

Background Air Concentrations

Parameter ^a	Number of Samples ^b (Measurements) ^b	Minimum ^c	Maximum ^c	Average ^c
²⁴¹ Am	12 (12)	0	3.3 x 10 ⁻⁰⁵	
Fluoride	52 (7)	2.4 x 10 ⁻⁰²	1.1 x 10 ⁻⁰¹	5.1 x 10 ⁻⁰²
²³⁷ Np	12 (12)	0	1.3 x 10 ⁻⁰⁵	
²³⁸ Pu	12 (12)	0	1.4 x 10 ⁻⁰⁵	
^{239/240} Pu	12 (12)	0	3.8 x 10 ⁻⁰⁶	
⁹⁹ Tc	12 (12)	0	4.1 x 10 ⁻⁰³	
Uranium	12 (0)	4.0 x 10 ⁻⁰⁴	8.2 x 10 ⁻⁰⁴	6.3 x 10 ⁻⁰⁴
^{233/234} U	12 (0)	1.2 x 10 ⁻⁰⁴	1.2 x 10 ⁻⁰³	3.1 x 10 ⁻⁰⁴
²³⁵ U	12 (8)	9.5 x 10 ⁻⁰⁹	6.6 x 10 ⁻⁰⁵	
²³⁶ U	12 (10)	0	1.2 x 10 ⁻⁰⁵	
²³⁸ U	12 (0)	1.3 x 10 ⁻⁰⁴	2.8 x 10 ⁻⁰⁴	2.1 x 10 ⁻⁰⁴

^a All parameters are measured in pCi/m³ with the exception of uranium and fluoride, which are measured in µg/m³.
^b Radiological samples are analyzed monthly, samples for fluoride are analyzed weekly. Number in parentheses is the number of samples that were below the detection limit.
^c For radionuclides, averages are not calculated for locations that had greater than 15 percent of the results below the detection limit. If the analytical result for a sample was below the detection limit, the ambient air concentration was calculated based on the detection limit for the sample. Averages were calculated for fluoride at all sampling locations.
 Source: DOE 2003a.

U.S. NUCLEAR REGULATORY COMMISSION
 In the Matter of USEC, Inc.
 Docket No. 70-7004-MC Official Exhibit No. Staff 45
 OFFERED by: Applicant/Licensee Intervenor _____
 NRC Staff _____ Other _____
 IDENTIFIED on 5/13/07 Witness/Panel _____
 Action Taken: ADMITTED REJECTED WITHDRAWN
 Reporter/Clerk [Signature]

TEMPLATE = SECY-027

SECY-02

**DOCKETED
USNRC**

March 27, 2007 (11:30am)

**OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF**

Docket No. 70-7004-ML