
#### Comments by Reviewer

<table>
<thead>
<tr>
<th>Comment No.</th>
<th>Para/Line No.</th>
<th>Proposed new text</th>
<th>Reason</th>
<th>Accepted</th>
<th>Accepted, but modified as follows</th>
<th>Rejected</th>
<th>Reason for modification/rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>J/01</td>
<td>Throughout</td>
<td>“Radiation level” should be replaced with “dose rate”.</td>
<td>In SSR-6 2018 Edition, “radiation level” is replaced with “dose rate”.</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WNTI/1</td>
<td>All</td>
<td>“radiation level” should be replaced by “dose rate”.</td>
<td>“radiation level” has been replaced in SSR-6 Rev.1</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J/02</td>
<td>2.2</td>
<td>\textit{Dose rate} \textit{Dose rate, which has replaced the term 'radiation level' in the previous editions of the Regulations, shall mean the ambient dose equivalent or the directional dose equivalent, as appropriate, per unit time, measured at the point of interest.}</td>
<td>“Dose rate” should be added to the definitions for user friendliness.</td>
<td>X</td>
<td></td>
<td></td>
<td>“Radiation level” was not included in previous edition. All the definitions are taken from SSR-6</td>
</tr>
<tr>
<td>J/03</td>
<td>All types, corresponds to SSR-6 paras 531–535 and 539</td>
<td>“Markings” should be replaced with “marks”. 531–533 All package markings are required to be legible and durable, and are required to be on the outside of the packaging. 531 Each package is required to be marked with an identification of either the consignor or the consignee, or both. All markings are required to be legible and durable, and are required to be on the outside of the packaging. 539 The labels are required to be fixed to two opposite sides of the outside of the package or overpack, or on all four sides of a freight container or tank. The labels are not allowed to cover the markings specified in paras 531–537 of the Regulations.</td>
<td>Terminology change incorporated to SSR-6 2018 Edition.</td>
<td>X</td>
<td></td>
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</tbody>
</table>

UN2908: P.12(531–533)  
UN2909: P.15(531–533)
Fissile nuclides and fissile material  

Fissile nuclides shall mean uranium-233, uranium-235, plutonium-239 and plutonium-241. Fissile material shall mean a material containing any of these fissile nuclides. Excluded from the definition of fissile material are the following: (a) Natural uranium or depleted uranium that is unirradiated;

