



American Radiolabeled
Chemicals, Inc.

101 ARC Drive
Saint Louis, MO 63146 USA
Phone: 314-991-4545 or 800-331-6661
Fax: 314-991-4692 or 800-999-9925
Web: <http://www.arc-inc.com>
Email: arcinc@arc-inc.com

December 19th, 2018

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

Reference: License No. 24-21362-01 Amendment request

To Whom It May Concern:

American Radiolabeled Chemicals, Inc (ARC) requests amendment to Materials License 24-21362-01, specifically Sections 6 B. 8 to reflect an increase in the possession limit for Tritium (H-3) from 12000 curies to 14000 curies.

Should additional information, or clarification, be required please contact me directly.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeffrey S. Vollmer', written in a cursive style.

Jeffrey S. Vollmer, CHP
Radiation Safety Officer

CC: Surendra K. Gupta, PhD
President, ARC, Inc.
Chair, Radiation Safety Committee
Radiation Safety Committee File

Song, Taehoon

From: Forster, Sara
Sent: Wednesday, December 19, 2018 1:11 PM
To: Pavon, Sandy; Sandrik, Lauren; Song, Taehoon
Cc: Tomczak, Tammy
Subject: FW: Amendment Request re American Radiolabeled Chemicals, Inc. NRC Lic. No. 24-21362-01; tritium possession limit increase
Attachments: AMEND REQUEST 12.19.18.pdf

Could you please scan in the attached message and forward to Tammy Tomczak/Patty Pelke to be controlled in as a new amendment request and assigned to a reviewer?

Thank you!

Sara Forster

From: Jeffrey Vollmer [mailto:jeff@arc-inc.com]
Sent: Wednesday, December 19, 2018 12:48 PM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

See attached Amendment request. I can send a hard copy as well if you want.

Jeffrey S. Vollmer

From: Forster, Sara [mailto:Sara.Forster@nrc.gov]
Sent: Wednesday, December 19, 2018 5:30 AM
To: Jeffrey Vollmer
Subject: RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

I just checked the application and the tritium possession limit listed on the "ITEM 5 – RADIOACTIVE MATERIALS" is 12,000 Ci. I am not seeing the 14,000 Ci possession limit. Am I missing something? If you would like to increase the tritium possession limit, you may do so by submitting a signed and dated letter to amend the license.

Sara Forster, U.S. NRC

From: Jeffrey Vollmer [mailto:jeff@arc-inc.com]
Sent: Tuesday, December 18, 2018 3:08 PM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] RE: RE: RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

One other item I noticed was that we requested to increase from 12000 Ci to 14000 Ci of H-3 but this change stayed the same. Just curious why it stayed the same.

Jeffrey S. Vollmer, CHP

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]

Sent: Tuesday, December 18, 2018 10:11 AM

To: Jeffrey Vollmer

Subject: RE: RE: RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

So... it sounds like you don't need a license amendment. Correct? If there is something you need corrected or amended, please send a signed and dated letter as a pdf file, attached to an email.

Sara Forster, U.S. NRC

From: Jeffrey Vollmer [<mailto:jeff@arc-inc.com>]

Sent: Tuesday, December 18, 2018 10:04 AM

To: Forster, Sara <Sara.Forster@nrc.gov>

Subject: [External_Sender] RE: RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

yes

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]

Sent: Tuesday, December 18, 2018 10:00 AM

To: Jeffrey Vollmer

Subject: RE: RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

Are those quench standards generally licensed? If so, you wouldn't need a specific license for those.

From: Jeffrey Vollmer [<mailto:jeff@arc-inc.com>]

Sent: Tuesday, December 18, 2018 9:58 AM

To: Forster, Sara <Sara.Forster@nrc.gov>

Subject: [External_Sender] RE: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

I received the new license today. I was thinking about the sealed source question some more. I think we do use sealed sources just not as part of an instrument like a GC. We get quench standards to calibrate our LSC. The standards are H-3 and C-14.

Jeffrey S. Vollmer, CHP

RSO

American Radiolabeled Chemicals.

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]

Sent: Thursday, December 6, 2018 10:39 AM

To: jeff@arc-inc.com

Subject: Additional Information Request re American Radiolabeled Chemicals, Inc. renewal, NRC Lic. No. 24-21362-01, CN609107

Dear Mr. Vollmer:

We have reviewed your June 13, 2018 application (NRC Accession No. ML18166A321) requesting renewal of the above-listed radioactive materials license, for use of radioactive material for manufacturing and distribution.

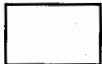
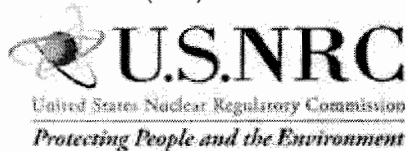
Upon review, and as discussed, we have noted that the application omits details requested in the NRC's NUREG 1556 Vol. 12, rev. 1, "Program-Specific Guidance about Possession License for Manufacturing and Distribution," guidance volume. Please see attached for information needed to complete our review of your request.

To facilitate our continued review of your request, please provide additional information – via a signed and dated cover letter and resubmitted supporting information - as noted in the attached record.

Please provide an initial response by the end of this week (on or before December 7, 2018). For items to which you are unable to respond in full at this time, please indicate the date by which you will submit a complete response. Include a signed and dated cover letter transmitting your response. Submission of your response as a pdf file attached to an email or via facsimile will allow for the quickest processing. Please call or email me with any questions you may have, or if you are unable to respond by the date suggested above. Thank you for your prompt attention to this matter.

Sincerely yours,

Sara A. Forster, Health Physicist Licensing Reviewer
U.S. Nuclear Regulatory Commission - Region III
Division of Nuclear Materials Safety
2443 Warrenville Rd. - Ste. 210
Lisle, IL 60532-4352
sara.forster@nrc.gov
Direct: (630) 829-9892
Facsimile: (630) 515-1078



Virus-free. www.avg.com