



**International
Standard**

ISO 13465

**Nuclear energy — Nuclear fuel
technology — Determination of
neptunium in nitric acid solutions
by spectrophotometry**

*Énergie nucléaire — Technologie du combustible nucléaire —
Détermination du neptunium dans les solutions d'acide nitrique
par spectrophotométrie*

**Third edition
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 85, *Nuclear energy, nuclear technologies, and radiological protection*, Subcommittee SC 5, *Nuclear installations, processes and technologies*.

This third edition cancels and replaces the second edition (ISO 13465:2009), which has been technically revised.

The main changes are as follows:

- [Clause 3](#) and [5.3](#) added;
- [9.2](#) and [9.3](#) updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document presents an analytical method for determining the neptunium concentration in nitric acid solutions after the dissolution of nuclear reactor irradiated fuels. The method is devoted to process controls at the different steps of the process in a nuclear fuel reprocessing plant.

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