

Mr. Parker,

Referencing: ***Additional information for CN634478***

I'm not sure what "additional information" you are asking for as you did not ask me for any specific information in your email regarding the Zn-65. Is there something about that particular material that concerns you more than the Co-58 or Mn-52 or any of the other materials that were listed on our license? I can tell you that we do not, to the best of my knowledge, have any more ionized metal parts in the lab that the work was done in, and nothing in the storage room where items were kept prior to disposal. All materials were disposed of as per our termination request and attached disposal papers; and the lab has not been used since the summer of 2020. The one primary user has since retired, and the other user has moved on to another job within Ford Motor Company. Due to this, FORD-RIC management has decided that their work would not be continued and asked that our license be terminated.

Our process was to have a company irradiate piston rings and cams for us. In the irradiation process, the items listed on the license is what was formed during that irradiation. As you may not be aware, our piston rings and cams are not made of just one metal, but a varied combination of metal alloys so that we can achieve the best results, or as in engine wear, the least amount of wear, during an engine being run over its lifetime. It is every car companies' goal to make engines last as long as possible. In order to do this with Internal Combustion Engines (ICE), we make parts of the best combination of metal alloys to reduce wear over an engine's lifetime. Each metal alloy in our rings and cams, once irradiated, was altered to what was on the license. So, in short, any of those materials on our license could be found in a certain piston ring or cam depending on the metal alloy that made up that particular piece. Our license covered several years' worth of testing and going back through my last shipping bill of lading, Zn was not called out in our last shipment.

Please reference the pictures below. In the yellow cabinet, all we have are the lead bricks and plates we used to shield the material while it waited for disposal. All contaminated PPE has also been removed as is seen in the second picture of our disposal drum.



Sincerely,

*Scott Larkins*

**Sr. Safety Engineer**

**(CL, EPIC, GTL, RIC [ Dearborn, FRL, GFL I, II, Norwood annex], VICE)**

**2101 Village Rd.**

**Dearborn, MI 48124**

**Cell - 313-790-2726**

**RIC - Rm 3147C**

## Martha Pavon

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**From:** Larkins, Scott (S.R.) <slarkins@ford.com>  
**Sent:** Wednesday, April 12, 2023 2:32 PM  
**To:** Bryan Parker  
**Subject:** [External\_Sender] RE: RE: Need info re: NRC license termination CN634478  
**Attachments:** Termination letter for additional info.docx

Bryan,

I have updated the letter. See attached. Let me know if you need anything else.

*Scott Larkins*

Sr. Safety Engineer  
(CL, EPIC, GTL, RIC [ Dearborn, FRL, GFL I, II, Norwood annex], VICE)  
2101 Village Rd.  
Dearborn, MI 48124  
Cell - 313-790-2726  
RIC - Rm 3147C

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**From:** Bryan Parker <Bryan.Parker@nrc.gov>  
**Sent:** Wednesday, April 12, 2023 2:31 PM  
**To:** Larkins, Scott (S.R.) <slarkins@ford.com>  
**Subject:** RE: RE: Need info re: NRC license termination CN634478

Mr. Larkins,

Thank you for the prompt response. My specific question is what happened to the zinc-65 (Zn-65)? It is listed on the license, but that does not tell me whether you ever actually possessed it or not. All of the other isotopes listed on your license are either accounted for in the waste disposal paperwork provided in your original request and/or they are so short-lived that they would have sufficiently decayed away by this point. However, Zn-65 has a 244 day half-life, so it is not suitable to have assumed to have decayed away sufficiently.

Therefore, it would seem that, with regard to Zn-65, either: 1) it was never possessed under the license; or 2) it was obtained & used but its ultimate transfer/disposal still needs to be fully accounted for.

Hopefully this clarifies my initial request for additional info.

As before, you may respond by email. Please provide a **signed – (either hand-signed or electronic signature)** response letter as a PDF, if possible, attached to an email back to me. Please mark your response as **“Additional information for CN634478.”**

Let me know if you have any questions.

Thanks.

*Bryan*  
**Bryan A. Parker**

Senior Health Physicist  
USNRC Region III  
[bryan.parker@nrc.gov](mailto:bryan.parker@nrc.gov)  
678-828-7050  
630-515-1078 (fax)



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**From:** Larkins, Scott (S.R.) <[slarkins@ford.com](mailto:slarkins@ford.com)>  
**Sent:** Wednesday, April 12, 2023 2:00 PM  
**To:** Bryan Parker <[Bryan.Parker@nrc.gov](mailto:Bryan.Parker@nrc.gov)>  
**Subject:** [External\_Sender] RE: Need info re: NRC license termination CN634478

Mr. Parker,

Please see attached document. I hope this answers your question.

*Scott Larkins*

Sr. Safety Engineer  
(CL, EPIC, GTL, RIC [ Dearborn, FRL, GFL I, II, Norwood annex], VICE)  
2101 Village Rd.  
Dearborn, MI 48124  
Cell - 313-790-2726  
RIC - Rm 3147C

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**From:** Bryan Parker <[Bryan.Parker@nrc.gov](mailto:Bryan.Parker@nrc.gov)>  
**Sent:** Tuesday, April 11, 2023 2:59 PM  
**To:** Larkins, Scott (S.R.) <[slarkins@ford.com](mailto:slarkins@ford.com)>  
**Subject:** Need info re: NRC license termination

**WARNING:** This message originated outside of Ford Motor Company. Use caution when opening attachments, clicking links, or responding.

Mr. Larkins,

I am reviewing your request to terminate NRC License No. 21-35113-01 which authorized use of certain isotopes for R&D purposes at your facility located at 2101 Village Rd, Dearborn, MI.

Most of the material possessed has been disposed and/or otherwise accounted for in your request dated 02/08/23 except for one isotope. Can you provided me with additional information with regard to the Zinc-65 listed on your license?

You may respond by email. Please provide a **signed** response letter attached to an email back to me. Please mark your response as **"Additional information for CN634478."**

I would like to complete this action asap, so once you provide me a response, I will get the license terminated.

Please let me know if you have any questions.

Thanks.

*Bryan*

**Bryan A. Parker**

Senior Health Physicist

USNRC Region III

[bryan.parker@nrc.gov](mailto:bryan.parker@nrc.gov)

678-828-7050

630-515-1078 (fax)



## Martha Pavon

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**From:** Bryan Parker  
**Sent:** Thursday, April 13, 2023 9:24 AM  
**To:** Sandy Pavon; Martha Pavon  
**Cc:** Tammy Tomczak  
**Subject:** Please add AI to CN634478  
**Attachments:** [External\_Sender] RE: RE: Need info re: NRC license termination CN634478; 634478 AI 665.pdf

Hey Sandy & Martha,

Please add in ADAMS the attached Additional Information for CN634478 – Ford Motor Co. I need it to complete a termination.

A 665 is also attached.

Please let me know if you have any questions.

Thanks.

*Bryan*