

**From:** "H. Savage" <hsavage@abetterarchery.com>  
**To:** "William Ward" <WRW1@nrc.gov>  
**Date:** Fri, Dec 6, 2002 5:45 PM  
**Subject:** Re: Night Hawk Sight Pins - questions

Thanks for your email. Your questions are well in order. Upon review of your items in question, we are pleased to submit the following conformations:

- (1) In all areas in our application, where we stated "0.14 Ci", this is an error. You are correct, the actual amount of activity is only 0.014 Ci.
- (2) As the amount of activity is only 0.014 Ci, with 10,000 units in Section XII, page 7, the annual distribution would be only 140 Ci. (We were in error with 1,400 Ci distribution due to pointing off wrong).
- (3) On page 7, Section XIII.c, the correct exponent should be "-7, not "-10".
- (4) On page 8, we confirm that the "-10" should be "-7" in regards to the committed dosage. Please correct the exponent value to read the correct value of "-7".
- (5) In Section II, page 4, we intend to use model 400/3, of which, is a rectangular section source of mb-microtec. Please note this correction as well.
- (6) All of our drawings of the units are in inches.

Thank you for noting our miscalculations. If you need anything further, please do not hesitate to contact us. We look very much forward in receiving our license soon.

Very sincerely, Huey Savage, General Manager

----- Original Message -----

From: "William Ward" <WRW1@nrc.gov>  
To: <hsavage@abetterarchery.com>  
Sent: Friday, December 06, 2002 3:24 PM  
Subject: Night Hawk Sight Pins - questions

> Mr. Savage,

>

> Per our phone conversation, here are the confirmations I need.

>

> In Section II, page 4 of the application, you stated that the sight pins contain only 14 mCi each. This activity is used frequently throughout the application. However, in Section V.A, Item F at the top of page 5, you mentioned the sight activity as 0.14 Ci (5.2 GBq). I believe this should be 0.014 Ci (518 MBq). Please confirm that the correct value is 0.014 Ci or 14 mCi (518 MBq).

>

> Likewise, in Section VIII, the activity is stated to be 0.14 Ci each, and with 10,000 units annual distribution, 1,400 Ci annual distribution. Please confirm that these numbers should be 0.014 Ci and 140 Ci annual distribution.

- >
- > In Section XIII.c, page 7, the calculated value for 'C' is 2.29E-10 mCi/m<sup>3</sup>. Our calculations show that the value should be 2.29E-7 mCi/m<sup>3</sup>. Please confirm the exponent in this case to be -7, not -10.
- >
- > Likewise, on page 8, the value of 'C' is carried through the calculation. Please see Annual committed dose:  $H = 2.29E-10$ ..... Please confirm that I should correct the exponent value here to -7.
- >
- > In Section II, page 4, you listed the mb-microtec source configuration as 40011. I understood this to mean model 400/1. However, in Section V.A Item A at the top of page 5, you stated that the sources have a rectangular section. Per SSD Certificate NR-446-S-102-S, the rectangular section source is a model 400/3. Please confirm that you intend to use model 400/3 in your sight pins.
- >
- > Please confirm that the drawing units are inches.
- >
- > You may reply to this email, by mail, or fax me your response at the number below. In the interest of time, if you prefer to mail the response, please fax a copy prior to mailing. Thank you.
- >
- > Sincerely,
- > William R. Ward, P.E.
- > NRC/NMSS/IMNS/MSIB
- > WRW1@NRC.GOV
- > (301) 415-7038
- > (301) 415-5369 fax
- > m/s T8-F5
- >
- >
- >

**Mail Envelope Properties**

(3DF12882.67D : 17 : 50813)

**Subject:** Re: Night Hawk Sight Pins - questions  
**Creation Date:** Fri, Dec 6, 2002 5:43 PM  
**From:** "H. Savage" <hsavage@abetterarchery.com>

**Created By:** hsavage@abetterarchery.com

**Recipients**

nrc.gov  
owf1\_po.OWFN\_DO  
WRW1 (William Ward)

**Post Office**  
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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3250	Friday, December 6, 2002 5:43 PM
Mime.822	4354	

**Options**

**Expiration Date:** None  
**Priority:** Standard  
**Reply Requested:** No  
**Return Notification:** None

**Concealed Subject:** No  
**Security:** Standard

Received: from igate.nrc.gov  
by nrcgwia.nrc.gov; Fri, 06 Dec 2002 17:45:20 -0500  
Received: from nrc.gov  
by smtp-gateway ESMTPE id RAA06073  
for <WRW1@nrc.gov>; Fri, 6 Dec 2002 17:41:24 -0500 (EST)  
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(authenticated (0 bits))  
by hs7.order-vault.net (8.11.6/8.11.6) with ESMTPE id gB6MjFf25225  
for <WRW1@nrc.gov>; Fri, 6 Dec 2002 17:45:16 -0500  
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Reply-To: "H. Savage" <hsavage@abetterarchery.com>  
From: "H. Savage" <hsavage@abetterarchery.com>  
To: "William Ward" <WRW1@nrc.gov>  
References: <sdf0cf4e.071@nrcgwia.nrc.gov>  
Subject: Re: Night Hawk Sight Pins - questions  
Date: Fri, 6 Dec 2002 16:43:14 -0600  
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