Appendix i

New laboratory occupants are required to submit Hazard Warning Placard registration through the RSMS. To create new or revise previous placard information, please refer to HKUST RSMS User Guide.pdf section 3.2 for details.

Explanatory Notes for the Completion of the Hazard Warning Registration Forms

General guidelines

1. HSEO will review and endorse new or revised placard submission. Users are required to print the endorsed placard and insert the placard in the placard holder at the entrance of laboratories.

2. Laboratory with no recognizable hazards should display “NO SPECIAL HAZARDS”.

3. Placards are also required at entrances of plant rooms or storage areas containing hazardous materials or operations (such as swimming pool plant room).

Guidance notes for completing placard registration

1. “Number of Signs Required” refers to the number of placards to be posted. That means you will require two if your room has two different doors.

2. Please refer to Hazard Warnings and Protections Required Sections to fill in the abbreviations for the “Hazard Warnings” and “Protection Required”. Choose “NO SPECIAL HAZARD” for the rooms without hazards. The placards should not indicate any hazard which is not present in the room. Users must revise the placard whenever there are changes in the hazard status of a room through RSMS and print the updated placard for posting.

3. PI should ensure that emergency contact person can be reached through the contact numbers provided in the placard for technical information and guidance in case of emergency.

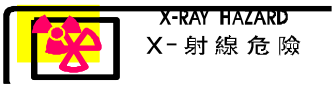
4. Only the office telephone number will be posted on the placard. “Home Phones” and “Other means of contact” will not be posted or otherwise disclosed. These will be kept in the Security Control Center for emergency contact purpose only.

Hazard Warnings

RM

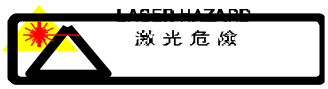
Potential hazard in the form of unsealed radioisotopes and/or possibly contaminated equipment/objects in this area.

XH



Irradiating apparatus capable of producing x-rays is present in this area.

LH

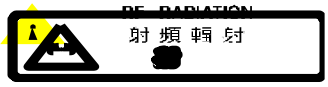


Class III or Class IV Laser present in this area.

MF

Machines capable of producing an exposure to magnetic field, radiofrequencies and microwave radiation exceeding $^{1}/_{2}$ the Threshold Limit Value TLV.

RF



See Table Below

MR

See Table Below

Radiofrequency/Microwave Threshold Limit Values (TLVs)

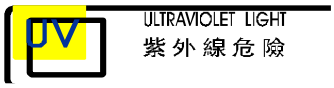
Frequency			Power Density (mW/cm^2)	Electric Field Strength Squared (V^2/m^2)	Magnetic Field Strength Squared (A^2/m^2)
10 kHz	to	3 MHz	100	377,000	2.65
3 MHz	to	30 MHz	$900/f$*	$3770 \times 900/f^2$	$900(37.7xf^2)$
30 MHz	to	100 MHz	1	3770	0.027
100 MHz	to	1 GHz	$f/100$	$3770 \times f/100$	$f/37.7 \times 100$
1 GHz	to	300GHz	10	37,700	0.265

* f = frequency in MHz

HVT

≥ 600 V AC or 1.0 kV DC, or especially hazardous situations such as exposed conductors.

UV

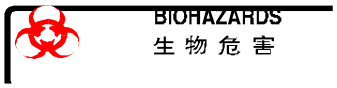
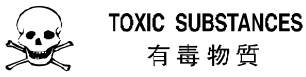


Presence of ultraviolet sources in the spectral region between 180 and 400nm which is capable of emitting UV radiation of an Effective irradiance* exceeding 0.1 W /cm2. (½ the permissible exposure for 8 hr.) This includes arc, vapor and gas discharge, incandescent and fluorescent lamps but excludes lasers.

* Effective irradiance = Total irradiance weighted against the peak of the spectral effectiveness curve (270nm).

HP

Dangerous high-pressure systems, e.g. pressure vessels, receiver, high-pressure gas line, especially when fragile apparatus is involved.

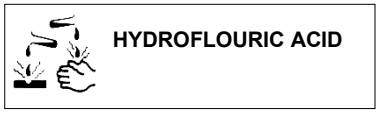
HVC		Hazard of implosion due to fracture of high vacuum vessel.
BH		Biological organisms/agents which present a hazard to human health or the environment but are unlikely to cause disease in healthy workers.
BH/ BSL2		Biological organisms/agents (Risk group 2) which can cause human disease, but under normal circumstances, are unlikely to be a serious hazard to healthy workers.
CG		Suspect or confirmed human carcinogen stored/used in this area.
LA		Animal holding or animal experiment area.
TS		Large quantity of toxic substance stored/used in this area.
TG		Toxic gases stored, used or generated in this area.
OM		Strong oxidizing material stored or used in this area.
EM		Explosive or shock-sensitive material stored or used in this area.

FM 

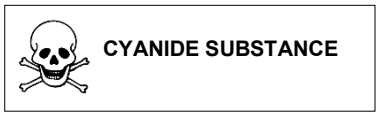
Flammable material stored or used in this area.

CM 

Corrosives (materials that may cause severe damage on contact with living tissues) are stored or used in this area.

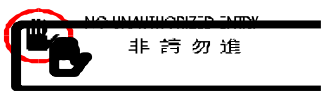
HF 

Hydrochloric acid stored or used in this area.

CN 

Cyanide compounds are stored or used in this area.

Protections Required

NE 

EP 

DR 

RS 

FS 

SG 

HH 

SS