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| **Details of the reference material producer (RMP)** | | | | | |
| Name: |  | | | | |
| Address: |  | | | | |
| File number: |  |  |  | | |
| Case number | Phase |  | | |
| Date of assessment: |  | | | | |
| Accreditation process: |  | | | | |
| Assessment type[[1]](#endnote-1) : |  | | | | |
| RMP with several locations: | | | | Yes | No |
| Name / Address of assessed locations: | | | | | |

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| Area: | Within the permanent facilities | | On-site | Mobile facilities | |
| Technical management: |  | | | | |
| Deputy: |  | | | | |
| Quality manager: |  | | | | |
| Deputy: |  | | | | |
| **Details of the assessor** | | | | | |
| Name: |  | | | | |
| Status[[2]](#endnote-2) : | LA | SA | TA | TAstat | O |
| **Assessed area** (technical fields of DAkkS, types of reference materials, sectorspecific requirements, directives/modules) | | | | | |

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**Notes on usage by the laboratory (blue colored sectors):**

* Only the name and address of the RMP shall be entered on the second page.
* Please enter the following information in the column “Reference documents“:  
  Where is the implementation of the requirement documented?   
  (State the specific reference documents, e.g. specification of the document/chapter/section)   
  Requirements of the standard that are not applicable shall be indicated accordingly.

No further entries shall be made by the RMP.

**Notes on usage by the assessor (orange colored sectors):**

* The column „Responsible“ indicates the assessor responsible to evaluate a section of the standard. The column “Appraisal” and “No of NC” shall be entered by the assessor (evaluation key see final marks)
* The appraisal in the first row of a section of the standard (e.g. 4.1 Organisation) indicates the overall appraisal after the assessment, including the prior review of documents and records. The appraisal in the first row of a section will suffice, if no non-conformity was identified for the relevant section of the standard.

# 4 General requirements

## 4.1 Contractual matters

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| **Result of review of documents and records: [[3]](#endnote-3)** | | |  |  |  |  |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:[[4]](#endnote-4)** | | | |
| No. | OE[[5]](#endnote-5) | Title / Description | Date / Version |
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| 4.1.1 | Any request, tender or contract concerning the production  of an RM shall be reviewed, following documented policies  and procedures established by the RMP, to ensure that:   1. the requirements for RMs and their production are adequately defined, documented and understood; 2. the RMP has the capability and resources to meet the requirements.   [🡺Note 1 to 3] |  |  |  |  |  |
| 4.1.2 | The review shall include any work that needs to be subcontracted by the RMP. |  |  |  |  |  |
| 4.1.3 | The RMP shall maintain records of these reviews, including any changes, records of pertinent discussions with the customer relating to the customer's requirements, and subcontracted work. |  |  |  |  |  |

## 4.2 Impartiality

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| 4.2.1 | The RMP shall be structured and managed so as to safeguard impartiality. [🡺Note] |  |  |  |  |  |
| 4.2.2 | The RMP shall:   1. have arrangements to ensure that its management and personnel are free from any undue internal and external commercial, financial and other pressures and influences that may adversely affect the quality of their work; 2. identify risks to its impartiality on an on-going basis, which shall include those risks that arise from its activities, or from its relationships, or from the relationships of its personnel; however, such relationships do not necessarily present an RMP with a risk to impartiality; 3. be able to demonstrate, if a risk to impartiality is identified, how it eliminates or minimizes such risk; 4. have top management commitment to impartiality.   [🡺Note] |  |  |  |  |  |

## 4.3 Confidentiality

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| 4.3.1 | The RMP shall be responsible for and shall treat in an appropriate manner all information obtained, including confidential information. Where information is received from another individual or body, such information shall be regarded as confidential unless the individual or body concerned places the information in the public domain or agrees to its disclosure to others. |  |  |  |  |  |
| 4.3.2 | When the RMP is required by law or authorized by contractual arrangements to release confidential information, the individual or the body concerned shall, unless prohibited by law, be notified of the information provided. |  |  |  |  |  |

# 5 Technical requirements

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| 5.1 | The RMP shall be a legal entity, or a defined part of a legal entity, that can be held responsible for all its activities related to the production of RMs. |  |  |  |  |  |
| 5.2 | The RMP shall be organized and shall operate in such a way that it meets all the applicable requirements of this International Standard, whether carrying out work at its permanent facilities or at other sites (including associated temporary or mobile facilities). |  |  |  |  |  |
| 5.3 | The RMP shall:   1. have a description of its legal status, define the organizational and management structure of the RMP, its place in any parent organization and the relations between management, technical operations, support services and subcontractors; 2. define the parts of the organization covered by the management system for the production of RMs; 3. specify the responsibility, authority and interrelationships of all personnel who manage, perform or verify work affecting the quality of RMs produced; 4. have managerial personnel, supported by technical personnel, with the authority and resources needed  to discharge their duties and to identify the occurrence  of departures from the management system or the procedures for the production of RMs and to initiate actions to prevent or minimize such departures; 5. have technical management with overall responsibility  for the technical operations and the provision of the resources needed to ensure the required quality of each operation which forms part of the RM production; 6. appoint personnel (however named) who, irrespective of other duties and responsibilities, shall have defined responsibility and authority for ensuring that the requirements of this International Standard are implemented and followed at all times - these appointed personnel shall have direct access to the highest level of management at which decisions are taken on RM production policy or resources; 7. have adequate provision (e.g. insurance or reserves) to cover liabilities arising from its activities. |  |  |  |  |  |
| 5.4 | The RMP management shall ensure that:   1. internal and external communication mechanisms are established; 2. communication takes place regarding the effectiveness  of the management system; 3. the importance of meeting customer and other requirements is communicated to the RMP personnel. |  |  |  |  |  |

