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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JJG 1102-2014

**Verification Regulation of Installed Personnel ??, ?? Surface
Contamination Monitoring Assemblies
(English Translation)**

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3 Terminology and units of measurement (1)

3.1

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Appendix A fixed alpha, beta surface contamination monitoring device for personal verification original record format (7)

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Introduction

Fixed alpha, beta surface contamination monitoring device for personal radiation protection instruments belonging to online use for open discharge Radioactive workplace and staff of nuclear facilities the hot zone of radioactive surface contamination monitoring its performance directly affects the measurement monitoring Accurate and reliable results, relating to radiation safety.

JJF1002-2010 "national verification procedures write rules", JJF1001-2011 "common terminology and measurement Definitions ", JJF1059.1-2012" Evaluation and Expression of Uncertainty in Measurement group "constitute support the development of this regulation Foundation norms. The procedures in the preparation of IEC 61098:2003 "Radiation protection instrumentation personnel surface contamination monitoring Measuring device "(Radiationprotectioninstrumentation-Instaledpersonnelsurfacecontamination monitoringassemblies), JJG 478-1996 "alpha, beta, and gamma the surface contamination meter", GB/T 8997-2008 "alpha, beta surface contamination meters and monitors calibration ", GB/T 5202-2008" Radiation protection instrumentation alpha, beta and alpha/beta (Beta energy greater than 60keV) contamination meters and monitors "as the main technical reference, and based on fixed alpha, beta personal Surface contamination monitoring device and the practical application of technical requirements and test methods to determine the work environment.

This procedure was first formulated.

Fixed alpha, beta surface contamination test procedures personal monitoring device

1 Scope

The order applies to fixed alpha, beta surface contamination personal monitoring device initial verification, and subsequent use an examination.

This procedure does not apply to portable alpha, beta surface contamination meters and monitors, as well as maximum energy less than 60keV the beta particles measuring or monitoring instrument calibration.

2. References

This procedure references the following documents.

JJG 478-1996 alpha, beta, and gamma the surface contamination meter JJF1001-2011 common measurement terms and definitions GB/T 4960.1-2010 nuclear science and technology terms - Part 1. Nuclear Physics and Chemistry GB/T 4960.6-2008 nuclear science and technology - Part 6. Nuclear instrumentation GB/T 5202-2008 Radiation

protection instrumentation alpha, beta and alpha/beta (beta energy greater than 60keV) contamination meters and Monitor GB/T 8997-2008 alpha, beta surface contamination meters and monitors calibration IEC 61098:2003 Radiation protection instrumentation personnel surface contamination monitoring device
(Radiationpro-tectioninstrumentation-Instaledpersonnelsurfacecontaminationmonitoringass em-blies) for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments units) applies to this procedure.

3 terminology and units of measurement

3.1 Terms

JJF1001-2011 "common measurement terms and definitions", GB/T 4960.6-2008 "nuclear science and technology terms Part 6. Nuclear Instrumentation ", GB/T 4960.1-2010" Nuclear Science and Technology Terminology - Part 1. Nuclear Physics and Nuclear Chemistry "and defined the following terms and definitions apply to this procedure.

3.1.1 response Under certain conditions, the response characteristic of incentives measuring instrument or device (system), and the value shown in the instrument Energizing commercial representation. When the magnitude of radioactive sources to surface emissivity is represented, called surface emissivity response.

Consistency uniformityofresponse 3.1.2 Response for fixed alpha, beta personal surface contamination monitoring device, a plurality of detectors for detecting surface of the ring around Relative deviation should be the reference point of the response to "%" means.

3.2 units of measurement 3.2.1 [radioactive] Activity. Becquerel [Bq]; symbol. Bq.