

**AMENDMENT RECORD**

REV	DATE APPROVED	PAGES/SECTIONS AFFECTED	REMARKS
0		All	New issue applicable for the de-fuelled HIFAR Facility (DHF).

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SUBSECTION NO: 3.2.1 - RIG HANDLING REQUIREMENTS

**1. APPLICABILITY**

These Limiting Conditions apply to the handling of radioactive rigs and associated equipment inside Building 15.

**2. OBJECTIVE**

The objective of these Limiting Conditions is to protect personnel from radiation.

**3. LIMITING CONDITIONS**

**3.1 During any active handling operation, the radiation dose rates shall be monitored. The monitoring should be carried out by a Health Physics Surveyor.**

**3.2 When any object is withdrawn from shielding, the radiation dose rates shall be monitored even if the object is thought to be inactive or even if a flask is used. The monitoring should be carried out by a Health Physics Surveyor**

**4. SURVEILLANCE REQUIREMENTS**

Routine surveillance by the Facility staff shall ensure that these requirements are met.

**5. ACTIONS**

5.1 If the Limiting Conditions above cannot be satisfied, then the handling operation shall be delayed until the conditions can be satisfied.

5.2 For planning purposes, the maximum exposure for any individual involved in any rig handling operation shall be less than 500  $\mu$ Sv.

**6. BASIS**

It is essential to protect personnel during changes to rigs and experimental equipment. This can be achieved through limiting the inherent radiation dose rate in conjunction with other techniques such as staff rotation, time, distance and shielding. In general, exposures shall meet the ICRP recommendations including the application of the ALARA principle.

**7. REFERENCES**

[1] HIFAR OLC 4.13, Rev 4, Irradiation Rigs and Experimental Equipment, 2005 (superseded).

[2] ANSTO OHSE Standard, Radiation Safety (AS2310), 2006

[3] HIFAR Procedure NHP 9.2.21 "Radiological Safety"