# 6 Resource requirements

## 6.1 Personnel

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| 6.1.1 | The RMP shall ensure that all personnel involved in RM production are supervised and competent and that they work in accordance with the RMP's management system. |  |  |  |  |  |
| 6.1.2 | Personnel, including subcontractors, personnel of external bodies, or other individuals acting on the RMP's behalf, shall comply with the policies and procedures for management of confidential information that are set by the RMP. |  |  |  |  |  |
| 6.1.3 | The RMP shall ensure the competence of all personnel, including technical management personnel, operating under its management system who undertake activities relating to the production of each particular type of RM. There shall be sufficient personnel having the necessary education, training, technical knowledge and experience for their assigned functions. |  |  |  |  |  |
| 6.1.4 | The RMP shall have procedures for identifying training needs and providing training of personnel. The training programme shall be relevant to the present and anticipated tasks of the RMP. |  |  |  |  |  |
| 6.1.5 | The RMP shall maintain records of job descriptions for its personnel involved in RM production activities. |  |  |  |  |  |
| 6.1.6 | The RMP shall authorize competent personnel to perform particular activities relating to RM production. The RMP shall maintain records of the authorizations, competence, educational and professional qualifications of those personnel. These records shall provide evidence that individuals have been adequately trained and that their competence to perform particular activities in the RM production has been assessed. This information shall be readily available and shall include the date on which the authorization and/or competence has been confirmed. |  |  |  |  |  |

## 6.2 Subcontracting

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| 6.2.1 | Where an RMP uses subcontractors to undertake part of the production, including sampling, processing, handling, homogeneity and stability testing, characterization, storage or distribution of an RM, the RMP shall have procedures to ensure that the subcontractors' experience and technical competence are sufficient for their assigned tasks and that they comply with the relevant clauses of this International Standard and other appropriate standards. [🡺Note 1, 2] |  |  |  |  |  |
| 6.2.2 | The RMP shall select subcontractors on the basis of their ability to meet the requirements stipulated by the RMP. |  |  |  |  |  |
| 6.2.3 | RMPs shall not subcontract the following processes:   * the production planning; * the selection of subcontractors; * the assignment of property values and their uncertainties; * the authorization of property values and their uncertainties; * the authorization of RM documents. |  |  |  |  |  |
| 6.2.4 | The RMP shall establish and maintain procedures to assess  that all tasks performed by subcontractors comply with the requirements set by the RMP and with any relevant clauses  of this International Standard. |  |  |  |  |  |
| 6.2.5 | Evidence of the subcontractor's competence shall be established and maintained, including records of evaluations and any audits made of their capability to carry out contracted tasks. [🡺Note] |  |  |  |  |  |
| 6.2.6 | Where the competence of subcontractors cannot be ascertained via provision of documentary evidence, the RMP shall evaluate the competence of the subcontractor or supervise the operations carried out by the subcontractor. |  |  |  |  |  |
| 6.2.7 | The RMP shall ensure that results and the descriptions of procedures used by subcontractors are available to allow the technical evaluation of data. |  |  |  |  |  |
| 6.2.8 | When working with subcontractors, the RMP shall have personnel operating under its management system having sufficient knowledge of the subcontractor’s task to evaluate  the subcontractor's activity. [🡺Note] |  |  |  |  |  |

## 6.3 Provision of equipment, services and supplies

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| 6.3.1 | The RMP shall have procedures in place for the selection of equipment, services and supplies that affect the quality of the RMs produced. |  |  |  |  |  |
| 6.3.2 | The RMP shall use only equipment, services and supplies that comply with specified requirements to ensure the quality of the RMs it produces. |  |  |  |  |  |
| 6.3.3 | The RMP shall ensure that equipment and consumable materials are not used until they have been inspected, calibrated or otherwise verified as complying with the specifications or requirements defined for the RM production activities. |  |  |  |  |  |
| 6.3.4 | The RMP shall maintain records of purchases of equipment, services and supplies, including records of the selection criteria used, confirmation of acceptance, and any commissioning data.  [🡺Note] |  |  |  |  |  |

## 6.4 Facilities and environmental conditions

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| 6.4.1 | The RMP shall ensure that all laboratory facilities, calibration and testing areas (if applicable), material handling, storage, processing and packaging areas, energy sources, lighting, humidity, temperature, pressure and ventilation are such as to facilitate proper material handling, storage, processing and packaging, as well as proper performance of calibration and testing activities (if applicable). |  |  |  |  |  |
| 6.4.2 | When the environmental conditions could have an adverse effect on the RM, the environmental conditions in which the RM production activities are undertaken shall be monitored with appropriately calibrated equipment, and shall be controlled and recorded, such that results and processes are not adversely affected. |  |  |  |  |  |
| 6.4.3 | All RM processing and calibration and testing areas, in addition to satisfying requirements for humidity and temperature, shall be protected, where appropriate, from other environmental factors such as incompatible activities, vibration, aerosols, airborne dust and microbiological contamination, magnetic fields, light and electromagnetic and/or ionising radiation. |  |  |  |  |  |
| 6.4.4 | Access to and use of areas shall be controlled as appropriate  to maintain the quality of the RMs. |  |  |  |  |  |

