小於 900ppm).
- Bromide (Br) <900ppm (溴含量小於 900ppm).
- Total halogens contained (Cl+Br) <1500ppm (總鹵素含量(氯加溴)小於 1500ppm).

### 3.4 REACH :

所有零部件中之高關注物質含量不超過 1000ppm。

All of product contain SVHC <1000ppm.