



Ref: 06/653

7 September 2010

Dr Carl-Magnus Larsson
Chief Executive Officer
ARPANSA
PO Box 655
MIRANDA NSW 1490

Dear Dr Larsson

**National Medical Cyclotron and Camperdown Facility –
Facility Licence F0044-5A, 5B, 5C – Application to Decommission Controlled Facilities**

As previously advised in correspondence to ARPANSA (Lyras to Graham, 5 February 2010), ANSTO has been planning to undertake redevelopment of the National Medical Cyclotron (NMC) and Camperdown Facility following the decision to cease operations at these facilities in October 2009. These plans include decommissioning of both facilities. To this end, a facility licence application to decommission both the NMC and Camperdown Facility under Section 32 (1) of the ARPANS Act 1998 has been prepared and assessed by the ANSTO Safety Assurance Committee (SAC). The application, along with supporting documents and required application fee, are enclosed with this letter. Consistent with discussions held with ARPANSA staff on 4 March 2010, the application covers both the Camperdown Facility nuclear installation and the NMC prescribed radiation facility (PRF).

As previously described, ANSTO intends to reuse the Camperdown building and parts of the existing facilities in a new research facility. Parts of the existing facilities which will be included in the new facility include the cyclotron vault, and services such as HVAC. It is planned that this future facility will use a new 18 MeV cyclotron to manufacture short-lived PET radioisotopes for research. Submissions to site, construct and operate a new PRF will be made in due course.

The decommissioning of obsolete items will be staged as follows. Further detail is included in the enclosed facility licence application.

- **Stage 1** – The items in the vault and in other areas to be used for the new research facility will be decommissioned in the first stage. The work involves dismantling and removal of the IBA 30 cyclotron from the vault and transport to storage at Lucas Heights, removal of items from the PET room and control room, and removal of the hot cells from the GMP area. The enclosed facility licence application includes the safety assessment and documents supporting this stage.
- **Stage 2** – The remaining items, principally the equipment in the SPECT beam rooms and in the radiochemical production area, will be decommissioned in a second stage. This is reflected in the decommissioning plan included as part of the enclosed facility licence application. The safety case for this second stage will be prepared when the detailed engineering has been completed and assessed by SAC. Approval will be sought from ARPANSA under Regulation 51 before commencing this stage.

Control of the existing facilities will be maintained by ANSTO Engineering and Capital Programs during decommissioning, and then transferred to the new research facility following approval for operation of the new PRF is obtained from ARPANSA.

If you require any further information in regard to this matter, please contact the ANSTO Regulatory Affairs Officer, Mark Alexander on (02) 9717 9077.

Yours Sincerely



Con Lyras (Nominee)

General Manager – Engineering and Capital Programs

Encl: Facility Licence Application – Decommissioning of National Medical Cyclotron and Camperdown Facility

cc: Adi Paterson – Chief Executive Officer
Alec Kimber – Project Manager – Engineering and Capital Programs
Hefin Griffiths – Manager – Quality, Safety, Environment and Radiation Protection
Mark Alexander – Regulatory Affairs Officer
Steven McIntosh – Senior Policy Advisor