# 7 Technical and production requirements

## 7.1 General requirements

## 7.2 Production planning

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| 7.2.1 | The RMP shall identify and plan those processes that directly affect the quality of RM production, and the production plan  shall be documented. [🡺Note] |  |  |  |  |  |
| 7.2.2 | Technical input of subcontractors involved shall be specified and the required information documented and regularly reviewed. |  |  |  |  |  |
| 7.2.3 | The RMP shall address, during the planning stage, the following:   1. material selection (including, where appropriate, sampling); 2. verification of the identity of the material; 3. maintaining suitable environments for all aspects of production (see 6.4); 4. material processing (see 7.5); 5. choice of measurement procedures (see 7.6,); 6. validation of measurement procedures (see 7.6); 7. verification and calibration of measuring equipment (see 7.7); 8. specification of acceptance criteria for, and assessment of, homogeneity, including sampling (see 7.10); 9. specification of acceptance criteria for, and assessment and monitoring of, stability, including sampling (see 7.11); 10. designing and organizing appropriate characterization, including sampling (see 7.12); 11. assessing commutability (where appropriate);   [🡺Note]   1. assigning property values (see 7.13); 2. establishing uncertainty budgets and estimating uncertainties of certified value(s) (see 7.13); 3. defining acceptance criteria for measurand levels  and their uncertainties; 4. establishing metrological traceability of measurement result(s) and certified value(s) (see 7.9); 5. issuing RM documents (see 7.14); 6. ensuring adequate storage facilities and conditions  (see 7.4); 7. ensuring appropriate labelling and packaging of the RMs (see 7.14); 8. ensuring appropriate transport arrangements (see 7.15); 9. ensuring post-production stability monitoring, if applicable (see 7.11); 10. ensuring an adequate post-distribution service for RM users (see 7.15). |  |  |  |  |  |
| 7.2.4 | Where multiple batches of RMs with equivalent properties are produced by using similar starting materials and by applying the same procedures, verification shall ensure that information obtained from previous batches remains applicable for the new batch (see 7.2.3). [🡺Note 1 to 3] |  |  |  |  |  |

## 7.3 Production control

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|  | The RMP shall verify that the production plan has been implemented as specified, and deviations from the plan  shall be documented and approved. |  |  |  |  |  |

## 7.4 Material handling and storage

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| 7.4.1 | The RMP shall make arrangements to ensure the integrity of its candidate RMs and RMs throughout the production process. Precautions shall be taken against adverse environmental influences (see 6.4) and possible contamination of the candidate RM during its processing. [🡺Note] |  |  | |  |  |  |
| 7.4.2 | The RMP shall identify, preserve and separate candidate RMs and RMs from chemicals and other samples, from the time of processing through to their distribution to users. [🡺Note] |  | |  |  |  |  |
| 7.4.3 | The RMP shall ensure adequate packaging of all RMs (e.g. where appropriate, use light-shielding, air-free, moisture-free or inert-gas packaging) and provide secure storage areas/stock rooms which prevent damage or deterioration of any item or material between characterization and distribution. |  | |  |  |  |  |
| 7.4.4 | The condition of all RMs shall be assessed at appropriate intervals throughout the storage period, in order to detect possible deterioration. |  | |  |  |  |  |
| 7.4.5 | The RMP shall control packaging and labelling processes to the extent necessary to ensure conformity with safety and transport requirements. Procedures for transport to the customer shall be defined. |  | |  |  |  |  |
| 7.4.6 | The RMP shall take measures to ensure that the integrity of each individual RM unit is maintained until the seal, if any, has been broken or up to the point when first used. |  |  | |  |  |  |

## 7.5 Material processing

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| 7.5.1 | The RMP shall establish procedures to ensure that the material has undergone adequate processing for its intended use. Procedures for material processing shall address at least the following:   1. qualitative analysis for verification of material type and/or identity; 2. synthesis, purification (e.g. distillation, extraction), incubation, and transformation into the final form  (e.g. machining, grinding, blending, sieving and riffling, extrusion, melting); 3. homogenization; 4. proper handling (e.g. protection from contamination  and use of inert equipment) (see 7.4); 5. measurements for control of material processing  (e.g. particle size distribution, moisture content); 6. pre-treatment, cleaning or sterilization of processing equipment and sample containers; 7. stabilization of material (e.g. drying, irradiation, sterilization); 8. packaging (e.g. bottling, ampouling) of the material; 9. safety precautions. |  |  |  |  |  |
| 7.5.2 | Equipment used in material processing shall be operated in accordance with documented procedures. [🡺Note] |  |  |  |  |  |

## 7.6 Measurement procedures

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| To the test methods assessed the sheets for the on-site assessment have to be filled in. | | | |

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|  | The RMP shall ensure that the relevant requirements of  ISO/IEC 17025 are met with respect to calibration and testing. These activities shall, where appropriate, be consistent with the required accuracy of the property values of the RM, and with any standard specifications relevant to the measurement concerned. |  |  |  |  |  |

## 7.7 Measuring equipment

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|  | The RMP shall ensure that measuring equipment used in RM production is used in compliance with the relevant requirements of ISO/IEC 17025. [🡺Note] |  |  |  |  |  |

## 7.8 Data integrity and evaluation

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| 7.8.1 | The RMP shall ensure that all calculations and data transfers  are subject to appropriate checks. |  |  |  |  |  |
| 7.8.2 | The RMP shall ensure that:   1. computer software developed in-house or off-the-shelf software further developed for specific use is validated and shown to be adequate for use;   [🡺Note]   1. procedures are established and implemented for protecting the integrity of data; such procedures shall include, but are not limited to, integrity of data entry and capture, data storage, data transmission and data processing; 2. equipment and software are maintained to ensure proper functioning and are provided with the environmental and operating conditions necessary to maintain data integrity; 3. appropriate procedures are established and implemented for the maintenance of data security, including prevention of unauthorized access and changes to records, including computer records. |  |  |  |  |  |
| 7.8.3 | Statistical procedures used in monitoring, testing, calibration or value assignment of RMs shall be appropriate for their application. [🡺Note 1, 2] |  |  |  |  |  |

