

First edition
2011-07-01

AMENDMENT 1
2022-12

**Nuclear criticality safety — Critical
values for homogeneous plutonium-
uranium oxide fuel mixtures outside
of reactors**

**AMENDMENT 1: Corrections and
clarifications**

*Sûreté-criticité — Valeurs critiques pour oxydes mixtes homogènes de
plutonium et d'uranium hors réacteurs*

AMENDEMENT 1: Corrections et clarifications



Reference number
ISO 11311:2011/Amd.1:2022(E)

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Published in Switzerland

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AMENDMENT 1: Corrections and clarifications

4.1.3, NOTE

Replace the text with the following:

"The latter density is the theoretical dry density for MOX with this specific mass fraction of Pu and with the P0 isotopic composition specified in 4.1.4.3 c). The theoretical dry density is slightly higher for the P5 and P20 isotopic compositions but with a difference lower than 0,01 g/cm³."

4.1.4.3 e)

Replace the last formula with the following:

$$\begin{aligned}\frac{m_{239\text{Pu}}}{m_{\text{Pu,total}}} &= 1 - \frac{m_{240\text{Pu}}}{m_{\text{Pu,total}}} - \frac{m_{241\text{Pu}}}{m_{\text{Pu,total}}} - \frac{m_{242\text{Pu}}}{m_{\text{Pu,total}}} \\ &= 1 - \frac{m_{240\text{Pu}}}{m_{\text{Pu,total}}} \times (1 + R_1 + R_1 \times R_2)\end{aligned}$$

5.1, NOTE 2

Replace the text with the following:

"The results from References [1] to [7] show that the critical values for MOX with depleted uranium are not notably higher than the critical values in Annexes C to F for MOX with natural uranium."

Annex A, table header

Replace the header with the following:

Mass fraction of plutonium ^a	MOX density	Isotopic composition of uranium ^b		Plutonium composition designation	Isotopic composition of plutonium ^c			
					mass fraction %		mass ratio	
		235U	238U		239Pu	240Pu	241Pu / 240Pu	242Pu / 241Pu
w_{Pu}								
%	g/cm ³							

Annex A, footnote d

Replace the text with the following:

“The sum of the mass fractions of ²³⁹Pu, ²⁴⁰Pu, ²⁴¹Pu and ²⁴²Pu equals 100 % [(See 4.1.4.3 c)].”