| 2.2 | To match definitions from the Regulations for the Safe Transport of Radioactive Material 2018 Edition | X |
| F/02 | 2.2 | **Package**  
Package shall mean the complete product of the packing operation, consisting of the **packaging** and its contents prepared for transport. The types of packages covered by the Regulations that are subject to the activity limits and material restrictions of Section IV of the Regulations and meet the corresponding requirements are:  
(a) *Excepted package*;  
(b) *Industrial package Type 1 (Type IP-1)*;  
(c) *Industrial package Type 2 (Type IP-2)*;  
(d) *Industrial package Type 3 (Type IP-3)*;  
(e) *Type A package*;  
(f) *Type B(U) package*;  
(g) *Type B(M) package*;  
(h) *Type C package.*  
Packages containing fissile material or uranium hexafluoride are subject to additional requirements. | To match definitions from the Regulations for the Safe Transport of Radioactive Material 2018 Edition | X |
| --- | --- | --- | --- | --- |
| F/03 | 2.2 | **Radioactive material**  
Radioactive material shall mean any material containing radionuclides where both the activity concentration and the total activity in the consignment exceed the values specified in paras 402–407 of the Regulations. | To match definitions from the Regulations for the Safe Transport of Radioactive Material 2018 Edition | X |
| F/04 | 2.2 | **Unilateral approval**  
Unilateral approval shall mean an approval of a design that is required to be given by the competent authority of the country of origin of the design only. | To match definitions from the Regulations for the Safe Transport of Radioactive Material 2018 Edition | X |
<table>
<thead>
<tr>
<th>WNTI/2</th>
<th>All, 531–535 539</th>
<th>“markings” should be replaced by “marks” appropriately.</th>
<th>“markings” and “marks” are used differently in SSR-6 Rev.1</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>J/04</td>
<td>All types, corresponding to SSR-6 para. 566(b)</td>
<td>“Conveyances” should be replaced with “vehicles”. 566(b) Limits on the dose rate radiation levels from freight containers and vehicles conveyances. See para. 573(b) and (c) of the Regulations for exceptions.</td>
<td>Requirement change incorporated to SSR-6 2018 Edition.</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WNTI/3</th>
<th>All, 566(b)</th>
<th>“conveyances” should be replaced by ”vehicles”</th>
<th>“conveyances” is changed to ”vehicles” in 566(b) of SSR-6 Rev.1.</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/05</td>
<td>TABLE 1.</td>
<td>TABLE 1. UN NUMBERS AND RELATED PARAGRAPH NUMBERS OF THE REGULATIONS (2018 EDITION)</td>
<td>To refer to the new 2018 edition of the Regulations</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/4</td>
<td>Table 1</td>
<td>Add para 110 for UN2910 and UN2911</td>
<td>For those two excepted packages, in case of radioactive material having other hazards, the classification rules as applicable in the relevant transport regulations for dangerous goods may result in the use of another UN number.</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/5</td>
<td>Table 1</td>
<td>Add para 515 for UN3507</td>
<td>Paragraph 515 makes paragraph 580 applicable for transport by post, which one forbids transport of UF₆ by post.</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/6</td>
<td>Table 1</td>
<td>On line “3328” replace paras “431-433” by paras “432, 433”</td>
<td>Para 431 is not specific to UN3328 and does not contain limits or requirement for choice of the UN number.</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/7</td>
<td>Table 1</td>
<td>On line “2977” replace “417-420” by “417, 418, 419(a), 420”</td>
<td>In para 419, only 419(a) is applicable.</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/8</td>
<td>FIG.1</td>
<td>In all 8 diamond boxes with “Fissile (222, 417)”: “Fissile” should be “FISSILE” (in capital letters), and note (5) shall be added in each of these boxes (“FISSILE”(5) (222, 417))</td>
<td>To avoid confusion between FISSILE and fissile- excepted (see para 417), and to assign the note (5)</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/9</td>
<td>FIG.1</td>
<td>Rectangular box for SCO-I as UN3326: the words “or unpackaged (520)” shall be deleted</td>
<td>FISSILE cannot be unpackaged (only fissile-excepted can be</td>
<td>X</td>
</tr>
<tr>
<td>F/06</td>
<td>Page 9</td>
<td>Transport Guidance 2015 Revision SSG - 33</td>
<td>Unpackaged) see paras 520(e) and 417(e)</td>
<td>The arrow has to be turn from 426 to UN2909.</td>
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<tr>
<td>F/07</td>
<td>Page 9</td>
<td>Rectangular box after the choice “by air – Yes”</td>
<td>To be consistent with the SCO-I UN2913 box, the SCO-III UN2913 box should be flaged “Unpackaged (520)”</td>
<td>X</td>
</tr>
<tr>
<td>WNTI/10</td>
<td>FIG. 1</td>
<td>In Figure 1, in fissile boxes “(5)” must be added</td>
<td>To assign the note (6)</td>
<td>X</td>
</tr>
<tr>
<td>CDN/1</td>
<td>In Figure 1, in Activities UN2913 LDRM box “(6)” must be added</td>
<td>In the footnote (5) is explained but not shown in the box</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>CDN/2</td>
<td>In Figure 1, in Activities UN2913 LDRM box “(6)” must be added</td>
<td>In the footnote (6) is explained but not shown in the box</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>WNTI/11</td>
<td>FIG.1</td>
<td><strong>Rectangular box for UN3331 and UN2919: use bolted characters as done for other UN numbers</strong></td>
<td><strong>Harmonization</strong></td>
<td>X</td>
</tr>
<tr>
<td>WNTI/12</td>
<td>SCHEDULES FOR: UN 2908 page 11, UN 2909 page 14, UN 2910 page 17, UN 2911 page 22, UN 2912 page 23, UN 3321 page 86, UN 3322 page 93, UN 3332 page 172, UN 3507 page 187</td>
<td>502, 503(a), (e)</td>
<td>The schedules should be mutually consistent whether subpars are cited in chapter 1 “General Provisions” or not. If so, than “(a), (e)” should be added.</td>
<td>X</td>
</tr>
</tbody>
</table>
| WNTI/13 | SCHEDULES FOR: UN 2908 page 12, UN 2909 page 15, UN 2910 page 19, UN 2911 page 22, UN 2912 page 26, UN 2913 page 33, UN 2915 page 40, UN 2916 page 47, 502, 503(a) … | Before each shipment of any package, the following requirements apply:  
(i) It is required to ensure that each package contains neither radionuclides different from those specified for the package design; nor contents in a form, or physical or chemical state, different from those specified for the package design.  
(ii) It is required to ensure that all the requirements specified in the relevant provisions of the Regulations and in the applicable certificates of approval have been fulfilled.  
(iii) It is required to ensure that lifting attachments that do not meet the requirements of Transport Regulations and applicable certificates of approval are fulfilled. | Each chapter 7 “Requirements before shipment” ignores that by SSR-6 the former para. 502 of TS-R-1 was changed and also a new para was added. Due to this, rewriting should be performed as proposed. | X | (i) The content of the package is in accordance with the specifications of design regarding the radionuclide, its form and physical or chemical state.  
(ii) All the relevant requirements of Transport Regulations and applicable certificates of approval are fulfilled. |
<table>
<thead>
<tr>
<th>SCHEDULES FOR: UN 2908 page 12, UN 2909 page 15, UN 2910 page 19, UN 2912 page 24</th>
<th>requirements of para. 608 of the Regulations have been removed or otherwise rendered incapable of being used for lifting the package, in accordance with para. 609 of the Regulations. (iv) …</th>
<th>UN 2917 page 55, UN 2919 page 63, UN 2977 page 72, UN 2978 page 81, UN 3321 page 89, UN 3322 page 96, UN 3323 page 103, UN 3324 page 111, UN 3325 page 119, UN 3326 page 127, UN 3327 page 135, UN 3328 page 143, UN 3329 page 151, UN 3330 page 159, UN 3331 page 167, UN 3332 page 175, UN 3333 page 182, UN 3507 page 189</th>
<th>(iii) Provisions on lifting attachments are complied with.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNTI/14</td>
<td>502, 503(a), (c) … (iv) For packages intended to be used for shipment after storage, it is required to take into account ageing mechanisms. New para 503 (e) should be added to the schedule.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>WNTI/15</td>
<td>SCHEDULES FOR: UN 2912 page 25, UN 2913 page 32, UN 2915 page 39, UN 2916 page 46, UN 2917 page 54, UN 2919 page 63, UN 2977 page 71, UN 2978 page 80, UN 3321 page 88, UN 3322 page 95, UN 3323 page 102, UN 3324 page 110, UN 3325 page 119, UN 3326 page 126.</td>
<td>536A Any mark in accordance with Paragraphs 534(a) and (b) and 535(c) of the Regulations that does not relate to the UN number and proper shipping name assigned to the consignment is required to be removed or covered.</td>
<td>This advice should be more specific to reflect the Regulations.</td>
</tr>
<tr>
<td>WNTI/16</td>
<td>SCHEDULES FOR: UN 2912 page 26, UN 3327 page 134, UN 3328 page 142, UN 3329 page 150, UN 3330 page 158, UN 3332 page 174, UN 3333 page 181</td>
<td>502, 503(a), (e) … (iv) For packages intended to be used for shipment after storage, it is required to take into account ageing mechanisms.</td>
<td>As WNTI/14 but only text of advice was missing.</td>
</tr>
<tr>
<td>WNTI/17</td>
<td>SCHEDULES FOR: UN 2913 page 30, UN 2915 page 37</td>
<td>502, 503(a), (e)</td>
<td>As WNTI/12 but only (e) was missing</td>
</tr>
<tr>
<td>WNTI/18</td>
<td>SCHEDULES FOR: UN 2917 page 52, UN 2919 page 60, UN 3323 page 100</td>
<td>502, 503(a)-(c), (e)</td>
<td>As WNTI/12</td>
</tr>
<tr>
<td>WNTI/19</td>
<td>SCHEDULES FOR: UN 2919 pages 63,64</td>
<td>502, 503(a)-(c), (e) … (i) For packages intended to be used for shipment after storage, it is required to take into account ageing mechanisms.</td>
<td>As WNTI/14</td>
</tr>
<tr>
<td>WNTI/20</td>
<td>SCHEDULES FOR: UN 2977 page 72, UN 3329 pages 151, 152, UN 3330 page 159</td>
<td>502, 503(a)-(e) … (i)… … (vii)…</td>
<td>For consistency, sorted list by Roman numerals instead of small letters</td>
</tr>
<tr>
<td>WNTI/21</td>
<td>SCHEDULES FOR: UN 2977 page 72</td>
<td>502, 503(a)-(e) … (vi) For packages containing fissile material, the measurement specified in para. 677(b) of the Regulations and the tests to demonstrate closure of each package as specified in para. 680 of the Regulations are required to be performed where applicable. (vii) …</td>
<td>To be consistent with fissile requirements of para. 503 (d)</td>
</tr>
<tr>
<td>CDN/5</td>
<td>Applicable to UN 2977, 3329, 3330 schedules</td>
<td>Use the same bullet as other schedules to explain the details of paras requirements by i, ii, iii … instead of (a), (b) …</td>
<td>For consistency. This problem existed in the 2015 edition of schedules too.</td>
</tr>
<tr>
<td>WNTI/22</td>
<td>SCHEDULES FOR: UN 3324 page 108, UN 3325 page 116, UN 3326 page 124, UN 3327 page 132.</td>
<td>502, 503(a), (d), (e)</td>
<td>As WNTI/12</td>
</tr>
<tr>
<td>UN 3333</td>
<td>page 179</td>
<td></td>
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<tr>
<td>WNTI/23</td>
<td>SCHEDULES For : UN 3331 page 167</td>
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<tr>
<td></td>
<td>502, 503</td>
<td></td>
<td></td>
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<td></td>
<td>…</td>
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<tr>
<td></td>
<td>(vii) For packages intended to be used for shipment after storage, it is required to take into account ageing mechanisms.</td>
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<td>As WNTI/14</td>
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<td></td>
<td>X</td>
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| WNTI/24 | SCHEDULE For UN 2908 1 Para 110, 507 |
|         | Add the following warning: |
|         | “Unless adequate measures have been taken to nullify any subsidiary hazard of the radioactive material previously transported, transport regulations applicable to dangerous goods may require the use another UN number and to transport the empty packaging as required for this other UN number.” |
|         | See special provision 290 in Chapter 3.3 of UN Model Regulations and para 4.1.1.11 of the UN Model Regulations |
|         | X         |