## 7.9 Metrological traceability of certified values

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| 7.9.1 | When producing CRMs, the metrological traceability of the certified values shall be established in compliance with the relevant requirements of ISO/IEC 17025. The RMP shall provide evidence of the metrological traceability of the certified value  to a stated reference. [🡺Note 1 to 4] |  | | |  |  |  | |  | |
| 7.9.2 | The stated reference shall be a definition of a measurement unit through its practical realization, or a measurement procedure including the measurement unit, or a measurement standard. |  | | |  |  |  | |  | |
| 7.9.3 | Where it is technically possible, the RMP shall demonstrate that the stated reference is traceable to the International System of Units (SI). | |  |  | |  | |  | |  |
| 7.9.4 | Where metrological traceability to the SI units is not technically possible, the RMP shall demonstrate metrological traceability to an appropriate reference (see traceability requirements in  ISO/IEC 17025). | |  |  | |  | |  | |  |
| 7.9.5 | For studies in which the values need to be traceable to a higher order reference system (e.g. characterization studies with measurements under reproducibility conditions), it shall be ensured that the measurements are calibrated with standards with metrologically traceable values. | |  |  | |  | |  | |  |
| 7.9.6 | Secondary parameters that have a significant influence on the certified value or its uncertainty shall have evidence of metrological traceability. [🡺Note] | |  |  | |  | |  | |  |

## 7.10 Assessment of homogeneity

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| 7.10.1 | The RMP shall carry out an assessment of the homogeneity of any candidate RM in its final packaged form to ensure its fitness for purpose. [🡺Note 1, 2] |  |  |  |  |  |
| 7.10.2 | When the material is produced in multiple batches, the equivalence of the batches shall be demonstrated or the homogeneity of each batch shall be evaluated separately. |  |  |  |  |  |
| 7.10.3 | Validated measurement procedures shall be selected so that  the precision and selectivity are fit for the purpose required. |  |  |  |  |  |
| 7.10.4 | Where homogeneity needs to be determined experimentally, the RMP shall determine the homogeneity for every property  of interest unless it can be shown, using scientific evidence or previous experience, that particular groups of properties are sufficiently closely associated that measurement of one property in such a group furnishes evidence of homogeneity for other properties in the same group. [🡺Note] |  |  |  |  |  |
| 7.10.5 | For certified values, homogeneity shall be quantified as an uncertainty contribution to the certified value or shall be shown to be a negligible contribution to the uncertainty of the certified value. |  |  |  |  |  |

## 7.11 Assessment and monitoring of stability

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| 7.11.1 | The RMP shall:   1. assess, by experimentation if necessary, the stability of all relevant properties of an RM under proposed storage conditions and choose pre-treatment, packaging and storage conditions in accordance with the results of the assessment; 2. assess, by experimentation if necessary, the stability of all relevant properties of an RM under proposed conditions  of transport, and choose transport conditions to maintain stability during transport; 3. establish any necessary advice on storage and use of the material to maintain stability at the user‘s premises; 4. select a scheme for monitoring the stability of materials held in long term storage that permits prompt detection of change, taking into account the possible rate of change; 5. where the stability of a certified value cannot be ensured, make due allowance in the stated uncertainty for possible change in the value prior to use or, where the change with time can be predicted, provide a means of correcting the certified value and its uncertainty for the expected change over time; 6. where repeated sampling from an RM unit or repeated  use of an entire RM unit is permitted by the instructions for use, assess the possible effects on the stability of the material and take appropriate action.   [🡺Note 1 to 3] |  |  |  |  |  |
| 7.11.2 | The RMP shall conduct an experimental assessment of stability before release unless the RMP has evidence of stability or prior experience of stability from closely similar materials held for an extended period under the same planned storage conditions.  [🡺Note] |  |  |  |  |  |
| 7.11.3 | Where an RM is produced in multiple batches that are not individually tested for stability, the RMP shall verify the stability of a sufficient number of different batches experimentally to provide confidence in the stability of all batches. [🡺Note 1, 2] |  |  |  |  |  |

## 7.12 Characterization

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| 7.12.1 | Where the RMP assigns property values, characterization of the RM is required. |  |  |  |  |  |
| 7.12.2 | The RMP shall clearly define whether a quantitative or a qualitative property will be characterized and, if quantitative, whether the measurand is operationally defined or is defined independently of any specific procedure. |  |  |  |  |  |
| 7.12.3 | The RMP shall select a characterization strategy appropriate  for the intended use of the RM. [🡺Note 1, 2] |  |  |  |  |  |
| 7.12.4 | The RMP shall specify the characterization study so that the properties of interest are each characterized with appropriate traceability and sufficient reliability whether or not traceability and measurement uncertainty are reported on the RM documentation. To this end, the RMP shall:   1. document a measurement plan that clearly describes the tasks to be performed and communicate this to all personnel responsible for measurements used in characterization; 2. for certified values, demonstrate the competence of each involved laboratory by using data from each laboratory that was not obtained on the material to be characterized. |  |  |  |  |  |
| 7.12.5 | When evaluating the characterization data, the RMP shall perform a technical evaluation of the data and documents involved in characterization to confirm adherence to the measurement plan as defined in 7.12.4, bullet a), and, in the case of deviations from the plan, assess whether the deviation necessitates exclusion of the data from characterization. |  |  |  |  |  |

