



SUBSECTION NO: 3.4.1 - AIR ACTIVITY IN BUILDING 15

**1. APPLICABILITY**

This Limiting Condition applies whenever people are in the Reactor Building.

**2. OBJECTIVE**

The objective of the Limiting Condition is to ensure safety of personnel inside Building 15.

**3. LIMITING CONDITION**

The air activity in the Reactor Building atmosphere shall not exceed a contamination level of 10 DAC (tritium).

**4. SURVEILLANCE REQUIREMENTS**

Calibration/functional testing of the tritium monitors shall be conducted annually.

**5. ACTIONS**

5.1 If the air activity in the Reactor Building atmosphere exceeds 10 DAC, personnel shall be evacuated from Building 15 within one hour.

*Informative note: Procedures also require that the Facility Supervisor be informed if the airborne activity in the facility rises above 2 DAC. In such cases, the Supervisor must investigate the causes.*

**6. BASIS**

The basis of the Limiting Condition is for the Facility Supervisor to ensure personnel safety from radiological hazards. Tritium is considered as the critical indicating radionuclide, within the guideline of the ANSTO OHSE Standard (REF 2).

**7. REFERENCES**

- [1] LC Subsection 3.1.1.2 - "Detection of Tritium"
- [2] ANSTO OHSE Standard, Radiation Safety (AS2310), 2006
- [3] HIFAR Operations Instruction NHOI 9.2.25.8 "Instruction for Airborne and Surface Contamination Inside the RCB"
- [4] HIFAR OLC 4.17, Rev 3, Radiological Hazards, 2006 (superseded)