| F/08 | SCHEDULE For UN2908 / §515 |
|      | Requirements — general. |
|      | If the excepted package contains fissile material, one of the fissile exceptions provided by para. 417 is required to be applied. |
|      | Fissile material excepted under para. 417(f) is required to comply with para. 606 and requires multilateral approval by the competent authority in each State. |
|      | To take into account SSR-6 modification (§ 515) |
|      | The sentences referring to para. 417 have been deleted from the SSR-6 para. 515. Plus, it is redundant with para. 417. |
|      | (similar comments: UN2910 and UN2911 and UN3507 § 515) |
|      | X         |

<p>| F/09 | UN2908 / §516 |
|      | The dose rate radiation level at any point on the external surface of an excepted package is not allowed to exceed 5 μSv/h. |
|      | Modification of para. 516 of SSR-6 (“dose rate” instead of “radiation level”). |
|      | (similar comments: all UN numbers) |
|      | X         |
| F/10  | UN2908 / §531-533 | All package markings are required to be legible and durable, and are required to be on the outside of the packaging. | To take into account SSR-6 modification (§ 531) (similar comments: all U numbers) | X |
| WNTI/25 | SCHEDULE FOR UN 2908 1 Para 515 | “If the excepted package empty packaging is contaminated with fissile material” | To use more appropriate wording | X | See F/08 |
| CDN/3 | In schedule for UN 2908 | “536A” must be added | When a consignor wants to return a package that received under Type A, B(U), …, as an Empty package; it is important to remove the previous label. | X |
| WNTI/26 | SCHEDULE FOR UN 2908 2 Para 417 | If the package empty packaging is contaminated with fissile material Fissile material excepted under para. 417(f) is required to comply with para. 606 and requires multilateral approval by the competent authority in each State. | To use more appropriate wording To harmonize with text in schedule relative to UN2910 | X |
| WNTI/27 | SCHEDULE FOR UN 2908, 2909, 2910, 2911 and 3507 4 | 4. MAXIMUM RADIATION LEVEL DOSE RATE 516 The radiation level dose rate at any point … | Radiation level shall be replaced by dose rate in those five schedules | X |
| WNTI/28 | SCHEDULE FOR UN 2908 | The text provided is relative to para 507 only. After the text relative to 507, add the following text: To harmonize with other schedules applicable to excepted packages. | X |</p>
<table>
<thead>
<tr>
<th>8.2 Para 507, 545</th>
<th>545 <strong>Consignor’s responsibilities.</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WNTI/29</strong></td>
<td>SCHEDULE FOR UN 2908 8.2 Para 507</td>
<td>After the text relative to 507, add the following text: 515 <strong>Labelling for radioactive contents is not applicable.</strong></td>
<td>For highlighting the fact that there is no radioactive label required on an excepted package.</td>
<td></td>
<td>X</td>
<td>Section 8.2 refers to placarding. The proposed text was added to section 6 “Marking and Labelling”</td>
</tr>
<tr>
<td><strong>WNTI/30</strong></td>
<td>SCHEDULE FOR UN 2908 8.4 Para 511</td>
<td>Before the text relative to para 511, add the following: WNTI/30 Access restriction and assessment of contamination in case of damaged or leaking package.</td>
<td>Requirements of para 510 are also applicable to excepted packages</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **WNTI/31** | SCHEDULE FOR UN 2908 8.5 Para 505 | **8.5. Transport of other goods - Decontamination** 504 A package shall not contain any items other than those that are necessary for the use of the radioactive material. 505 Tanks, intermediate bulk containers, packagings, overpacks and freight containers used for the transport of radioactive material are not allowed to be used for storage or transport of other goods, unless decontaminated below one tenth of the levels specified in paras 508 and 509 of the Regulations. 509 Non-fixed contamination on the external and internal surfaces of overpacks, freight containers and conveyances shall not exceed the limits specified in para. 508. | Inappropriate title for this section. Para 504 shall be added as it is applicable to all excepted packages. Wording relative to para 505 is inappropriate. Requirement relative to the allowable contamination of the transport means is missing. |  | X | 1. Para. 504 to be included under section “1. General Provisions”, to avoid modifying the structure of the guide by including a new title “Transport of other goods” (For all other UN numbers para. 504 to be moved from “2. Contents…” to section “1. General Provisions”) 2. Para. 505 is so far included in Section “8.5. Decontamination”. To be extended to all UN numbers as a recommendation of
good practice in case of using the same devices to transport other goods and kept in the same place.
3. Para. 509 to be kept in “3. Contamination” and to be extended to all UN numbers.

