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December 5, 2018  
E-53126

U.S. Department of Transportation  
Attn: Mr. Richard W. Boyle, Chief  
Pipeline & Hazardous Materials Safety Administration  
Radioactive Materials Branch  
1200 New Jersey Avenue, S.E.  
East Building, PHH-20  
Washington, DC 20590

Subject: Application for Renewal to Competent Authority Certification  
USA/0565/B(U)F-96 for the Model No. TN-MTR, Third Supplement to  
Initial Application

References: [1] White, Bernard (U.S.NRC), Subject: Issue with Calculation and  
Properties for the Material Strength for Fuel Plates, Message to  
Michael Conroy (U.S.DOT), copy to Glenn Mathues (TN Americas  
LLC), November 2, 2018, E-Mail.

[2] White, Bernard (U.S.NRC), Subject: TN-MTR Clarification  
Questions, Message to Michael Conroy (U.S.DOT), copy to Glenn  
Mathues (TN Americas LLC), October 31, 2018, E-Mail.

[3] Letter E-53003, dated October 30, 2018, Application for Renewal  
to Competent Authority Certification USA/0565/B(U)F-96 for the  
Model No. TN-MTR, Second Supplement to Initial Application.

[4] Letter E-52876, dated October 17, 2018, Application for Renewal  
to Competent Authority Certification USA/0565/B(U)F-96 for the  
Model No. TN-MTR, Supplement to Initial Application.

[5] Letter E-52640, dated September 20, 2018, Application for  
Renewal to Competent Authority Certification, USA/0565/B(U)F-96  
for Validation of French Competent Authority Certificate F/357/B(U)F-  
96 for the Model No. TN-MTR.

[6] Competent Authority Certification for a Type B(U)F Fissile  
Radioactive Materials Package Design Certificate USA/0565/B(U)F-  
96, Revision 3, Revalidation of French Competent Authority  
Certificate F/357/B(U)F-96, dated April 21, 2009.

Dear Mr. Boyle:

In support of the application renewal to the Competent Authority Certification (CAC) USA/0565/B(U)F-96, Reference [5] above, TN Americas LLC, on behalf of TN International (TNI), is providing supplemental information. This information is based on recent communications with the U.S. Department of Transportation (DOT) and the U.S. Nuclear Regulatory Commission (NRC), References [1 and 2] above.

The following enclosures are included:


- Enclosure 1 provides the listing of the NRC questions provided in References [1 and 2] above followed by a TNI response.
- Enclosure 2 provides a copy of "LA 10294-MS - UC 41 - January 1986 – Los Alamos National Laboratory, New Mexico.
- Enclosure 3 provides a copy of the Patram 80 paper.
- Enclosure 4 provides the English translation of "Reference 8: TN International Note ref. NTC-07-0085519-000". This enclosure is Proprietary.
- Enclosure 5 provides the gas permeation report by H.-P Weise, K. -H Ecker, and H. Kowalewsky, 1990, IAEA-SM-286/44P.
- Enclosure 6 provides TN International's statement of proprietary information pursuant to 49 CFR 7.14, 49 CFR 105.30, and 10 CFR 2.390 to cover Enclosure 4. Enclosure 4 contains TN International's proprietary and business sensitive information.

Due to the size of this submittal package, this cover letter, Enclosures 1 through 3 and Enclosure 5 are being provided as an attachment to an email to both you and Mr. Conroy of your organization. Additionally a copy of this entire package is being sent to both you and Mr. Conroy by way of OpenTrust, a secure email transmittal.

TN Americas LL respectfully requests that the review schedule continue in order for Revision to 4 to CAC USA/0565/B(U)F-96 to become effective on or about March 15, 2019.

Should you or your staff have any questions or require additional information to support review of this application, please contact Mr. Glenn Mathues by telephone at 410-910-6538, or by e-mail at Glenn.Mathues@orano.group.

Sincerely,

  
for S. Edwards  
per delegation

W. Scott Edwards  
Director of Transportation  
TN Americas LLC

Enclosures:

1. NRC Questions and Responses
2. LA 10294-MS - UC 41 - January 1986
3. Patram 80 Paper
4. NTC-07-00085519-000, Test Report (English Translation)
5. Gas Permeation Report, IAEA-SM-286/44P
6. TN International Statement of Proprietary Information Pursuant to 49 CFR 7.14, 49 CFR 105.30, and 10 CFR 2.390

cc:

w/enclosures:

Michael Conroy, U.S. Department of Transportation

w/out enclosures:

Jay Thomas, Senior Project Manager, TN Americas, Fuel Cycle Services  
Vanessa Vo Van, Orano Back-End Sales, Services for Research Facilities  
Bernie White, Senior Project Manager, U.S. Nuclear Regulatory Commission,  
Division of Spent Fuel Management