**Application for Measurement Service at SPring-8**

**[Spokesperson]**

Name:

Organization:

Division/Department:

Date:

**1. Title:**

**2. Details of Samples:**

Information in this section is used for technical review; so please be as specific as possible.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of  Material\*1 | Shape\*2 | Quantity\*3 | Hazards\*4 | Purpose of Use\*5 | Handling/Disposal  Method\*6 | Safety  Measures |
|  |  |  |  |  |  |  |

\*1: Enter the composition as well. Avoid abbreviations.

e.g. FeNi (20 nm) / Au (5 nm) / SiO2

\*2: e.g. plate (include thin film), powder.

10 x 8 mm, thickness: 1 mm

\*3: Use appropriate units. (e.g. 3 plates, 2 kinds of powders)

\*4: e.g. poison, deadly poison, organic solvent, specified chemical substances, toxic, burnable, harmless.

\*5: Measurement Service

\*6: e.g. sealed in a plastic bag.

**3. Details of Measurement**

For each sample, specify the regions and other measurement conditions.

e.g.

sample; FeNiAuSi,

regions;

Fe2p (kinetic energy range: 7200~7240 eV, Take of angle 80degree,

30degree, 15degree)

Ranges of Binding energy 0 ~ 7500 eV

pass energy: 200 eV (or you can choose pass energy of 100 eV)

slit size of analyzer: curved 0.5 mm (fixed)

Your sample will be mounted in air, and measurements will be performed under vacuum at room temperature. Please note that sample transfer using a vacuum vessel, measurements using a flood gun, and in-situ measurements are not available. The excitation X-ray energy is fixed at 8 keV.

**4. Desired Period of Measurement and Number of Required Beamtime**

e.g. Tuesday, December 6, 2012 (8 hrs)

**5. Attendance**

5.1 Wish to attend the measurement sessions?

- Yes

- No

5.2 Has the person wishing to attend the sessions completed the SPring-8 Radiation Worker Registration for the fiscal year?

- Yes

- No

**6. Comments/Special Instructions**

**7. Contact Person's Information**

Name:

Organization:

Division/Department:

Email:

Tel:

Fax:

**Important Notes: Unacceptable Samples and Sample Environment**

The following samples and sample environment are not accepted.

a) Biological samples (e.g. animals, plants, and microorganisms)

b) "Level 4" chemicals defined by JASRI

(i.e. substances requiring the approval of the competent authority)

- Specific substances regulated by the "Law on the Prohibition of Chemical Weapons and the Regulation of Specific Chemicals"

- Narcotic and psychotropic drugs regulated by the "Narcotics and Psychotropics Control Law"

- Stimulant drugs and ingredients of stimulant drugs regulated by "Stimulant Drug Control Law"

- Hemp and hemp products regulated by the "Cannabis Control Law"

- Opium, poppy or poppy straw regulated by the "Opium Law"

- Specified poisonous substances regulated by the "Poisonous and Deleterious Substances Control Law"

- Substances for which manufacturing is prohibited under the "Industrial Safety and Health Law"

c) In situ measurements (e.g. in a gas atmosphere, at high/low temperature, etc.)

d) Insulator sample