| WNTI/32 | SCHEDULE FOR UN 2908 8.6 Para 427(a), (b) | These paragraphs and the relative text should be deleted, since these paragraphs are already considered in section 2 of the schedule | X |
| WNTI/33 | SCHEDULE FOR UN 2909 1 Para 110, 507 | Complete as follows: For radioactive material having subsidiary hazard, transport regulations applicable to dangerous goods may require the use of another UN number and to transport the package as required for this other UN number. |
| WNTI/34 | SCHEDULE FOR UN 2909 6 Para 507 | After the text relative to 507, add the following text: 515 Labelling for radioactive contents is not applicable. | X |
| WNTI/35 | SCHEDULE FOR UN 2909 8.4 Para 511 | Before the text relative to para 511, add the following:  
510 Access restriction and assessment of contamination in case of damaged or leaking package. | Requirements of para 510 are also applicable to excepted packages | X |  |
| WNTI/36 | SCHEDULE FOR UN 2909 8.5 Para 511 | Delete “Not applicable” and add:  
8.5. Transport of other goods - Decontamination  
504 A package shall not contain any items other than those that are necessary for the use of the radioactive material.  
505 Tanks, and intermediate bulk containers, packagings, overpacks and freight containers used for the transport of radioactive material are not allowed to be used for storage or transport of other goods, unless decontaminated below one tenth of the levels specified in paras 508 and 509 of the Regulations.  
509 Non-fixed contamination on the external and internal surfaces of overpacks, freight containers and conveyances shall not exceed the limits specified in para. 508. | Paragraphs 504 (transport of other goods), 505 (use of transport means for transport of other goods) and 509 (decontamination of transport means) are applicable to this excepted package. | X | See WNTI/31 |
| WNTI/37 | SCHEDULE FOR UN 2910 1 Para 110, 507 | Complete as follows:  
For radioactive material having subsidiary hazard, transport regulations applicable to dangerous goods may require the use of another UN number and to transport the package as required for this other UN number. | To warn that, if the radioactive material in an excepted package has other hazardous properties, generally the transport regulations applicable to dangerous goods specifies to use another UN number and to transport the package as required for this other UN number. | Where the packaging requirements specified by relevant international standards organizations for a subsidiary hazard are more severe than those stated in the Transport Regulations for the radiological hazard, the requirements for the subsidiary hazard will set the standard. | In accordance with 507.5 SSG-26 |
| F/11 | UN2910 / §515 | Requirements — general. If the excepted package contains fissile material, one of the fissile exceptions provided by para. 417 is required to be applied. Fissile material excepted under para. 417(f) is required to comply with para. 506 and requires multilateral approval by the competent authority in each State. | The sentences referring to para. 417 have been deleted from the SSR-6 para. 515. It is redundant with para. 417. | X |
| F/12 | UN2910 / §4 / 516 | MAXIMUM DOSE RATE radiation level The dose rate radiation level at any point on the external surface of an excepted package is not allowed to exceed 5 μSv/h. | Modification of para. 516 of SSR-6 (“dose rate” instead of “radiation level”). | X |
| WNTI/38 | SCHEDULE FOR UN 2910 6 Para 507 | After the text relative to 507, add the following text: 515 Labelling for radioactive contents is not applicable. | To highlight the fact that there is no radioactive label required on an excepted package. | X |
| WNTI/39 | SCHEDULE FOR UN 2910 8.4 Para 511 | Before the text relative to para 511, add the following: 510 Access restriction and assessment of contamination in case of damaged or leaking package. | Requirements of para 510 are also applicable to excepted packages. | X |
| WNTI/40 | SCHEDULE FOR UN 2910 8.5 Para 511 | Delete “Not applicable” and add: 8.5. Transport of other goods - Decontamination 504 A package shall not contain any items other than those that are necessary for the use of the radioactive material. 505 Tanks, and intermediate bulk containers, packagings, overpacks and freight containers used for the transport of radioactive material are not allowed to be used for storage or transport of other goods, unless decontaminated below one tenth of the levels specified in paras 508 and 509 of the Regulations. | Paragraphs 504 (transport of other goods), 505 (use of transport means for transport of other goods) and 509 (decontamination of transport means) are applicable to this excepted package. | X | See WNTI/31 |
509  Non-fixed contamination on the external and internal surfaces of overpacks, freight containers and conveyances shall not exceed the limits specified in para. 508.

| WNTI/41 | SCHEDULE FOR UN 2911 1 Para 110, 507 | Complete as follows: For radioactive material having subsidiary hazard, transport regulations applicable to dangerous goods may require the use of another UN number and to transport the package as required for this other UN number. | To warn that, if the radioactive material in an excepted package has other hazardous properties, generally the transport regulations applicable to dangerous goods specifies to use another UN number and to transport the package as required for this other UN number. | Where the packaging requirements specified by relevant international standards organizations for a subsidiary hazard are more severe than those stated in the Transport Regulations for the radiological hazard, the requirements for the subsidiary hazard will set the standard. | In accordance with 507.5 SSG-26 |

| F/13 | UN2911 / §515 | Requirements — general. If the excepted package contains fissile material, one of the fissile exceptions provided by para. 417 is required to be applied. Fissile material excepted under para. 417(f) is required to comply with para. 606 and requires multilateral approval by the competent authority in each State. | The sentences referring to para. 417 have been deleted from the SSR-6 para. 515. It is redundant with para. 417 |  |

| F/14 | UN2911 / §423(a); 4.; § 516 | The dose rate radiation level (…) | Modification of para. 423(a) of SSR-6 (“dose rate” instead of “radiation level”). | X |

| WNTI/42 | SCHEDULE FOR UN 2911 6 Para 507 | After the text relative to 507, add the following text: 515  Labelling for radioactive contents is not applicable. | To highlight the fact that there is no radioactive label required on an excepted package. | X |
| WNTI/43 | SCHEDULE FOR UN 2911 8.4 Para 511 | Before the text relative to para 511, add the following: **510 Access restriction and assessment of contamination in case of damaged or leaking package.** | Requirements of para 510 are also applicable to excepted packages | X |
| WNTI/44 | SCHEDULE FOR UN 2911 8.5 Para 511 | Delete “Not applicable” and add: **8.5. Transport of other goods - Decontamination** 504 A package shall not contain any items other than those that are necessary for the use of the radioactive material. 505 Tanks, and intermediate bulk containers, packagings, overpacks and freight containers used for the transport of radioactive material are not allowed to be used for storage or transport of other goods, unless decontaminated below one tenth of the levels specified in paras 508 and 509 of the Regulations. 509 Non-fixed contamination on the external and internal surfaces of overpacks, freight containers and conveyances shall not exceed the limits specified in para. 508. | Paragraphs 504 (transport of other goods), 505 (use of transport means for transport of other goods) and 509 (decontamination of transport means) are applicable to this excepted package. | X |
| F/15 | UN2912 / §508, 509 | Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required … | To take into account SSR-6 modification (§ 509) (similar comments: UN2912 § 514, UN2915, UN3328, UN3330) | X |
| F/16 | UN2912 / §514 | The requirements of paras 508 and 509 of the Regulations on non-fixed contamination do not apply to the internal surfaces of a freight container, tank, intermediate bulk container or conveyance dedicated… | To take into account SSR-6 modification (§ 514) | X | See WNTI/31 |
| F/17 | UN2912 / 4. / §526-528, 575 | MAXIMUM DOSE RATE radiation level
(i) The dose rate radiation level for a package (…)
(ii) The maximum dose rate radiation level at any point (…)
(iii) The maximum dose rate radiation level at any point (…)

Modification of SSR-6 ("dose rate" instead of "radiation level"). | X |

| F/18 | UN2912 / §531 | Each package is required to be marked with an identification of either the consignor or the consignee, or both. All markings are required to be legible and durable, and are required to be on the outside of the packaging.

To take into account SSR-6 modification (§ 531) | X |

| F/19 | UN2912 / §539 | The labels are required to be fixed to two opposite sides of the outside of the package or overpack, or on all four sides of a freight container or tank. The labels are not allowed to cover the markings specified in paras 531–537 of the Regulations.

To take into account SSR-6 modification (§ 539) | X |

| F/20 | UN2912 / §573 (a)-(c) | For transport by rail and by road: for consignments under exclusive use, the dose rate is not allowed…

Modification of SSR-6 ("dose rate" instead of "radiation level"). | X |

| F/21 | UN2912 / §575 | For transport by vessels: packages or overpacks having a surface dose rate greater than 2 mSv/h…

Modification of SSR-6 ("dose rate" instead of "radiation level"). | X |

| F/22 | UN2912 / §579 | For transport by air: packages or overpacks having a surface dose rate greater than 2 mSv/h are not allowed…

Modification of SSR-6 ("dose rate" instead of "radiation level"). | X |

| F/23 | UN2912 / §566 (b) | Limits on the dose rate from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions.

