



18/06/2024

## **KENT COUNTY COUNCILS RADON MONITORING PROCEDURAL ARRANGEMENTS**

KCC Infrastructure team have appointed Skanska to provide a service through their supply chain and provide all necessary measures to monitor and check for **RADON** Gasses throughout Schools and our corporate building stock.

Since radon is invisible and has no odour or taste, testing for this is the only way **RADON** can be identified.

Since we are committed to the continued health and safety of our staff and pupils and tenants, we are conducting this testing as a precautionary measure.

To ensure the very success of this testing, it will last for a minimum of 12 weeks and during this period the following stages will be applicable:

## Sequence of events below:

**Stage 1:** Kent County Council (KCC) logged enquiry to UK Radon and request of the levels of Radon in the County of Kent.

**Stage 2:** Map received from UK Radon, overlaid the map with the properties which KCC are responsible for.

**Stage 3:** Based on the information from the overlaid map KCC prioritised Radon levels in low, medium, or high levels of risk and RAG rated each site.

**Stage 4:** KCC commissioned their FM provider (Skanska) to undertake Radon monitoring starting with high-risk areas taking priority KCC's appointed John Anderson as the project lead working with Skanska. KCC and Skanska issued a letter to all high-risk sites stating monitoring will be undertaken, the letter stated of pending detector placements and the length of the monitoring.

**Stage 5:** High risk site identified, KCC commissioned Skanska to order Detector order placed with UKHSA and an installation date is shared so the units can be dispatched to meet the 12-week site placement period. Tracker updated with installation dates, this is shared with KCC Health and Safety at the beginning of each month.

**Stage 6:** Skanska approved contractors to fit detectors on site and note locations which are relayed to UKHSA to follow processes. This is added to the tracker for updates.

**Stage 7:** Following a 12-week placement, units are collected and packaged and sent to UKHSA for analysis.

**Stage 8:** Where a building is located in an area with less than **1%** probability of Radon being present according to the HRA UK Radon Map, **NO** Radon Risk Assessment or further action will be required. However, any building located in areas shown to be **1% or above**, will require KCC to carry out monitoring and produce a Radon risk assessment for that building. Results of the monitoring will inform if any further action is required.

If Radon measurements are found to be below **300 Bq/m<sup>3</sup>** then no further action is likely to be necessary apart from recording the results within the risk assessment, which will be issued to the end user and held on KCC's RADON file for future reference or use. The risk assessment would then need to be reviewed approximately every 10 - Ten years and or, if there are significant changes to the workplace, structure or use.

**Stage 9:** Where an existing building has been shown, through monitoring, to have a radon level above the recognised action level (**300 Bq/m<sup>3</sup>**), remedial measures will be considered and implemented as soon as is reasonably practicable. Any such measures will be appropriate to the levels of radon detected, the type of building affected and the occupancy rates. A Radiation Protection Adviser (RPA) with radon experience should normally be consulted about how best to manage radon exposures. If detection of high levels of RADON readings is found and based on the

buildings floor design and usage, a specialist surveyor will be engaged to design dispelling methods.

**Stage 10:** Analysis takes one month later, following analysis, a report by UKHSA is generated and sent to Skanska summarising findings and recommendations. This is added to the tracker for information.

**Stage 11:** Any critical high-risk sites to be priced for remedial works and submitted to KCC for approval and a tracker is formed for the programme of works high risk works will be completed within 1 year as per Radon regulations.

**Stage 12:** Recommendations made for testing regime based on reading results.

### Example of recommendations

**Red** high level readings sites requiring remedials      **1 year testing until levels drop**

**Amber** Medium levels readings sites      **5 year testing**

**Green** Low level reading sites      **10 year testing**

### Remedial Actions

If detection of high levels of **RADON** readings is found and based on the buildings floor design and usage, a specialist Design Engineer based in Extraction design techniques will be engaged to mitigate **RADON GAS** dispelling methods . For readings greater than or equal to **1000 Bq m-3** advice from UKHSA will be sought. Surveyor determinations will be made for: o Floor type Solid or Suspended o Reading Level 500 Bq m-3 o Sump Fan Required Active or Passive o Ventilation Positive (fan) – Passive (venting grilles) o Basement Yes/No o Basement Usage Storage or Occupied o Basement Considerations Occupancy -duration/windows

Floor type	Solid		Suspended	
Radon level* (Bq m <sup>-3</sup> )	Under 500	Over 500	Under 500	Over 500
Recommended solutions, best first	Radon sump or Positive ventilation	Radon sump	Natural under-floor ventilation or Positive ventilation	Mechanical under-floor ventiation or Natural under-floor ventilation