

Request for Additional Information

Ford Motor Company – Research & Innovation Center Amendment (Requesting Possession Limits; CN 590134)

This RAI follows a voicemail left for the Applicant on April 20, 2016.

NOTE: All references to the "letter" in the items below refer to Ford's amendment request letter (ML16041A497) received via facsimile on February 10, 2016, unless otherwise indicated.

Participants:

NRC: Sara Forster, Health Physicist, Materials Licensing Branch, Region III

Applicant: Scott Larkins, Radiation Safety Officer

DISCUSSION ITEMS

As requested in the transmitting email message, we expect to receive your written response on or before May 4, 2016, under a signed and dated cover letter. The response should reference Control No. 590134, as listed at the top of this memo. The response may be sent via FAX to my attention at (630) 515-1078. In the alternative, the response may be scanned in and sent to me via email, as a pdf file.

RADIOACTIVE MATERIALS USE HISTORY:

To lower the maximum cobalt-57 (Co-57) possession limit from 630 μCi to 99 μCi , and the manganese-54 (Mn-54) possession limit from 60 μCi to 29 μCi please indicate the radioactive materials use history for each isotope. Include all areas of use (AOUs) where radioactive materials have been used under NRC License No. 21-35113-01, and not previously decommissioned/released by report to and/or review by the NRC:

1. For any area of use (aou) where unsealed Co-57 was used, and is no longer being used, submit closeout surveys and final materials disposition for Co-57 stored in the relevant aou.
2. For any area of use (aou) where unsealed Mn-54 was used, and is no longer being used, submit closeout surveys and final materials disposition for Mn-54 stored in the relevant aou.
3. If no Co-57 and/or Mn-54 aou is being closed out as part of this request, please so state. For all areas where Co-57 and/or Mn-54 was used, include the following information with your response:
 - a. History of radioactive materials use, by isotope, for that area. Include the last date(s) on which the isotope was used, possessed, transferred, and disposed.

- b. Area survey and wipe test results for each area of use to be released as part of any location close-out, including exposure rates and wipe results, background readings, facility diagram with survey and wipes keyed to specific locations, name of person(s) performing closeout survey and wipe-test results, background readings, instrument(s) used, and the last calibration date for the instrument(s) used.
 - c. Confirmation that all radioactive waste containing Co-57 and Mn-54 has been transferred to a radioactive waste broker for disposal. For materials transferred or otherwise disposed of, provide the license number and contact information for each facility where the material was transferred. Attach receipt confirmation by the materials recipient.
2. For each of Co-57 and Mn-54, please indicate the maximum total unsealed activity actually used/possessed at each location of use (lou) listed on the license.
3. For each of Co-57 and Mn-54, please indicate the current total unsealed activity possessed (in use or in storage, including waste) at each location of use (lou) listed on the license.

EXTENT OF KNOWN OR UNKNOWN Co-57/Mn-54 contamination:

4. Describe any contamination at each lou listed on the license, known or unknown, that may render that facility unsuitable for unrestricted release in accordance with NRC requirements.

Decommissioning Financial Assurance Requirements:

5. If the license is amended as requested, requirements for decommissioning financial assurance (dfa) to be on file with the NRC may be removed. Please indicate whether the letter includes a request for any submitted dfa to be returned to the licensee.

Forster, Sara

From: Forster, Sara
Sent: Wednesday, April 20, 2016 3:16 PM
To: 'Larkins, Scott (S.R.)'
Subject: Additional Information Request for Ford Motor Company - Research & Innovation Center, NRC Lic. No. 21-35113-01, CN590134
Attachments: 03620.590134.21-35113-01 RAI from 04 20 2016 call.docx

Dear Mr. Larkins,

As mentioned in my voicemail message to you this afternoon, I have attached a request for additional information related to the above-referenced amendment request. Please refer to NUREG 1556, Vol. 7, "Program-Specific Guidance About Academic, Research and Development, and other Licenses of Limited Scope," when preparing your response. The volume may be found at the website:

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v7>.

