

**From:** [Brett Clarke](#)  
**To:** [Lawyer, Dennis](#)  
**Subject:** [External\_Sender] NRC Amendment  
**Date:** Wednesday, January 18, 2017 10:26:25 AM  
**Attachments:** [Material totals.docx](#)

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Dennis,

Let's try this again. Please see the attached Word document for the required radioactive material quantities. This covers our total inventory, but as stated previously I would never expect more than 5 or 6 units in your jurisdiction on any given day, maximum.

**Brett D. Clarke**

Metals/NDT Services and Corporate Level III

**FROEHLING & ROBERTSON, INC.**

1734 Seibel Drive, NE, Roanoke, Virginia, 24012 | USA  
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**From:** Lawyer, Dennis [mailto:Dennis.Lawyer@nrc.gov]  
**Sent:** Thursday, January 12, 2017 3:29 PM  
**To:** Brett Clarke <BClarke@FandR.com>  
**Subject:** RE: RE: NRC Amendment

Mr. Clarke,

It is a start. I just need to know the maximum number by each gauge model as listed on the license. Model 3411, 3430, 3440 are all 3400 series and will be listed as one line item. The max on them per the sealed source and device registry is 9 mCi. I believe the Instroteck is max. of 10 mCi Cs-137. Because the maximum is different, I need to make a different line item. If that is too difficult, then I could make 5 of each line item multiplied by the maximum activity for that gauge.

Dennis Lawyer

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**From:** Brett Clarke [<mailto:BClarke@FandR.com>]  
**Sent:** Thursday, January 12, 2017 2:51 PM  
**To:** Lawyer, Dennis <[Dennis.Lawyer@nrc.gov](mailto:Dennis.Lawyer@nrc.gov)>  
**Subject:** [External\_Sender] RE: NRC Amendment

Mr. Lawyer,

Thank you! I thought I was putting together a total for the company. At any one day, I find it hard to believe we would have more than five gauges under the NRC license, either in WV, DC or a military base and other Federal property. Is this a sufficient enough 'guess'?

We use Troxler 3411, 3430, 3440 and 4640, and Instrotek 3500, all of which use Cesium 137 (8.0 mCi. max) and Americium 241:Be (40 mCi. max). If we have five of any type within your jurisdiction on a particular date that would be 50 mCi. of Cesium 137 and 200 mCi. of Americium 241:Be.

If this information is insufficient, please let me know.

**Brett D. Clarke**

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**From:** Lawyer, Dennis [<mailto:Dennis.Lawyer@nrc.gov>]

**Sent:** Thursday, January 12, 2017 6:18 AM

**To:** Brett Clarke <[BClarke@FandR.com](mailto:BClarke@FandR.com)>

**Subject:** NRC Amendment

Mr. Clarke,

Just a reminder, that I am waiting for a response to tell me how much material (activity) for each gauge model (as listed on the license) you would like to be licensed. I can take this response by email. You only need to have the amount of material that would be in NRC jurisdiction at any one time.

I do not need the information for the analyzers.

Dennis Lawyer

U.S. NRC Region 1

Health Physicist

610-337-5366

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