



# NIOWAVE, INC.

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February 17, 2015

U.S. Nuclear Regulatory Commission  
Region III Office  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Attn: Ms. Toye L. Simmons; Mr. Kevin Null

Subj: Requested Amendment of NRC License Number 21-35145-01

Dear Ms. Simmons and Mr. Null:

Based on email correspondence with Dr. Peter Lee in February 2015, regarding machining uranium submerged in coolant, we request the following change to the conditions of our license:

Replace paragraph 3 of the Amendment of NRC License Number 21-35145-01 dated October 6, 2014:

"The source material being machined will be cooled by the discharge of a continuous stream of coolant from an electrically driven pump"

by (addition in *italics*):

"The source material being machined will be cooled by the discharge of a continuous stream of coolant from an electrically driven pump *or will be submerged in coolant during machining*"

Machining of source material while it's submerged in the coolant will be done in the same way as machining with continuous stream of coolant from an electrically driven pump. The only difference is that the coolant will be present in the machining container from the very beginning instead of being accumulated over time.

No changes to our waste management procedures for handling, storing, and disposal of the contaminated coolant are being requested. We expect the option of submerging the source material in coolant will reduce the amount of contaminated coolant produced when compared to continuously pumping.

Regards,

Terry L. Grimm,  
President and Senior Scientist

**Tomczak, Tammy**

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**From:** Pelke, Patricia  
**Sent:** Tuesday, February 17, 2015 5:21 PM  
**To:** Tomczak, Tammy  
**Cc:** Null, Kevin; Simmons, Toye  
**Subject:** Please process attached as an amendment and assign to Simmons - thanksFw: Requested Amendment of NRC license Number 21-35145-01  
**Attachments:** SourceMaterialMachiningLicenseAmendmentProposal150217(signed).pdf  
**Importance:** High

Sent from Blackberry

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**From:** Valeriia Starovoitova [<mailto:valeriia@niowaveinc.com>]  
**Sent:** Tuesday, February 17, 2015 06:06 PM  
**To:** Null, Kevin  
**Cc:** Simmons, Toye; Pelke, Patricia; Dr. Terry Grimm <[grimm@niowaveinc.com](mailto:grimm@niowaveinc.com)>; [maddock@niowaveinc.com](mailto:maddock@niowaveinc.com) <[maddock@niowaveinc.com](mailto:maddock@niowaveinc.com)>  
**Subject:** Requested Amendment of NRC license Number 21-35145-01

Dear Ms. Simmons and Mr. Null,

Attached is an electronic copy of our request for the amendment of NRC License Number 21-35145-01. We will mail the hard copy of the request tomorrow to your office.

Sincerely,

Valeriia Starovoitova

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Dr. Valeriia Starovoitova  
Nuclear Physicist  
Niowave, Inc

On 2/17/2015 10:24 AM, Null, Kevin wrote:

Dr. Starovoitova,

A record of our conversation is attached.

Please call or e-mail me if you have any further questions.

Kevin Null  
630-8298-9854