



CONVERSATION RECORD

2-13-17

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU See below.		DATE OF CONTACT 02/07/2017	TYPE OF CONVERSATION <input type="checkbox"/> E-MAIL <input checked="" type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
E-MAIL ADDRESS		TELEPHONE NUMBER	

ORGANIZATION Croft Associates Limited	DOCKET NUMBER(S) 71-9338
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LICENSE NUMBER(S)	CONTROL NUMBER(S)
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SUBJECT  
Fluorine Gas Generation

SUMMARY  
NRC participants: Chris Allen and Jorge Solis  
Croft participants: Sarah Bryson

At approximately 8:30 A.M. eastern standard time on February 7, 2017, the NRC discussed with Croft Associates Limited a January 27, 2017 information submittal on the impact of radiation on PTFE (also known as Teflon) (ML17027A201) to docket number 71-9338. In the submittal, Croft identified that the PTFE liner used in their package design absorbed an average dose of 63 kiloGray (kGy) over a ten day period and a maximum dose of 147 kGy over a ten day period. In addition, the submittal identified that the proposed PTFE packing material absorbed an average dose of 67 kGy and a maximum dose of 430 kGy. A reference in the submittal also indicated that PTFE emits fluorine gas after absorbing 5 kGy. However, Croft did not provide information about the amount of fluorine gas generated. The NRC needed this information to ensure that the package design pressure would not be exceeded during shipment. Croft indicated they would evaluate the amount of fluorine gas generated. Croft stated that, after completing their evaluation, they would either provide calculations identifying the amount of gas generated or use a material other than PTFE. The NRC also pointed out to Croft that their information submittal stated that above 5 kGy, PTFE decomposed to powder. Since the PTFE liner maintained the radioactive contents in an analyzed shielding configuration, the NRC questioned how Croft would ensure

**Continue on Page 2**

ACTION REQUIRED (IF ANY)

**Continue on Page 3**

NAME OF PERSON DOCUMENTING CONVERSATION  
Chris Allen

SIGNATURE  
*William C. Allen*

**CONVERSATION RECORD (continued)**

SUMMARY: (Continued from page 1)

an adequate liner thickness. Croft committed to addressing this issue as well. The call concluded at approximately 8:45 A.M. eastern standard time.