



21.9.1995

149/342/95

Nunnanlahden Uuni Oy
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83940 NUNNANLAHTI

RADIOACTIVITY MEASUREMENT OF BUILDING MATERIAL

Sample: Soapstone (fine grained powder). Nunnanlahden Uuni Oy has delivered the sample to the Finnish Centre for Radiation and Nuclear Safety (STUK).

1. GENERAL

The gammaspectrometric measurement was performed using high purity germanium detector (HPGe) placed in a low background shield. The measurement was performed by the Research Department in STUK.

Safety requirements to radiation exposure for building materials are presented in ST-guide 12.2 'Radioactivity of Construction Materials, Fuel Peat and Peat Ash' issued by the Finnish Centre for Radiation and Nuclear Safety under section 70 of the Radiation Act (592/91).

Activity indexes are used to assess whether or not the safety requirements are being met. The activity index is calculated on the basis of the activity concentrations of radium (^{226}Ra) in the uranium decay series, thorium (^{232}Th) in the thorium decay series and potassium (^{40}K).

2. RESULTS

The measured activity concentrations are given in appendix. The value of the activity index I_1 (building materials), calculated on basis of the measured concentrations, is less than 0.05.

3. REQUIREMENTS

The value of the activity index I_1 is far less than 1. The material can be used, so far as the radioactivity is concerned, without restriction.

Physicist




Mika Markkanen

21.9.1995

Mika Markkanen
Säteilyturvallisuusosasto

Tilaus: Nunnanlahden Uuni Oy

MITTAUSPÖYTÄKIRJA

GAMMA-AKTIIVISUUSMÄÄRITYS

Näytetunnus	Ra-226 Bq/kg	Th-232 Bq/kg	K-40 Bq/kg
Vuolukivi	9	2	< 20

Erikoistutkija



Hannu Arvela