Modification of SSR-6 ("dose rate" instead of "radiation level"). | X |

| F/24 | UN2912 / §514 | A freight container, intermediate bulk container—or conveyance dedicated to the transport…

To take into account SSR-6 modification (§ 514) | X |

| F/25 | UN 2913 520 | LSA-I, SCO-I and SCO-III may be transported unpackaged under the conditions as stated in para. 520 of the Regulations

LSA-I is not objet of UN2913. | X |

| F/26 | UN 2913 414, 517 § 4. | (...) dose rate radiation level (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/27 | UN 2913  526-528, 575 | (i) The **dose rate radiation level** for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, except when transported under exclusive use.  
(ii) The maximum **dose rate radiation level** at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea\(^1\).  
(iii) The maximum **dose rate radiation level** at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h. | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
“1” is in exponent. | X |
| F/28 | UN 2913  521, Table 5 | **LSA material and SCO, except as otherwise specified in para. 520**, are required to be packaged in accordance with Table 5 of the Regulations. | LSA materials is not objet of UN2913.  
Specified para. 520 for SCO transported “unpackaged”. | X |
| F/29 | UN 2913  537 | When the **SCO-I object** is contained in receptacles or wrapping and is transported under exclusive use, **as permitted by para.520**, it may be marked “RADIOACTIVE SCO-I”. | Para. 527 mention only SCO-I.  
SCO-I is not material but an object.  
Specified para. 520 for SCO transported “unpackaged”. | X |
| F/30 | UN 2913  573 (a)-(c) | For transport by rail and by road: for consignments under exclusive use, the **dose rate radiation level** is not allowed to exceed: | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/31 | UN 2913  572, Figs 6, 7 | Where the consignment in or on a road or rail vehicle is unpackaged UN 2913 SCO-I or SCO-III only, or where an exclusive use consignment is packaged UN 2913 SCO-I or SCO-II only, and no other UN number commodities are present, the UN number “UN 2913” is required to be displayed, in black digits not less than 65 mm high, either in the lower half of the placard shown in Fig. 6 of the Regulations against the white background or on the | Para. 572 is also applicable for SCO-III. | X |
placard shown in Fig. 7 of the Regulations. If the placard shown in Fig. 7 of the Regulations is used, it is required to be fixed close to each main placard.

| F/32 | UN 2913 309 | In the event of non-compliance with any limit in the Regulations applicable to dose rate or contamination, appropriate actions are required to be taken as soon as possible, including communication and remedy. | Para. 309 precises that the non-compliance with Regulations is for limits applicable to dose rate or contamination. | X | Applicable to all the 26 Schedules. |
| J/05 | UN2913 | Requirements specific to the shipment of SCO-III are better to be distinguished, e.g., place them in a separate section. (No text proposed.) | Requirements for the shipment of SCO-III include items specific to SCO-III. | X | One of the strengths of SSG-33 is to have the same structure for the 26 Schedules, which makes it easier to follow. |
| F/33 | UN2915502, 503(a) | 502, 503(a), 503(e) | The new paragraph 503(e) has been added in the Regulations | X | |
| F/34 | 508,509 | Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required to be kept as low as practicable and is not allowed to exceed the following limits, when averaged over any area of 300 cm² of any part of the surface:
(a) Beta, gamma and low toxicity alpha emitters, 4 Bq/cm²;
(b) All other alpha emitters, 0.4 Bq/cm². | Consistent with para. 509 | X | |
| F/35 | 526–528, 575 | 4. MAXIMUM DOSE RATE radiation level
(i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, except when transported under exclusive use.
(ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except Modification of para. 526–528, 575 of SSR-6 (“dose rate” instead of “radiation level”).
“1” is in exponent. | X | |
when transported under exclusive use by rail or by road, or under exclusive use by sea.<sup>1</sup> (iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h.

1 Packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h carried in or on a vehicle under exclusive use may be transported by vessels in accordance with Table 10 of the Regulations, footnote (a), provided that such packages or overpacks are not removed from the vehicle at any time while on board the vessel.

| F/36 | 531-535 | All markings are required to be legible and durable, and are required to be on the outside of the packaging. | Modification of para. 531-535 of SSR-6 (“marks” instead of “markings”). | X |
| F/37 | 539 | The labels are required to be fixed to two opposite sides of the outside of the package or overpack, or on all four sides of a freight container. The labels are not allowed to cover the markings specified in paras 531–536 of the Regulations. | Modification of para. 539 of SSR-6 (“marks” instead of “markings”). | X |
| F/38 | 573(a)–(c) | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed to exceed: ... | Modification of para. 573 of SSR-6 (“dose rate” instead of “radiation level”). | X |
| F/39 | 575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10 of the Regulations, footnote (a), are not allowed to be transported as UN 2915. Consistent with para. 575: may be transported under special arrangement. | X | See F/117 |
| F/40 | 576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI and dose rate radiation level—provided that the conditions stated in para. 576 of the Regulations are met. | Modification of para. 576 of SSR-6 (“dose rate” instead of “radiation level”). | X |
| F/41 | 579 | For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement. | Modification of para. 579 of SSR-6 (“dose rate” instead of “radiation level”). | X |
| F/42 | 566(b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions. | Modification of para. 566(b) of SSR-6 (“dose rate” instead of “radiation level”). | X |
| F/43 | UN 2916 561 | Possession of a copy of each certificate and possession of a copy of the instructions for (a) with regard to the proper closing of the package and (b) other preparations for shipment. | No item (a) nor (b) in para 561, proposition of a new formulation without (a) nor (b) that could refer to para 561 but do not. | X |
| F/44 | UN 2916 802(a), 805-806, 808-810 | Package design requirements – Approval of Fissile-excepted material classification – competent authority approval | Addition of mention of 805-806 for fissile-excepted material. | X |
| F/45 | UN 2916 822-823 | Transitional arrangement for packages excepted for fissile material under the 2009 Edition of these Regulations and for special form radioactive material approved under the 1985, 1985 (As Amended 1990, 1996 Edition, 1996 Edition (Revised), 1996 (As Amended 2003), 2005, 2009 and 2012 Editions of these Regulations. | Addition of mention of 822 (fissile excepted) which is applicable | X |
| F/46 | UN 2916 526-528, 575 | 4. MAXIMUM DOSE RATE radiation level (i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, except when transported under exclusive use. (ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea. | Expression “radiation level” is replaced by “dose rate” in SSR-6. “1” is in exponent. | X |
(iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack

1 Packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h carried in or on a vehicle under exclusive use may be transported by vessels in accordance with Table 10 of the Regulations, footnote (a), provided that such packages or overpacks are not removed from the vehicle at any time while on board the vessel.

