



# BICRON®

**BICRON CORPORATION**

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March 18, 1985

U.S.N.R.C.  
Region III Liscensing Section  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Gentlemen:

Reference: Control No. 77964

In support of our request for liscense amendment dated 12-5-84, we are supplying the following information:

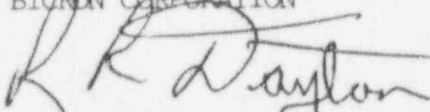
Form NRC-3131 Item 8. We wish to add an Amersham Corporation sealed Am-Be neutron source Model AMN.PEn, X2 capsule to our source inventory. This Am-Be neutron source will be used in our final test department to characterize the performance of various neutron detectors prior to shipment of these neutron detectors to end user customers.

The Model AMN. PEn neutron source in the X2 capsule delivers a dose of 2.2 millirem/hour at 1.0 meter per curie of activity. We will purchase a source of less than 400 millicuries and therefore expect a dose rate of less than 0.88 millirem/hour at 1.0 meter. In order to minimize the dosage to technicians handling the source during test operations, a two meter long pole will be used to extract the source from its storage container and place it in the test geometry. Distance of closest approach to the source will be restricted to two meters.

Thank you for your consideration of this amendment. If additional information is required please contact us.

Sincerely,

BICRON CORPORATION

  
Rod Dayton  
Director of Product Research

RD/jj

RECEIVED

MAR 20 1985

REGION III

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REG3 LIC30  
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