

From: [Chris Vanderpool](#)
To: [Jankovich, John](#)
Cc: [Modes, Kathy](#); [Kotzalas, Margie](#); [Eric Jameson \(Eric.Jameson@dnr.state.ga.us\)](#); [Robert Rushton](#)
Subject: Re: registration of Hopewell Designs, Inc. Model N40-7C
Date: Thursday, October 17, 2013 6:12:02 PM
Attachments: [N40 SSDR Amendment 10-17-13.pdf](#)
[N40 SSDR Amendment 10-17-13.doc](#)
[4562R1 N40 Overall Assembly Views.pdf](#)

Hello John,

The Hopewell Designs SSDR amendment for the Model N40 Neutron/Gamma beam irradiator (SSDR GA-1138-D-106-S) is attached for NRC review. A hard copy will be mailed to the address you specified. If you have any questions regarding the amendment, please contact me via e-mail, or by cell phone 706-338-1036.

Best regards,

Chris

On Thu, Oct 17, 2013 at 2:36 PM, Jankovich, John <John.Jankovich@nrc.gov> wrote:

Chris,

Please see the responses **in red below**, following the questions in your e-mail.

John

From: Chris Vanderpool [mailto:chris.hdirad@gmail.com]
Sent: Thursday, October 17, 2013 12:15 PM
To: Jankovich, John
Cc: Modes, Kathy; Kotzalas, Margie
Subject: Re: registration of Hopewell Designs, Inc. Model N40-7C

John,

Hopewell Designs will amend SSDR GA-1138-D-106-S. I intend to submit the amendment this evening and I have a few questions.

1.) What is the preferred method for submission? Is e-mail acceptable along with a mailed hard copy, and payment? **Answer: this is the best way, e-mail with attachment/s, followed by a hard copy.**

2.) Does this amendment go directly to you? **Answer: please send it to me addressed as**

John P. Jankovich

Mail Stop T-8E24

U.S. Nuclear Regulatory Commission

11555 Rockville Pike

Rockville, MD 20852

3.) Under 10 CFR 171 Section 16(d), Table Item 9 is the correct fee for this amendment A. \$8000? Answer: I do not have an answer because (a) we have not received fee-related direction for the transfer of the Georgia registrations, and (b) the NRC does not charge fees for amendments. Please do not send any fees at this time; when we know more, we will let you know.

Thanks,

Chris

On Thu, Oct 17, 2013 at 8:53 AM, Jankovich, John <John.Jankovich@nrc.gov> wrote:

Chris,

I am sending this e-mail to you to supplement the information what you and Kathy Modus/NRC have discussed below.

Please note that there are **three different options** available for the registration of a unique version of the Hopewell's N40 irradiator:

1. You may add it to Hopewell's regular sealed source and device registration (SS&D) GA-1138-D-106-S. With this option, the modified version would be approved for commercial distribution to other users besides General Dynamics. If you chose this option, you need to send an amendment request to us at the NRC because the NRC took over the SS&D function from the State of Georgia.
2. A custom SS&D registration could be issued to Hopewell which would specify General Dynamics as the sole user. You can find more information on custom registration in the applicable guidance document, NUREG-1556, Vol. 3, Rev 1, Section 5.2. This option will need a safety review similar to the one that NRC would conduct for

the amendment in Option 1. The document is accessible on the NRC website at www.nrc.gov.

3. The modified version could be added to General Dynamics' license as a license condition in accordance with 10 CFR 30.32(g)(1)(ii). This option will also need a safety review similar to the one that NRC would conduct for the amendment in Option 1.

If you need further information, please contact me by e-mail or call at [301 415-7904](tel:3014157904).

John

John P. Jankovich, Ph.D.

Team Leader

Sealed Source and Device Registrations

Office of Federal and State Materials and

Environmental Management Programs

U.S. Nuclear Regulatory Commission

Washington, DC 20555

From: Modes, Kathy
Sent: Thursday, October 17, 2013 8:23 AM
To: Chris Vanderpool
Cc: Jankovich, John
Subject: RE: Hopewell Designs, Inc. Model N40-7C

Chris,

Thanks for the email and voice mail messages. Yes, I am aware that you need to submit an amendment to your SSDR. I've cc'd John, the NRC expert on SSDR on this email.

Please continue to keep me in the loop as this progresses.

Also, please work with your sales personnel to ensure they keep to the SSDR. If there are any modifications, it takes time to do the review. Now I am not sure if we can issue

the amendment next month.

Let's keep in touch.

Thanks,

Kathy

P.S. The President signed the bill around 2 AM and I am back to work by 8 AM! This is how the gov't should work!

From: Chris Vanderpool [<mailto:chris.hdirad@gmail.com>]

Sent: Thursday, October 10, 2013 3:21 PM

To: Modes, Kathy

Subject: Hopewell Designs, Inc. Model N40-7C

Kathy,

Today, I spoke with Sean McKibben at General Dynamics Electric Boat and sent him a copy of our SSDR GA-1138-D-106-S. Sean responded to my e-mail stating that he didn't see an illustration of their N40 design in the SSDR.

After consulting with others at Hopewell I found out that our sales person may sold an N40 to General Dynamics with modifications. After reviewing the specs and drawings against the SSDR it is clear the modifications fall outside the scope of the SSDR.

The N40 is designed to produce a panoramic beam, and General Dynamics wanted the beam to be collimated instead of panoramic due to lack of shielding in their facility. The new design is the same as the old with the exception of an additional shield on top with a beam port.

In addition, the contract calls for 20.3 Ci of AmBe when our SSDR is limited to 20Ci.

The N40 is only in the engineering phase at this time and has not gone into production. Clearly, I need to submit an amendment to our SSDR to match the device that that General Dynamics will take possession. I just wanted to make you

aware of this discrepancy and that I am taking action to correct the SSDR prior to customer acceptance of an operable device.

If you have any questions or comments please give me a call [\(706\)338-1036](tel:(706)338-1036).

Best regards,

Chris Vanderpool, RRPT

Radiation Safety Officer

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[\(770\) 667-5770](tel:(770)667-5770) Main office

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