F/47  UN 2916 532, Table 9  All markings are required to be legible and durable, and are required to be on the outside of the packaging.  Modification of para. 539 of SSR-6 (“marks” instead of “markings”). X

F/48  UN 2916 573  For consignments under exclusive use, the dose rate radiation level is not allowed to exceed:  Expression “radiation level” is replaced by “dose rate” in SSR-6. X

F/49  UN 2916 575  For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10 of the Regulations, footnote (a), are not allowed to be transported.  Expression “radiation level” is replaced by “dose rate” in SSR-6. X

F/50  UN 2916 576  For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met.  Expression “radiation level” is replaced by “dose rate” in SSR-6. X

F/51  UN 2916 579  For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement.  Expression “radiation level” is replaced by “dose rate” in SSR-6. X

F/52  UN 2916 566(b)  Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions.  Expression “radiation level” is replaced by “dose rate” in SSR-6. X
| F/53 | UN 2917 / 4 | 4. MAXIMUM DOSE RATE radiation level  
(i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use.  
(ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.  
(iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h.  
   | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
   | “1” is in exponent  
   | X |  |
| F/54 | UN 2917 / § 573 | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed to exceed.  
   | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
   | X |  |
| F/55 | UN 2917 / § 575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10 of the Regulations, footnote (a), are not allowed to be transported.  
   | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
   | X |  |
| F/56 | UN 2917 / § 576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI, CSI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met.  
   | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
   | X |  |
| F/57 | UN 2917 / § 566 | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions.  
   | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
   | X |  |
| F/58 | UN2917 502,503 (a)-(c), (e) | (iii) For each package, it is required to ensure that all the requirements specified in the competent authority approval certificates have been satisfied. Contents that are not mentioned in the approval Para 502 is quoted, but not explained. To add explanation of para 502.  
<p>| X | See WNTI/14 |</p>
<table>
<thead>
<tr>
<th>F/N</th>
<th>UN/Section</th>
<th>Comment</th>
<th>Coherence</th>
<th>Mod</th>
<th>Deletion</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/59</td>
<td>UN 2917 / § 531-533, 535</td>
<td>All markings are required to be legible and durable, and are required to be on the outside of the packaging.</td>
<td>Modification of SSR-6 (“marks” instead of “markings”).</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/60</td>
<td>UN 2917 / § 509</td>
<td>Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required.</td>
<td>To take into account SSR-6 modification (§ 509)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/61</td>
<td>UN 2919 / § 4, 4(i), 4(ii) and 4(iii) § 8 (573 and 575)</td>
<td>DOSE RATE radiation level</td>
<td>Coherence with para. 516</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/62</td>
<td>UN 2919 / § 6</td>
<td>All markings (…)</td>
<td>Coherence with para. 532</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/63</td>
<td>UN 2977 / § 509</td>
<td>Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required. This requirement does not apply to the internal surfaces of freight containers being used as packagings, either loaded or empty.</td>
<td>To take into account SSR-6 modification (§ 509)</td>
<td>X</td>
<td>Deletion of “tanks, intermediate bulk containers” done. UN 2977 cannot be transported in freight containers used as a packaging, but in packages approved to contain fissile material.</td>
</tr>
<tr>
<td>F/64</td>
<td>UN 2977 526–528, 575 573(a)–(c) 575 576 566(b)</td>
<td>dose rate radiation level</td>
<td>Expression “radiation level” is replaced by “dose rate” in SSR-6</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/65</td>
<td>UN 2977 531–535 539</td>
<td>All markings (…)</td>
<td>Modification of SSR-6 (“marks” instead of “markings”).</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>F/66</td>
<td>UN2977 502,503 (a)-(e)</td>
<td>(c) For each package, it is required to ensure that all the requirements specified in the competent authority approval certificates have been satisfied. Contents that are not mentioned in the approval certificates are not allowed in the package. No modification of the content (radionuclide, physical or chemical state,..) is allowed.</td>
<td>Para 502 is quoted, but not explained. To add explanation of para 502.</td>
<td>X</td>
<td>See WNTI/14</td>
</tr>
<tr>
<td>WNTI/49</td>
<td>SCHEDULE FOR UN 2977 1 110, 507</td>
<td>Uranium hexafluoride has toxic and corrosive properties (Class 8) and these are required to be taken into account during transport.</td>
<td>UF6 is a radioactive material (Class 7) with toxic and corrosive subsidiary hazards.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>WNTI/50</td>
<td>SCHEDULE FOR UN 2977 2 421</td>
<td>Paragraphs to be added in this section after text relative to para 421, or in place of this text: 409(b), 410, 411, 521, 522 Activity limits and choice of the package type in case of LSA-II. 428 Activity limits for a Type A package. 432, 433 Activity limits for a Type B(U), B(M) or C package.</td>
<td>To be more precise than the text provided in link with para 421. Requirements in para 521 and 522 should be is this section instead of being in section 5 which is relative to categories of packages and overpacks.</td>
<td>X</td>
<td>Applied also to UN 2978</td>
</tr>
<tr>
<td>WNTI/51</td>
<td>SCHEDULE FOR: UN 2977 2 417</td>
<td>Text to be modified: 417, 418 Fissile FISSION material and exceptions. 418 — Fissile material</td>
<td>To clearly identify that only material qualified as “FISSION” (in capital letters) in para 417 is concerned by this schedule.</td>
<td>X</td>
<td>3324, 3325, 3326, 3327, 3333, 3328, 3329, 3330 and 3331</td>
</tr>
<tr>
<td>WNTI/45</td>
<td>SCHEDULE FOR UN 3507 1 Para 110, 507</td>
<td>Uranium hexafluoride is a radioactive material possessing toxic and corrosive properties. When in an excepted package, this material is classified in Class 6.1 (toxic) with corrosive and radioactive subsidiary hazards. This classification has to be taken into account to comply with the applicable transport regulations for dangerous goods.</td>
<td>The information that UF6 is toxic was missing as well as the fact that this UN number is a UN number of Class 6.1.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>WNTI/46</td>
<td>SCHEDULE FOR UN 3507 6</td>
<td>110, 507 Excepted packages containing uranium hexafluoride shall bear labels as required for UN3507 in the applicable transport regulation for dangerous goods. 515 Labelling for radioactive contents is not applicable.</td>
<td>Text relative to labelling of the package is missing. Requirements of para 110 and 507 are applicable to this excepted package, and make applicable labelling and marking in relation with toxic and corrosive hazards.</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>WNTI/47</td>
<td>SCHEDULE FOR UN 3507 8.4 Para 511</td>
<td>Before the text relative to para 511, add the following: 510 Access restriction and assessment of contamination in case of damaged or leaking package.</td>
<td>Requirements of para 510 are also applicable to excepted packages</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>WNTI/48</td>
<td>SCHEDULE FOR UN 3507 8.5 Para 511</td>
<td>Delete “Not applicable” and add: 8.5. Transport of other goods - Decontamination 504 A package shall not contain any items other than those that are necessary for the use of the radioactive material. 505 Tanks, and intermediate bulk containers, packagings, overpacks and freight containers used for the transport of radioactive material are not allowed to be used for storage or transport of other goods, unless decontaminated below one tenth of the levels specified in paras 508 and 509 of the Regulations. 509 Non-fixed contamination on the external and internal surfaces of overpacks, freight containers and conveyances shall not exceed the limits specified in para. 508.</td>
<td>Paragraphs 504 (transport of other goods), 505 (use of transport means for transport of other goods) and 509 (decontamination of transport means) are applicable to this excepted package.</td>
<td>X</td>
<td>See WNTI/31</td>
</tr>
<tr>
<td>WNTI/52</td>
<td>Schedules for UN 2977,</td>
<td>Title to be modified: Radiation level shall be replaced by dose rate, and</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3324, 3325, 3326, 3327, 3328, 3329, 3330 and 3331</td>
<td>4 MAXIMUM RADIATION LEVELS DOSE RATES, TI and CSI</td>
<td>the title shall be completed as the text also considers TI and CSI limits.</td>
<td></td>
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<tr>
<td>WNTI/53 SCHEDULE FOR UN 2977 5 521, Table 5 522, Table 6</td>
<td>Text to be deleted: 521. Table 5 — Type of package. 522. Table 6 — Activity limits in case of LSA-II.</td>
<td>These two paragraphs shall be treated in section 2 (see comment WNTI/50).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/67 UN 2978 526–528, 575 573(a)–(c) 575 576 566 (b)</td>
<td>(...) dose rate radiation level (…)</td>
<td>Expression “radiation level” is replaced by “dose rate” in SSR-6.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/68 UN 2978 531–535 539</td>
<td>All markings (…)</td>
<td>Modification of SSR-6 (“marks” instead of “markings”).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/69 UN2978 502,503 (a)-(c), (e)</td>
<td>(iii) For each package, it is required to ensure that all the requirements specified in the competent authority approval certificates have been satisfied. Contents that are not mentioned in the approval certificates are not allowed in the package. No modification of the content (radioactive, physical or chemical state…) is allowed.</td>
<td>Para 502 is quoted, but not explained. To add explanation of para 502.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F/70 UN 3321 ▪ 411,517 ▪ §4 ▪ 526–528,575 ▪ 573(a)-(c) ▪ 575</td>
<td>(...) dose rate radiation level (…)</td>
<td>Expression “radiation level” is replaced by “dose rate” in SSR-6.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WNTI/53: Applied also to UN 2978. Moved to section 2 in UN2908, UN2912, UN2913, UN3321, UN3322, UN3324, UN3325 and UN3326.