## 7.13 Assignment of property values and their uncertainties

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| 7.13.1 | The RMP shall use documented procedures for the assignment of property values. |  | |  |  | |  |  |
| 7.13.2 | These procedures shall include, as appropriate:   1. details of the experimental designs and statistical techniques used; 2. policies on treatment and investigation of anomalous results, including outliers; 3. whether weighting techniques are used for contributions to assigned property values derived from different procedures or laboratories with different measurement uncertainties; 4. the approach used to assign uncertainties to the property values; 5. any other significant factors that may affect the assignment of property values. |  |  | |  |  | |  |
| 7.13.3 | The RMP shall take due account of technical information on test methods and equipment, including reported uncertainty information, and of any evidence of laboratory performance when assigning the property values of interest. [🡺Note] |  |  | |  |  | |  |
| 7.13.4 | Outliers shall not be excluded solely on statistical evidence until they have been investigated and, where possible, the reasons for the discrepancies identified. Robust statistical methods may be applied where appropriate. [🡺Note 1, 2] |  |  | |  |  | |  |
| 7.13.5 | For certified values, the RMP shall identify the uncertainty contributions to be included in the assigned uncertainty.  [🡺Note] |  |  | |  |  | |  |
| 7.13.6 | For certified values, the RMP shall consider, at a minimum, uncertainty contributions of each of the following:   1. characterization, including any difference between multiple procedures used for characterization; 2. between-unit and within-unit inhomogeneity; 3. changes of property values during storage; 4. changes of property values during transport.   [🡺Note 1, 2] |  | |  |  | |  |  |

## 7.14 RM documents and labels

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| 7.14.1 | The RMP shall issue and make available an RM certificate  for CRMs and product information sheet for other RMs. |  |  |  | |  |  |
| 7.14.2 | The contents of RM certificates and product information sheets shall include the following:   1. title of the document; 2. unique identifier of the RM; 3. the name of the RM; 4. name and contact details of the RMP; 5. intended use; 6. minimum sample size (whenever applicable); 7. period of validity; 8. storage information; 9. instructions for handling and use that are sufficient  to ensure the integrity of the material; 10. page number and the total number of pages; 11. document version; 12. information on commutability of the material where appropriate). |  |  |  | |  |  |
| 7.14.3 | In addition to the minimum requirements given in 7.14.2, RM certificates shall contain the following additional information:   1. description of the CRM; 2. property of interest, property value and associated uncertainty; 3. measurement procedure for operationally defined measurands; 4. metrological traceability of the certified values; 5. name and function of RMP's approving officer.   🡺Note 1, 2] |  |  |  |  | |  |
| 7.14.4 | The RM label shall be securely attached to the product container of an individual RM unit, and shall be designed to remain legible and intact under the defined storage and handling conditions within the lifetime of the RM, i.e. the period during which the RM is available from the RMP extended by the period of validity of its certificate.  The label shall identify the material, the RMP, its batch, and any other information necessary to enable the material to be uniquely distinguished and referenced (such as the individual sample number), where appropriate, to its product information sheet or RM certificate. |  |  |  |  | |  |
| 7.14.5 | Where the physical size of the RM unit limits the amount of information that can be contained on the label, the information shall be included elsewhere (e.g. in an RM document). A unique identifier shall be given [see 7.14.2, bullet b)]. [🡺Note] |  |  |  |  | |  |

## 7.15 Distribution service

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| 7.15.1 | The distribution process shall be specified including precautions needed to avoid deterioration of the RM (see 7.11.1). The RMP shall determine the conditions of shipment and ensure that appropriate documentation is provided to allow customs clearance. [🡺Note 1, 2] |  |  |  | |  |  |
| 7.15.2 | The RMP shall maintain up-to-date records of all RM sales and distribution. |  |  |  |  | |  |
| 7.15.3 | The RMP shall offer to users reasonable guidance and technical support related to the RMs it produces. |  |  |  |  | |  |
| 7.15.4 | The RMP shall employ best efforts to notify users of any change to the property value or uncertainty for any RM within the validity period of the RM certificate or product information sheet. |  |  |  |  | |  |
| 7.15.5 | Where RMs are subject to resale through a distributor with whom the RMP has a contractual relationship, the RMP shall pass on to the authorized distributor all necessary information to ensure that an effective post-distribution service is maintained and make arrangements with the distributor to ensure that its activities are executed in accordance with the relevant clauses of this International Standard. [🡺Note] |  |  |  |  | |  |

## 7.16 Control of quality and technical records

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| 7.16.1 | The RMP shall establish and maintain procedures for identification, collection, indexing, access, storage, maintenance and disposal of quality and technical records. [🡺Note 1, 2] |  |  |  |  |  |
| 7.16.2 | The RMP shall ensure that it has recorded such information  that might be needed in a future dispute situation. |  |  |  |  |  |
| 7.16.3 | All records shall be legible and shall be stored and retained  in such a way that they are readily retrievable and in facilities that provide a suitable environment to prevent damage, deterioration or loss. Retention time of records shall be established in accordance with customer or other relevant requirements, and shall be documented. [🡺Note] |  |  |  |  |  |
| 7.16.4 | When mistakes occur in records, each mistake shall be crossed out, not erased, made illegible or deleted, and the correct information entered alongside. All such alterations to records shall be signed or initialled, and dated by the person making  the correction. In the case of records stored electronically, equivalent measures shall be taken to avoid the loss or change of original information. |  |  |  |  |  |
| 7.16.5 | All records shall be held securely and, where appropriate, in confidence. |  |  |  |  |  |
| 7.16.6 | The RMP shall have procedures to protect electronically held data at all times and to prevent unauthorized access to, or amendment of, such data. |  |  |  |  |  |
| 7.16.7 | The RMP shall arrange for all individual measurement observations, appropriate calculations and derived data  (e.g. statistical treatments and uncertainty budgets), calibration records and preparation reports to be retained for a defined period beyond which it is no longer probable that they will be referred to, taking into account the period for which the RM remains valid. |  |  |  |  |  |
| 7.16.8 | The results of each calibration or measurement (or series of either) carried out by the RMP or by a subcontractor shall be reported in accordance with ISO/IEC 17025. |  |  |  |  |  |

