

### **324 Building March/April 2019 Timeline**

~March 1: Drilling for structural support (micropile) began in Room 18, located in the basement of the 324 Building.

- Drilling through concrete primarily at this time; no contamination issues
- Because the potential to encounter contamination was considered during work planning, the area was posted and controlled for the potential for contamination, and the workers were wearing personal protective equipment and powered air purifying respirators as a precaution

March 13: Contamination was detected during drilling in Room 18. By this time, the drill rig had reached contaminated soil.

- Employees stopped working in Room 18, as per standard procedure
- Surveys beyond Room 18 detected no strontium contamination. This also included surveying tools and personal protective equipment.

March 14: Workers and management held a review of safety and contamination controls (i.e., ALARA)

- Soil samples were taken from the hole in Room 18 (first opportunity to take soil samples in years)
- Results showed higher than expected strontium (beta contamination)

March 19: Management instituted additional controls in Room 18 reflective of the higher beta contamination.

- The additional controls enhanced procedures related to work in Room 18 to reflect the higher strontium (beta) contamination
- The team began implementing enhancements to the drill cutting containment system, which required fabricating and testing additional equipment over the next several weeks
- This involved work in Room 18, but no drilling occurred during this time
- General access to Room 18 was restricted to the work team.

March 28: Contamination detected on employee's personal clothing.

- Employee was not involved in Room 18 work; employee was performing surveys of people and equipment as they exited the 324 contamination areas
- In a commonly used practice, workers easily removed contamination with tape; no other contamination was found on the employee, who cleared the personal contamination monitor
- Surveys were performed at the step off pad and surrounding area, including on the worker's area, and no contamination was detected

April 1: Management issued a Stop Work to implement the additional strontium controls for the entire 324 Building

April 4: Management lifted the Stop Work after additional controls were implemented

Week of May 6: Began implementing new procedures in Room 18 and installed new contamination control equipment on the drill rig

- Team would have been ready to begin drilling; however, annual preventative maintenance for the facility was occurring at the time

May 15: Drilling in Room 18 resumed, with enhanced controls in place and working.