The R83 Package: A new Type B(U) fissile Package Research Reactor Spent Fuel Transportation in the Netherlands

- Family owned company created in 1830 with three sites in France
- A sister company ROBATEL Technologies established in 2009 in Roanoke, VA.
- 60 years focused on the nuclear industry

Principal specialty solutions:
- Transportation Packages, mainly type B
- Hot cells,
- Glovebox systems,
- Nuclear waste management system integration,
- Gamma and neutron radiation shielding materials,
- Services (engineering, maintenance, decommissioning).
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Overview

- **R83 main characteristics:**
  - **Dimensions:**
    - Height: 2,150 mm
    - Diameter: 2,050 mm
  - **Gross weight:** 16,200 kg
  - **Loading:** up to 37 fuel assemblies
  - **Dry or Wet** Loading / Unloading

Type B(U), Fissile
## The R83 Package: A new Type B(U) fissile Package Research Reactor Spent Fuel

### R83 content overview

<table>
<thead>
<tr>
<th></th>
<th>Research Reactor Spent Fuel</th>
<th>Filters with uranium residues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fissile material</td>
<td>U235 – 20,75 kg</td>
<td></td>
</tr>
<tr>
<td>Activity</td>
<td>10 PBq - 20900 A2</td>
<td></td>
</tr>
<tr>
<td>Basket</td>
<td>no.1</td>
<td>no.2</td>
</tr>
<tr>
<td>Outer diameter</td>
<td>Ø 728 mm</td>
<td>Ø 728 mm</td>
</tr>
<tr>
<td>Cells number</td>
<td>37 cells</td>
<td>12 cells</td>
</tr>
<tr>
<td>Cells section</td>
<td>88 x 88 mm²</td>
<td>167 x 167 mm²</td>
</tr>
<tr>
<td>Cells height</td>
<td>910 mm</td>
<td>910 mm</td>
</tr>
<tr>
<td>Material</td>
<td>Boronated stainless steel</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

![Diagram of R83 Package](image)
Let’s meet in the Ballroom

THANK YOU FOR ATTENTION