



"Steven Courtemanche"  
<SRC@nrc.gov>  
12/26/2006 10:45 AM

To <DHUN@inel.gov>  
cc "Michele Burgess" <MLB5@nrc.gov>  
bcc  
Subject Closure information for NMED Event No. 060596

On November 30, 2006, you requested the following information on the above NMED Event:

(1) What was the cause of the event?

The licensee claims that it was solely a case of patient intervention while the NRC's consultant concluded that inadequate tightening of the three remaining headscrews was a factor in the event. (ML062700232)

(2) What corrective action(s) were taken by the licensee to prevent a recurrence?

(a) Careful monitoring of the patient for movement. Pause procedure if movement is seen and examine patient set-up for signs of change of position.

(b) Pre-screening of patients for suitability for the procedure.

c) Medication of patients who are viewed as higher risks for moving during the procedure.

(d) Technique modifications to minimize the use of the "Three-pin technique."

(3) What was the given dose to the intended area (if any) and what was the intended dose to the wrong area (if any)? I need that information to determine reportability (greater than 20%).

The licensee could not determine the dose to any one area since they did not note the time of the patient's movement during the procedure. They know a total of 6 Gray was delivered but not the percentage to the targeted volume and the unintended site.

The NRC has determined that the event was reportable because of the issue of the tightening of the screws and not pausing the procedure after noting the patient's movements.

(4) Who was the manufacturer of the gamma knife unit?

[REDACTED]

(5) What was the model and serial numbers of the unit?

The model of the unit is a [REDACTED].  
The serial number of the unit is 4341

(6) What was the activity of the Cobalt-60 used?

There are 201 sources in the unit which, at the time of the event, had a total activity of 5191 Curies.

An inspection of the facility was completed on September 18, 2006, but the report has not been issued at this time. This action is not going to be escalated enforcement and management would like the event closed unless you require further information.