F/67: X

F/68: X

F/69: X

F/70: X

See WNTI/14
| F/71 | UN 3321 523, 524, 524A | The TI is required to be derived in accordance with the procedure as stated in paras 523, 524 and 524A of the Regulations. The multiplication factor (523 (c)) is required to be applied to freight containers, but not to freight containers used as packages. | To add a precision because difference between freight container and freight container used as a package is not clear for everybody. | X | Para. 523(c) refers to rounding up the decimal values, not to a multiplication factor |
| F/72 | UN 3321 531– 534 | All markings (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/73 | UN 3322 523, 524, 524A | (...) dose rate radiation level (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/74 | UN 3322 523, 524, 524A | The TI is required to be derived in accordance with the procedure as stated in paras 523, 524 and 524A of the Regulations. The multiplication factor (523 (c)) is required to be applied to freight containers, but not to freight containers used as packages. | To add a precision because difference between freight container and freight container used as a package is not clear for everybody. | X | Para. 523(c) refers to rounding up the decimal values, not to a multiplication factor |
| F/75 | UN 3322 531– 534 | All markings (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/77 | UN3323 526–528, 575 (p.103) (ii) | (ii) The maximum radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea^1. | Number “1” not in the exponent position (as written in the previous version) | X |
| F/78 | UN3323 526–528, 575 573(a)–(c) 575 576 579 | (...) dose rate radiation level (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/79 | UN3323 531–533, 535 | All markings (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/80 | UN3323 502, 503(a)–(c), (e) | (iii) For each package, it is required to ensure that all the requirements specified in the competent authority approval certificates have been satisfied. Contents that are not mentioned in the approval certificates are not allowed in the package. No modification of the content (radionuclide, physical or chemical state,..) is allowed. | Para 502 is quoted, but not explained. To add explanation of para 502. | X |
| F/81 | UN 3324 526–528, 575 573(a)–(c) 575 576 579 566 (b) | (...) dose rate radiation level (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/82 | UN 3324 531–535 | All markings (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/83 | UN 3325 / 4 | 4. MAXIMUM DOSE RATE radiation level (i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
(ii) The maximum dose rate at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.  
(iii) The maximum dose rate at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h.

<table>
<thead>
<tr>
<th>F/84</th>
<th>UN 3325 531–535</th>
<th>All markings (…)</th>
<th>Modification of SSR-6 (“marks” instead of “markings”).</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/85</td>
<td>UN 3326 / 414</td>
<td>The contents are required to be restricted in accordance with the dose rate specified in para. 517 of the Regulations.</td>
<td>Expression “radiation level” is replaced by “dose rate” in SSR-6.</td>
<td>X</td>
</tr>
</tbody>
</table>
| F/86  | UN 3326 / 4     | 4. MAXIMUM DOSE RATE:  
(i) The dose rate for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use.  
(ii) The maximum dose rate at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.  
(iii) The maximum dose rate at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/87  | UN3326 / §573   | For transport by rail and by road: for consignments under exclusive use, the dose rate is not allowed to exceed. … | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/88  | UN3326 / §575   | For transport by vessels: packages or overpacks having a surface dose rate greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/89 | UN3326 / §576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI, CSI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/90 | UN3326/ §579 | For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/91 | UN3326 / §566(b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/92 | UN 3326 531–535 | All markings (…) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/93 | UN3327 / 4. | 4. MAXIMUM DOSE RATE radiation level  
(i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use.  
(ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.  
(iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h. | Modification of SSR-6 (“dose rate” instead of “radiation level”).  
Form mistake in the asterisk (1 instead of 1). | X |
| F/94 | UN3327 / §575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/95 | UN3327 502 503 | Table 10 of the Regulations, footnote (a), are not allowed to be transported. | Para 502 is quoted, but not explained. To add explanation of para 502. | X | See WNTI/14 |
| F/96 | UN3327 / §576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI, CSI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X | |
| F/97 | UN3327 / §579 | For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X | |
| F/98 | UN3327 / §566(b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X | |
| F/99 | UN3328 / §508, 509 | Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required … | To take into account SSR-6 modification (§ 509) | X | |
| F/100 | UN3328 / §526-528, 575 | 4. MAXIMUM DOSE RATE radiation level (i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use. (ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X | |
| F/101 | UN3328 / §531-533, 535 | All markings (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/102 | UN3328 / §539 | The labels are required to be fixed to two opposite sides of the outside of the package or overpack, or on all four sides of a freight container or tank. The labels are not allowed to cover the markings specified in paras 531–537 of the Regulations. | To take into account SSR-6 modification (§ 539) | X |
| F/103 | UN3328 / §573 (a)-(c) | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/104 | UN3328 / §575 (a)-(c) | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h... | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/105 | UN3328 / §566 (b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/106 | UN 3329 561 | Possession of a copy of each certificate and possession of a copy of the instructions with regard to the proper closing of the package and other preparations for shipment. | No item (a) nor (b) in para 561, proposition of a new formulation without (a) nor (b) that could refer to para 561 but do not. | X |
| F/109 | UN 3329 526-528, 575 | **4. MAXIMUM DOSE RATE radiation level**  
(i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, except when transported under exclusive use.  
(ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.  
(iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |  
| F/110 | UN 3329 573 (a)-(c) | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed to exceed: | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |  
| F/111 | UN 3329 575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10, footnote (a), of the Regulations, are not allowed to be transported. | Expression “radiation level” is replaced by “dose rate” in SSR-6.  
To add a precision. | X | “Dose rate” corrected  
Footnote (a) is already included in the original text. |  
| F/112 | UN 3329 566(b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |  
| F/113 | UN 3329 309 | In the event of non-compliance with any limit in the Regulations applicable to dose rate or contamination, appropriate actions are required to be taken as soon as possible, including communication and remedy.  
Para. 309 prescribes that the non-compliance with Regulations is for limits applicable to dose rate or contamination. | | X | See F/32 |  
| F/114 | UN 3330 508, 509 | Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks, intermediate bulk containers and conveyances is required to be kept as low as practicable and is not Consistent with para. 509  
To take into account SSR-6 modification (§ 514) | | X |
allowed to exceed the following limits, when averaged over any area of 300 cm² of any part of the surface:
(a) Beta, gamma and low toxicity alpha emitters, 4 Bq/cm²;
(b) All other alpha emitters, 0.4 Bq/cm².

