NRC FORM 699
(11-2017)

U.S. NUCLEAR REGULATORY COMMISSION

CONVERSATION RECORD

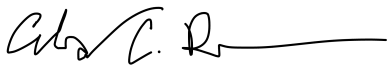
NAME OF PERSON(S)/TITLE CONTACTED OR IN CONTACT WITH YOU	DATE OF CONTACT	TYPE OF CONVERSATION
Roger Moroney, Health Physicist, Siemens USA	10/10/2019	☑ E-MAIL ☐ TELEPHONE ☑ INCOMING ☐ OUTGOING
E-MAIL ADDRESS william.moroney@siemens-healthineers.com	**TELEPHONE NUMBER** 1-865-201-7009	
ORGANIZATION Siemens USA	**DOCKET NUMBER(S)** 030-37957	
LICENSE NAME AND NUMBER(S) International Cyclotron, Inc. 52-31352-02	**MAIL CONTROL NUMBER(S)** 144277	

SUBJECT
Siemens 11 MeV Eclipse Cyclotron

SUMMARY AND ACTION REQUIRED (IF ANY)

Mr. Moroney had previously provided background information on the Eclipse-series 11 MeV cyclotron (see ADAMS package). In response to an NRC staff question about that background information, Mr. Moroney clarified that Co-60 and Eu-152 are mainly found in rebar and concrete, respectively, used for self-shielding, while Zn-65 is found throughout copper in the cyclotron itself. Mr. Moroney indicated that to get to Co-60 from Cu-63 requires a (n, alpha) reaction, which was not expected to be significant at the neutron energies in an 11 MeV Eclipse cyclotron, though it could happen with a 17 MeV cyclotron or higher. Mr. Moroney also clarified that Cs-137 can be included in the possession limits for a cyclotron even though it is not an incidental activation product because it is common to have a 200 - 250 uCi Cs-137 sealed source for use with the dose calibrator.

NAME OF PERSON DOCUMENTING CONVERSATION
A. Christianne Ridge

SIGNATURE	DATE OF SIGNATURE
	10/29/2019