## 7.17 Management of non-conforming work

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| 7.17.1 | The RMP shall have procedures that shall be implemented  when it establishes that any aspect of its production activities does not conform to its own specified production procedures  or the agreed requirements of the customer. |  |  |  |  |  |
| 7.17.2 | The procedures shall ensure that:   1. responsibilities and authorities for the management  of non-conforming work are designated; 2. the actions to be taken when any non-conforming work and/or RMs are identified including root-cause analysis  and a system that ensures that they are effectively implemented; 3. an evaluation of the significance of the non-conforming work is made and identification and implementation of correction and corrective action; 4. where necessary, work is halted and, if appropriate, issue of the affected RM and its certificates and other appropriate documentation is withheld; 5. remedial actions such as customer notifications are taken within a defined time-frame; 6. where necessary, best efforts are employed to notify the users of the possible effects, within an appropriate period and, where necessary, non-conforming RMs and/or their certificates and other appropriate documentation already distributed, are recalled; 7. the responsibility for authorization of the resumption  of work is defined; 8. where necessary, an internal audit is conducted to verify the closure and effectiveness of the corrective actions taken. |  |  |  |  |  |
| 7.17.3 | The decision on recall of RMs shall be taken in a timely manner to limit the use of non-conforming RMs. [🡺Note] |  |  |  |  |  |

## 7.18 Complaints

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| 7.18.1 | The RMP shall have a documented process to receive, evaluate and make decisions on complaints. |  |  |  |  |  |
| 7.18.2 | A description of the handling process for complaints shall be available to any interested party on request. |  |  |  |  |  |
| 7.18.3 | Upon receipt of a complaint, the RMP shall confirm whether the complaint relates to conformity assessment activities that it is responsible for and, if so, shall deal with it. |  |  |  |  |  |
| 7.18.4 | The RMP shall be responsible for all decisions at all levels of the handling process for complaints. |  |  |  |  |  |
| 7.18.5 | Investigation and decision on complaints shall not result in any discriminatory actions. |  |  |  |  |  |
| 7.18.6 | The process for handling complaints shall include at least the following elements and methods:   1. a description of the process for receiving, validating, investigating the complaint, and deciding what actions  are to be taken in response to it; 2. tracking and recording complaints, including actions undertaken to resolve them; 3. ensuring that any appropriate action is taken. |  |  |  |  |  |
| 7.18.7 | The RMP receiving the complaint shall be responsible for gathering and verifying all necessary information to validate  the complaint. |  |  |  |  |  |
| 7.18.8 | Whenever possible, the RMP shall acknowledge receipt of the complaint, and provide the complainant with progress reports and the outcome. |  |  |  |  |  |
| 7.18.9 | The decision to be communicated to the complainant shall be made by, or reviewed and approved by, individual(s) not involved in the original RM activities in question. |  |  |  |  |  |
| 7.18.10 | Whenever possible, the RMP shall give formal notice of the end of the complaint handling process to the complainant. |  |  |  |  |  |

# 8 Management system requirements

## 8.1 Options

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|  | | | **SA** |  |  |  |  | |  |
|  |  | Option A | General management system requirements (according to 8.2 up to 8.11 | | | | | | |
|  |  | Option B | Management system requirements in accordance with ISO 9001 (according 8.2 up to 8.11)  ***Note:*** *In the case* *that option B was chosen, the assessors have to assess and to review the implementation of the requirements according to clauses 8.2 to 8.11.* | | | | | | |
| **Result of review of documents and records:** | | | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
|  | | | |
| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
| No. | OE | Title / Description | Date / Version |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| **8.1.1** | **General**  The RMP shall establish and maintain a management system that is capable of achieving the consistent fulfilment of the requirements of this International Standard in accordance with either Option A or Option B. |  |  |  |  |  |
| **8.1.2** | **Option A** |  |  |  |  |  |
| 8.1.2.1 | The RMP shall establish, implement and maintain a documented management system that addresses the scope of its RM production activities, which covers the type, range and scale of the RM production it undertakes. |  |  |  |  |  |
| 8.1.2.2 | The RMP shall define and document its scope of activities. |  |  |  |  |  |
| 8.1.2.3 | The management system of the RMP shall address the following:   * quality policy (see 8.2); * general management system documentation (see 8.3); * control of management system documents (see 8.4); * control of records (see 8.5); * management review (see 8.6); * internal audit (see 8.7); * actions to address risks and opportunities (see 8.8); * corrective actions (see 8.9); * improvement (see 8.10) ; * feedback from customers (see 8.11). |  |  |  |  |  |
| **8.1.3** | **Option B**  An RMP that has established and maintains a management system, in accordance with the requirements of ISO 9001, and that is capable of supporting and demonstrating the consistent fulfilment of the requirements of Clauses 4 to 7 of this International Standard (ISO 17034), fulfils the management system clause requirements in 8.2 to 8.11. |  |  |  |  |  |

## 8.2 Quality policy (Option A)

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|  | **SA** |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.2.1 | The RMP shall define and document its policy, objectives and commitment to ensure and maintain the quality of all aspects  of RM production, storage and distribution procedures. |  |  |  |  |  |
| 8.2.2 | The RMP's management system policies related to quality, including a quality policy statement, shall be documented under the authority of the top management. |  |  |  |  |  |
| 8.2.3 | The quality policy shall include the following commitments:   1. to produce RMs which conform to the requirements  of this International Standard; 2. to conduct all testing and calibration in support of the production of RMs in compliance with the requirements  of ISO/IEC 17025; 3. to require that all personnel concerned with the quality  of any aspect of RM production activities familiarize themselves with the quality documentation and implement the policies and procedures in their work; 4. for the management to continually improve the effectiveness of the management system and to be committed to good professional practice and to the quality of its RMs. |  |  |  |  |  |
| 8.2.4 | The overall objectives shall be reviewed during the management review. |  |  |  |  |  |