| F/115 | 526–528, 575 | 4. MAXIMUM DOSE RATE radiation level
(i) The dose rate radiation level for a package or overpack is required to be such that the transport index (TI) of the package or overpack does not exceed 10, except when transported under exclusive use.
(ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea.¹
(iii) The maximum dose rate radiation level at any point on any external surface of a package or overpack transported under exclusive use is not allowed to exceed 10 mSv/h.

¹ Packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h carried in or on a vehicle under exclusive use may be transported by vessels in accordance with Table 10 of the Regulations, footnote (a), provided that such packages or overpacks are not removed from the vehicle at any time while on board the vessel.

| F/116 | 573(a)–(c) | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed to exceed: . . .

Expression “radiation level” is replaced by “dose rate” in SSR-6.

| F/117 | 575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10 of the Regulations, footnote (a), are not allowed to be transported except under special arrangement.

Consistent with para. 575

“except under special arrangement” is applicable to all UN numbers except Excepted Packages and Special Arrangements.

Expression “radiation level” is replaced by “dose rate” in SSR-6.
| F/118 | 576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/119 | 579 | For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/120 | 566(b) | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/121 | UN 3331 561 | Possession of a copy of each certificate and possession of a copy of the instructions with regard to the proper closing of the package and other preparations for shipment. | No item (a) nor (b) in para 561, proposition of a new formulation without (a) nor (b) that could refer to para 561 but do not. | X |
| |  |  | See F/43 |
| F/122 | 667-668 | Design requirements for Type B(M) packages, summary and exceptions. | To mention para. 668 which is applicable | X |
| CDN/4 | In schedule for UN 3331 | “536A” must be added | It is already in any other similar schedule | X |
| F/123 | UN 3332 / § 531-534 | All markings (…) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/124 | UN 3332 / 4 | 4. MAXIMUM DOSE RATE radiation level (i) The dose rate radiation level for a package or overpack is required to be such that the transport index (T1) of the package or overpack does not exceed 10, and the criticality safety index (CSI) is not allowed to exceed 50, except when transported under exclusive use. (ii) The maximum dose rate radiation level at any point on any external surface of the package or overpack is not allowed to exceed 2 mSv/h, except when transported under exclusive use by rail or by road, or under exclusive use by sea. | Expression “radiation level” is replaced by “dose rate” in SSR-6. Form mistake in the asterisk (1 instead of 1). | X |
| | | | Footnote 1 is correct. |
| F/125 | UN 3332 / § 573 | For transport by rail and by road: for consignments under exclusive use, the dose rate radiation level is not allowed to exceed: … | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/126 | UN 3332 / § 575 | For transport by vessels: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h, unless being carried in or on a vehicle under exclusive use in accordance with Table 10 of the Regulations, footnote (a), are not allowed to be transported. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/127 | UN 3332 / § 576 | For transport by vessels: the transport of consignments by means of a special use vessel is excepted from the requirements of para. 566 of the Regulations relating to TI, CSI and dose rate radiation level provided that the conditions stated in para. 576 of the Regulations are met. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/128 | UN 3332 / § 579 | For transport by air: packages or overpacks having a surface dose rate radiation level greater than 2 mSv/h are not allowed to be transported, except under special arrangement. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/129 | UN 3332 / § 566 | Limits on the dose rate radiation level from freight containers and conveyances. See para. 573(b) and (c) of the Regulations for exceptions. | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/130 | UN 3332 502,503 (a), (e) | Before each shipment of any package design, it shall be ensured that the package contains neither radionuclides different from those specified for the package design; nor contents in a form, or physical or chemical state, different from those specified for the package design | Para 502 is quoted, but not explained. To add explanation of para 502. | X | See WNTI/14 |
| F/131 | UN 3332 / § 509 | Non-fixed contamination on the external surfaces of any package and on the external and internal surfaces of overpacks, freight containers, tanks—intermediate bulk containers and conveyances is required … | To take into account SSR-6 modification (§ 509) | X | “tanks, intermediate bulk containers” deleted. Freight containers cannot be used as a Type A package. |
| F/132 | UN3333 / § 4, 4 (i), 4(ii) and 4(iii) § 8 (573 and 575) | (...) *dose rate radiation level* (...) | Expression “radiation level” is replaced by “dose rate” in SSR-6. | X |
| F/133 | UN3333 / § 6 | All *markings* (...) | Modification of SSR-6 (“marks” instead of “markings”). | X |
| F/134 | UN 3507 / § 515 | *If the excepted package contains fissile material, one of the fissile exceptions provided by para. 417 is required to be applied.* | The sentence has been deleted from the SSR-6 (§ 515). | X |
| F/135 | UN 3507 / § 515 | *Fissile material excepted under para. 417(f) is required to comply with para. 606 and requires multilateral approval by the competent authority in each State.* | Redundant with para. 417 described in DS 506. | X |
| F/136 | UN 3507 / § 417 | Fissile material excepted under para. 417(f) is required to comply with para. 606 and requires multilateral approval by the competent authority in each State *as specified in para. 805.* | The multilateral approval is mentioned in SSR-6 para. 805 (not in SSR-6 para. 417). | X |

Applicable also to UN 2910, 2911, 2912, 2913, 2915, 2916, 2917, 2919, 3321, 3322, 3323, 3332 and 3507