



Transport and Engineering Division
Business Line Front End &
Research Reactors

**Department of Transportation
PHMSA**

1200 New Jersey Ave., S.E.
East building, 2nd Floor PHH-23
Washington, D.C. 20590-0001
United States of America

Contact: Jean-François Malhaire
Tel: (33) 1.34.96.51.95
Fax: (33) 1.34.96.54.67.
E-mail: jean-francois.malhaire@areva.com

For the attention of **Mr. BOYLE**

Montigny-le-Bretonneux, 20th March 2009

O/Ref.: CEX-09-00142973

Subject: **TN-MTR package**

U.S. validation of the French certificate of approval F/357/B(U)F-96 (Ct) for the package design consisting of the TN-MTR loaded with a MTR-52SV2 basket and its authorized radioactive content #9 (fuel assemblies irradiated in a MTR)

References : <1> Certificate of approval reference USA/0565/B(U)F-96, revision 2
<2> Safety Analysis Report reference DOS-06-00032593
<3> Safety Analysis Report reference DOS-07-00084417
<4> French competent authority certificate F/357/B(U)F-96 (Cr)
<5> TN International letter CEX-08-00135335, dated December 30th, 2008
<6> French competent authority certificate F/357/B(U)F-96 (Ct)

Dear Mr Boyle,

On December 13th, 2007, you issued the certificate <1> based on the revision 1 of the Safety Analysis Report (SAR) <2> (which English version is <3>) to validate the French certificate <4> for the package consisting of a TN-MTR packaging loaded with either a MTR-52S or MTR-52SV2 baskets and their authorized radioactive contents (fuel assemblies irradiated in Material Testing Reactors (MTR)). This certificate will expire on December 31st, 2010.

On December 30th, 2008, by our letter <5>, we informed you that we had applied for an extension of the French certificate <4> in order to authorize the transport of:

1. failed fuel elements,
2. unassembled fuel plates,
3. MTR content with new characteristics as described in appendix to this letter, in the TN-MTR packaging loaded with either a MTR-52S or a MTR-52SV2 basket.

TN INTERNATIONAL

Etablissement Saint-Quentin-en-Yvelines
(Siège social)
1, rue des Hérons
78180 Montigny-le-Bretonneux
Tél. : +33 (0) 1 39 48 75 00
Fax : +33 (0) 1 39 48 75 01
RCS Versailles SIRET 602 039 299 00063

Etablissement Cherbourg
25, avenue de Tourville
BP 41
50120 Equeurdreville
Tél. : +33 (0) 2 33 02 33 80
Fax : +33 (0) 2 33 02 33 93
RCS Cherbourg SIRET 602 039 299 00071

Etablissement Chusclan
Lieu-dit La Tourette
BP 64182
30204 Bagnols-sur-Cèze Cedex
Tél. : +33 (0) 4 66 90 33 00
Fax : +33 (0) 4 66 90 32 03
RCS Nîmes SIRET 602 039 299 00048





As mentioned in our letter <5>, this extension is intended for use in the frame of the GTRI program (come back of MTR fuel elements into Savannah River site) with transport of MTR elements from Indonesia to Savannah River site. As the time schedule before this transport is tight, the French competent Authority recently issued in a first step a new certificate taking only into account the modifications of the contents listed in point 3 above and recalled in appendix to this letter; this extension is sufficient to perform the transport from Indonesia to Savannah River site.

So, on March 12th, 2009, the French competent Authority issued the French certificate <6> for the package consisting of a TN-MTR packaging loaded with either a MTR-52S or MTR-52SV2 baskets and their authorized radioactive contents #4 and #9. This certificate will expire on December 31st, 2010.

This renewed French certificate <6> is based on French Safety Analysis Report <2> at the revision 2. By our letter <5>, we had already sent you the revision 1 of the Safety Analysis Report <3>, which is the English version of the French Safety Analysis Report <2> at the revision 2, restricted to the MTR-52S and MTR-52SV2 baskets.

Due to the short time left in order to support the Indonesian fuel transport, we hereby apply for the extension of the certificate of approval <1> to authorize the transport of MTR content #9 with new characteristics, as described in appendix to this letter, in the TN-MTR packaging loaded with a MTR-52SV2 basket.

Please note that the corresponding new revision of the Safety Analysis Report includes the updating translated chapters relative to "SEC" lid as requested by DOT in the last expertise (the certificate <1> is restricted to standard lid). We hereby apply again for the extension of the certificate of approval <1> for use of "SEC" lid. However, the review and revalidation of the French certificate <6> shall be considered as a priority, and the review of the "SEC" lid can then be considered in a second step.

Should you require further information, please feel free to contact me.

Best regards,

Jean-François MALHAIRE
Transport & Engineering Section

A handwritten signature in blue ink, appearing to read 'J. Malhaire', written over the printed name and title.

Enclosure: French certificate of approval F/357/B(U)F-96 (Ct) and its English translation

Copy : P. Malesys – TN International

C. Anne – TN Inc

APPENDIX

NEW CONTENTS CHARACTERISTICS

Basket	Contents					
		Fuel Element	Enrichment	Number of compartments occupied	U ²³⁵ Mass (g)	V/U (g/cm ³)
MTR-52S or MTR-52SV2	Contents: #4 or #9 (certificates <1> and <4>)	U ₃ O ₈ /Al	≤ 21 %	≤ 52	≤ 200	≥ 4
	Contents: #4 or #9 (certificate <6>)	U ₃ O ₈ /Al	≤ 21 %	≤ 52 ≤ 50	≤ 380 ≤ 640	≥ 4 ≥ 2.5

Diffusion complémentaire

Diffusion interne (sans P.J.) :

D4S	L. TRAORE (Chrono) P. MALESYS B. DESNOYERS L. MILET
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DT	C. VALLENTIN
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BLA	D. OHAYON L. MARIETTE F. COTTET C. GRANDHOMME J-F. MALHAIRE
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ETABLISSEMENT SUD-EST	L. VIALLO
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Diffusion interne (avec P.J.) :

SG	T. FORESTIER
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