## 8.3 General management system documentation (Option A)

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|  | **SA** |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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|  | The RMP shall document all of its systems, programmes, procedures, instructions, findings, etc., to the extent necessary to enable the RMP to ensure the quality of the RMs produced. Documentation used in this management system shall be communicated to, understood by, available to and implemented by all personnel concerned. |  |  |  |  |  |

## 8.4 Control of management system documents (Option A)

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|  | **SA** |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.4.1 | The RMP shall control the documents (internal and external) that relate to the fulfilment of this International Standard. |  |  |  |  |  |
| 8.4.2 | The RMP shall ensure that:   1. documents are approved for adequacy prior to issue  by authorized personnel; 2. documents are periodically reviewed and updated  (as necessary); 3. changes and the current revision status of documents  are identified; 4. relevant versions of applicable documents are available  at points of use; 5. documents are uniquely identified and where necessary their distribution controlled; 6. the unintended use of obsolete documents is prevented, and suitable identification applied to them if they are retained for any purpose.   [🡺Note 1, 2] |  |  |  |  |  |

## 8.5 Control of records (Option A)

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|  | **SA + TA** |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.5.1 | The RMP shall establish procedures to define the controls needed for the identification, storage, protection, retrieval, retention time and disposition of its records related to the fulfilment of this International Standard. |  |  |  |  |  |
| 8.5.2 | The RMP shall establish procedures for retaining records for  a period consistent with its contractual and legal obligations. Access to these records shall be consistent with the confidentiality arrangements. |  |  |  |  |  |

## 8.6 Management review (Option A)

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|  | **SA** (If no SA used: LA) |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.6.1 | In accordance with a predetermined schedule and procedure, the RMP's top management shall periodically conduct a review of its management system and production processes to ensure their continuing suitability and effectiveness and to introduce any necessary changes or improvements. The review shall take account of, but not be limited to:   1. the suitability of policies and procedures; 2. reports from managerial and supervisory personnel; 3. the outcome of internal audits; 4. corrective actions; 5. result of risk identification; 6. assessments by external bodies; 7. changes in scale and type of work; 8. feedback from customers; 9. recommendations for improvement including complaints; 10. other relevant factors such as resources, staff training  and, where required, technical issues relating to the competence of the subcontractor and distributor of the RMs; 11. the quality objectives (see 8.2).   [🡺Note 1, 2] |  |  |  |  |  |
| 8.6.2 | Findings from management reviews and the actions that arise from them shall be recorded. The management shall ensure that these actions are discharged within an appropriate and agreed timescale. |  |  |  |  |  |

## 8.7 Internal audit (Option A)

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|  | **SA** (If no SA used: LA) |  |  |  |  | |  |
| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.7.1 | The RMP shall, periodically and in accordance with a predetermined schedule and procedure, conduct internal audits of its activities to verify that its operations continue to comply with the requirements of the management system and the requirements of this International Standard. The internal audit programme shall address all elements of the management system, including the technical and production activities leading to the finished product (RM). It is the responsibility of the RMP to plan and organize audits as required by the schedule and requested by management. Such audits shall be carried out by trained and qualified personnel who are, wherever resources permit, independent of the activity to be audited. Personnel shall not audit their own activities. |  |  |  |  |  |
| 8.7.2 | When audit findings cast doubt on the effectiveness of the operations, or on the integrity of the RMs, or on the correctness of their documentation, the RMP shall take timely corrective actions and shall notify, in writing, its customers whose activities may have been adversely affected. |  |  |  |  |  |
| 8.7.3 | All audit findings and corrective actions that arise from them shall be recorded. The RMP's management shall ensure that these actions are discharged within an appropriate and agreed timescale. |  |  |  |  |  |
| 8.7.4 | Follow-up activities shall verify and record the implementation and effectiveness of the corrective actions taken. |  |  |  |  |  |

## 8.8 Actions to address risks and opportunities (Option A)

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| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.8.1 | The RMP shall consider the risks and opportunities to:   1. give assurance that the management system can achieve its intended result(s); 2. enhance desirable effects; 3. prevent, or reduce, undesired effects; 4. achieve improvement. |  |  |  |  |  |
| 8.8.2 | The organization shall take actions to:   1. address these risks and opportunities; 2. integrate and implement the actions into  its management system processes; 3. evaluate the effectiveness of these actions. |  |  |  |  |  |
| 8.8.3 | Actions taken to address risks and opportunities shall be proportionate to the potential impact on the quality of the RM production and service. [🡺Note 1, 2] |  |  |  |  |  |

## 8.9 Corrective actions (Option A)

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| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| **8.9.1** | **General**  The RMP shall establish a policy and procedure(s) and shall designate appropriate authorities for implementing corrective actions when non-conforming RMs, non-conforming work on the production of RMs, or departures from the policies and procedures in the management system have been identified.  [🡺Note] |  |  |  |  |  |
| **8.9.2** | **Cause analysis**  Corrective action procedures shall start with an investigation to identify the root causes of the problem. The investigation shall be conducted for both in-house production and, where required, any work performed by subcontractors. [🡺Note] |  |  |  |  |  |
| **8.9.3** | **Selection and implementation of corrective actions** |  |  |  |  |  |
| 8.9.3.1 | Where corrective actions are needed, the RMP shall identify potential corrective actions. It shall select and implement the action(s) most likely to eliminate the problem and to prevent recurrence. |  |  |  |  |  |
| 8.9.3.2 | Any corrective action taken to eliminate the causes of non-conformities or other departures shall be appropriate to the magnitude of the problem and commensurate with the risks encountered. |  |  |  |  |  |
| 8.9.3.3 | The RMP shall document and implement any required changes to the operational procedures resulting from corrective action investigations. |  |  |  |  |  |
| **8.9.4** | **Monitoring of corrective actions**  After having implemented the corrective actions, the RMP shall monitor the results to ensure that the corrective actions taken have been effective in eliminating the root causes of the problems. |  |  |  |  |  |
| **8.9.5** | **Additional audits**  Where the identification of non-conformities or departures  casts doubt on the RMP's compliance with its own policies and procedures, or on its compliance with this International Standard, the RMP shall ensure that the appropriate areas of activity are audited in accordance with 7.17, as soon as possible. |  |  |  |  |  |

