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The standardization and certification procedures of cryogenic equipment in Kazakhstan

Creation of the Common Economic Space and functioning within the framework of EurAsEC of industrial enterprises requires forming a common base of normative documents to the Member States. Considering the whole increasing role of the cryogenic technologies in the industrial development of the world's leading powers, it is necessary to carry out the appropriate set of activities of normative ensuring this occupation.

Key words: cryogenic equipment, regulations, standards.

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Процедура стандартизации и сертификации криогенного оборудования в Казахстане

Создание Единого экономического пространства и функционирования в рамках ЕврАзЭС промышленных предприятий требует формирования общей базы нормативных документов в государствах-членах Союза. Учитывая всю возрастающую роль криогенных технологий в промышленном развитии ведущих мировых держав, необходимо провести соответствующий набор мероприятий, нормативно обеспечивающих это занятие.

Ключевые слова: криогенное оборудование, нормативные документы, стандарт.

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Қазақстандағы криогенді құрылғыларды стандарттау және сертификаттау рәсімдері

Бірыңғай экономикалық кеңістіктің құрылуымен және ЕврАзЭС жиектері бойынша өндірістерде іске асыру үшін ортақ нормативтік құжаттар базасы жасалуы керек. Криогенді технологиялардың өндірісте дамуына сәйкес, қажетті сәйкесінше шаралар ұйымдастырылып, оған қажетті нормативті тәртіптерді орындау қажет.

Түйін сөздер: криогенді құрылғылар, нормативті құжаттар, стандарт.

Creation of the Common Economic Space and functioning within the framework of EurAsEC of industrial enterprises requires forming a common base of normative documents to the Member States. Considering the whole increasing role of the cryogenic technologies in the industrial development of the world's leading powers, it is necessary to carry out the appropriate set of activities of normative ensuring this occupation. Kazakhstan is an active participant in the creating of this normative base, being the members of the Technical Committee TC-114 – Oxygen and

cryogenic equipment. In this work is reported the main peculiarities of the implementation tasks assigned by the Technical Committee. Cryogenic equipment is manufactured in the laboratory of cryophysics and cryotechnologies of al-Farabi Kazakh National University subjected to obligatory procedures of standardization and certification.

Procedure of certification represents in written confirmation of compliance of the equipment by authorized body to the requirements established in normative documents (Gosstandart) and consists of the following actions:

1. Application by the applicant in certification authority.

2. Direction to the applicant of the decision on results of consideration of the declaration form. This decision goes to the applicant to 2-week time.

3. Registration of the contract between the applicant and certification authority on work on certification of the equipment. The issued contract goes to the applicant to 2-week time in duplicate.

4. Carrying out selection, identification of samples of the declared equipment and their representation in test laboratory (center). Selection is made by certification authority on a contractual basis. Selection can be made and the applicant by appointment of the competent commission as a part of not less than 3 people from among representatives of the uninterested organizations

5. In necessary cases the body for certification can charge sampling of the accredited test commission.

6. The test laboratory (center) carries out to the terms of test of samples of the declared equipment coordinated with certification authority and sends its results issued in the form of the protocol to body for certification.

7. The analysis of the received results and making decision on possibility of issue of the certificate of conformity.

8. At negative results of test, at least on one of indicators, test for the purpose of certification stop.

Issue of the certificate of conformity and its registration in the State register of GSS of the Republic of Kazakhstan. At positive results of the performed works as the provided scheme of the declared equipment, the certification authority makes out the Certificate of conformity.

References

- 1 The law of the Republic of Kazakhstan of 16.07.1999 No. 434-1 «About certification».
- 2 Technical regulations of the Republic of Kazakhstan «Compliance confirmation procedure».
- 3 Standard of the Republic of Kazakhstan 1.5-2008 «General requirements to construction, statement, registration and contents of standards».