

SAFENIGHT TECHNOLOGY INC.

"the safer smoke detector network"

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July 12, 1995

Ms. Michelle Burgess, Mechanical Engineer
United States Nuclear Regulatory Commission
#2 Wide Flint North
11555 Rockville Pike T-8f5
Rockville, MD 20852

Re: Response to June 6, 1995 and February 9, 1995 letters
from David T. Tang

Dear Michelle:

We are pleased to finally be able to respond to your inquiries from the letters above. From our application, there were two areas of delayed responses:

- 1) Prototype testing
- 2) QA/QC program

1) Prototype testing. On June 9, 1995, we conducted prototype tests on two prototypes at the office of Physics Associates in Roanoke, Virginia.

Drop test. In the first test, we took a SafeNight Model SN-100 (see other changes below) unit and dropped it ten times from a height of 4 meters onto a concrete floor. During the course of the testing, the board did separate from the ABS plastic smoke detector housing, and the steel ion chamber cover came off on drop seven. The source remained in place in its source holder(s) and remained attached to the PCB throughout the testing. Wipe tests were taken from the Am-241 source and the immediate environs thereof. A calibrated PC/3 NAI multi-channel analyzer gamma ray spectroscopy system was used to analyze the wipes. No removable contamination was observed above background levels and did not exceed 0.005 uCi.

Impact Test. In the second test, we took a SN-100 unit and dropped a 1 pound hammer on its surface 10 times from a height of 24 inches. No damage was done to the smoke detector except the steel ion chamber cover was dented. Wipe tests were done from the ion chamber cover and immediate environs thereof. Using the same multi-channel analyzer, no removable contamination was observed above background levels and did not exceed 0.005 uCi.

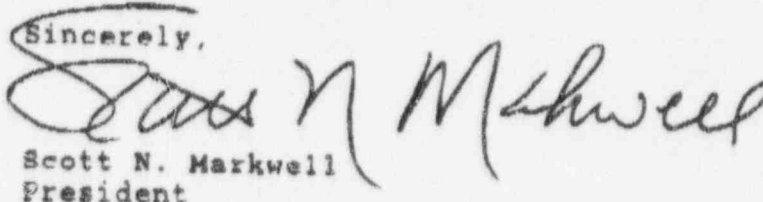
2) QA/QC Program. Attached is our QA/QC program for your review.

Other changes from our original submission:

- 1) Section 3.1.2 - Our name has been changed from Sleepsafe Corporation to SafeNight Technology Inc.
- 2) Section 3.1.4 - The names of our models have been changed from 500S to the SN series and the 200p to the PL series. The SN-100 is our base model.
- 3) From Figure 1, our ion chamber cover is now nickel, copper, and tin plated versus just tin plated.
- 4) From ABS housing drawings, wall thickness from Section E-E of the "base" drawing has been reduced to 0.040.

Thank you for your assistance on our obtaining an exempt distribution license. Should there be any other questions about our responses, please let me know.

Sincerely,



Scott N. Markwell
President

SNM/ct