## 8.10 Improvement (Option A)

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| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| 8.10.1 | The RMP shall continually improve the effectiveness of its management system through the use of the quality policy, quality objectives, audit results, analysis of data, corrective  and preventive actions and management review. |  |  |  |  |  |
| 8.10.2 | Required improvements and potential sources of non-conformities, either technical or concerning the management system, shall be identified. When improvement opportunities are identified or if improvement is required, action plans shall be developed, implemented and monitored to reduce the likelihood of the occurrence of such non-conformities and to take advantage of the opportunities for improvement. |  |  |  |  |  |
| 8.10.3 | After the implementation of the improvement, the RMP shall monitor the results to establish any reduction in deficiencies  or other improvements in this operational area, thereby establishing the effectiveness of the preventive action. |  |  |  |  |  |

## 8.11 Feedback from customers (Option A)

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| **Result of review of documents and records:** | | |  |  |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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|  | The RMP shall seek feedback, both positive and negative, from its customers. The feedback shall be used and analysed to improve the management system, RM production activities and customer service. |  |  |  |  |  |

# Further aspects of the assessment

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| --- | --- | --- |
| Accreditation with flexible scope | Applies | Does not apply |
| Compliance with EA 2/15 and R-17034 • Basic competence of personnel • Procedure for adding reference materials within the flexible scope • Reference materials added since the last assessment • Publicly available up-to-date list of reference materials offered • Methods for characterizing for newly introduced reference materials • Recommendation for maintaining, extending or restricting flexibilization. | | |

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| **Additional requirements** | **Responsible** | **Reference documents** | | **Appraisal** | | | | **No. of** |
|  |  | | **for the implementation** | **1** | **2** | **3** | | **NC** |
| * **Use of the accreditation symbol / References to the accreditation** | **SA** (If no SA used: LA) | |  |  |  |  | |  |
| Compliance to the rule 71 SD 0 011 on the use of the accreditation symbol in RM-reports and RM-certificates, business letters, offers, letterhead, website, other documents and advertising media as well as other references to accreditation **(Not applicable for the assessment for initial accreditation)** | |  | |
| **Result of review of documents and records:** | | | |  |  | |  |  | |

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| Findings / justification of findings / specifics / notes: | | | |
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| **Objective evidence / Reviewed documents (OE/RD) during the assessment:** | | | |
| No. | OE | Title / Description | Date / Version |
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| **Result of assessment:** Findings / justification of findings / sectorspecific provisions / notes: | | | |
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| * Fulfilment of imposed conditions and implementation of the corrective actions from the previous assessment | | | **SA + TA** |  |
| Yes | No | Not applicable | | |

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| Remarks: |  |

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| **The specific requirements of the applicable rules of ILAC and EA were considered during the assessment.** |

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| **Preliminary assessment of documents and records completed on:** |  |

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| **No. of non-conformities:** | Non critical: |  | Critical: |  |

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| **Reductions of the scope of accreditation (indication of production areas):** |

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| **Summary, remarks and improvement potential** |
| Existing accreditations, certifications, notifications, approvals and recognitions • production RM or ZRM • appropriateness  of personnel, equipment and facilities • appropriateness of production planning and production • method of characterization and estimation of measurement uncertainty • overall impression with respect to RMP’s strengths and areas requiring improvement  to appraise the appropriateness and effectiveness of the quality system including improvement potential • final evaluation •  key aspects/considerations for the following assessment, if applicable |

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| **Recommendation on accreditation:**[[6]](#endnote-6)), [[7]](#endnote-7)) | | | **Yes** | **No** | |
| Place: |  | Date: |  | Signed *Assessor Name:* | [[8]](#endnote-8) |

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| **Report reviewed by the case manager:** | | |  | | |
| Place: |  | Date: |  | Signed *Case manager:* |  |

Note: The assessor does not confirm the complete correctness of the reference documents of the conformity assessment body.

\* Grading of fulfillment of the requirements of a section of the standard to be entered by the assessor:

1 **No** non-conformity

2 **Non critical** non-conformity

3 **Critical** non-conformity

\*\* NC = Non-conformity

1. Under assessment type, the assessment technique is to be indicated, whereby several assessment types can be used in the context of an assessment. Please select the applicable element or combination of elements from the following options to indicate the type of assessment:

   On-site assessment / Remote assessment / Witness audit (on-site) / Witness audit (remote) / Witness examination / Document review / Other assessment activity (please specify if necessary) [↑](#endnote-ref-1)
2. Status in the assessment team:   
   LA=Lead Assessor; SA=System Assessor; TA=Technical Assessor; TA stat =Technical Assessor for Statistics; O=Observer [↑](#endnote-ref-2)
3. Only if the review of documents and records reveals that an assessment cannot be performed, the assessor prepares   
   a separate partial assessment report/checklist for the review of documents and records according to this form. [↑](#endnote-ref-3)
4. As an alternative to entering the OE/RD here, the separate form provided for this purpose can be used. [↑](#endnote-ref-4)
5. “Objective evidence” is to be distinguished from „Reviewed documents“ by marking with a cross „x“. [↑](#endnote-ref-5)
6. During the closing meeting, the laboratory was informed about the preliminary result of the assessment, non-conformity reports were handed over, if applicable. [↑](#endnote-ref-6)
7. Subject to a sufficient correction of non-conformities [↑](#endnote-ref-7)
8. This report was prepared personally by on . [↑](#endnote-ref-8)