As noted in the attached record, please provide additional requested information within 14 days (on or before May 4, 2016), via a signed and dated cover letter. Submission of your response as a pdf file attached to an email or via facsimile will allow for the quickest processing.

Please call me to discuss the information requested in this message. Please also do not hesitate call me with any questions you may have, or if you will need additional time to complete your response.

Sincerely,

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



From: Larkins, Scott (S.R.) [mailto:slarkins@ford.com]
Sent: Thursday, February 11, 2016 8:37 AM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] RE: RE: FW: Revisions to NRC License

Wonderful, thanks. Have a good day.

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]
Sent: Thursday, February 11, 2016 8:09 AM
To: Larkins, Scott (S.R.)
Subject: RE: RE: FW: Revisions to NRC License

Hi Mr. Larkins... We have received your amendment request. It will be assigned to a materials licensing reviewer within the next few days. We aim to complete all amendment requests within 90 days of receipt, but that time may be longer or shorter based on the complexity of the review and other ongoing priorities.

Sincerely,

Sara A. Forster
U.S. NRC
(630) 829-9892

From: Larkins, Scott (S.R.) [<mailto:slarkins@ford.com>]
Sent: Wednesday, February 10, 2016 2:01 PM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] RE: FW: Revisions to NRC License

Sara,

Thanks. Just wanted to let you know that I just faxed in the change request in the format you suggested below. Any idea how these changes tend to take? Just curious.

From: Forster, Sara [<mailto:Sara.Forster@nrc.gov>]
Sent: Thursday, January 14, 2016 8:42 AM
To: Larkins, Scott (S.R.)
Subject: RE: FW: Revisions to NRC License

There is a lot of detail in the spreadsheet you sent, but the information may be helpful to include for the reviewer. Go ahead and submit your amendment request under a signed and dated cover letter.

If you could include a clear table either in the body of the letter or as a separate attachment to the request (from the detailed spreadsheet information included in the email below), it would be helpful if you clearly state the changes to the possession limits you are requesting (i.e. from lines 15 through 17 of the spreadsheet – as they would impact Items 6 and 8 on the license). Also, if there are any new radionuclides or changes to either form or use (i.e. for Items 7 and 9 on the license), please be sure to specify that.

Hopefully this is helpful. You may send your amendment request via fax, as a pdf file attached to an email, or via regular U.S. mail. Let me know if I can be of additional assistance.

Sincerely,

Sara A. Forster
U.S. NRC
(630) 829-9892

From: Larkins, Scott (S.R.) [<mailto:slarkins@ford.com>]
Sent: Thursday, January 14, 2016 7:14 AM
To: Forster, Sara <Sara.Forster@nrc.gov>
Subject: [External_Sender] FW: Revisions to NRC License

Sara,

Thanks for getting back with us. Here is what we are proposing below. If this all makes sense I can put it in a cover letter with the charts below for the request to change our license to include the listed materials. Let me know when I can move forward. Thanks.

From: Zdrodowski, Robert (R.J.)
Sent: Wednesday, October 21, 2015 2:57 PM
To: Gangopadhyay, Arup (A.K.); Larkins, Scott (S.R.)
Subject: RE: Revisions to NRC License

Scott,
The activity table from earlier today is attached. A summary of the proposed revisions to the license is shown in the table, below.

Thanks,

Rob Zdrodowski
Lubrication Science & Mechanical Friction Group
Base Engine Design
Powertrain Research & Advanced Engineering
Phone: (313) 390-4046

-----Original Appointment-----

From: Zdrodowski, Robert (R.J.)
Sent: Wednesday, October 14, 2015 1:46 PM
To: Zdrodowski, Robert (R.J.); Gangopadhyay, Arup (A.K.); Larkins, Scott (S.R.)
Subject: Revisions to NRC License
When: Wednesday, October 21, 2015 8:30 AM-9:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Arup's Desk