Federal Office of Defence Technology and Procurement

Disposal / destruction of German cluster munitions stockpiles
- Conference Genf Juni 2011 -

Bundeswehr
Subject: Disposal / destruction of German cluster munition stockpiles

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Overview

- Disposal of German Cluster Munition (Situation of the destruction in Juni 2011)
- The utilization process (method used for destruction)
- Special risks
- Cost for the utilization of cluster munitions
- Time schedule of the utilization Process
Quantity of German Cluster Munition
Disposal of German Cluster Munition:

Sum of German Cluster Munitions = 520,000 EA (more than 51,000 t)

more than 60,500,000 pieces of Submunitions!
Disposal of the German Cluster Munition (Juni 2011)

<table>
<thead>
<tr>
<th>Designation</th>
<th>Submunition each Warhead (EA)</th>
<th>Already destroyed – Juni 2011</th>
<th>Still to destroy - Juni 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>203 mm, 155mm Projectile (DM 602, DM 612, DM 632, DM652, DM 642, M483A1)</td>
<td>From 63 EA up to 120 EA</td>
<td>17.290 t</td>
<td>10.585 t</td>
</tr>
<tr>
<td>BL 755</td>
<td>147 EA</td>
<td>6.009 t</td>
<td>0 t</td>
</tr>
<tr>
<td>Ausstoßgerätesatz DM 11, DM12, DM22, DM31, DM32</td>
<td>From 200 EA up to 4.536 EA</td>
<td>3.532 t</td>
<td>265 t</td>
</tr>
<tr>
<td>MLRS M26-RPC</td>
<td>6 Raks a 644 EA = 3.864 EA</td>
<td>2.686 t</td>
<td>11.101 t</td>
</tr>
</tbody>
</table>

Summary: > 60.500.000 EA 29.517 t 21.951 t
Disposal of the German Cluster Munition (Juni 2011)

Completion of disposal: scheduled for December 2015

Still to destroy:
round about 21,900 t
(42,6 %)

Already destroyed:
round about 29,500 t
(57,4 %)
1) The problematic Way
The problematic Way

- Problems with environmental regulations (Dioxine, Furane ...)
- Possibility of active submunition in the detonation area
The Utilization Process (Method in Germany)
General process to destroy German Cluster Munition (1)

- Deactivation of the Warhead (removal of fuzes and explosives)
General process to destroy German Cluster Munition (2)

- Destruction of the submunitions:

  (MLRS)

  (ICM)
General process to destroy German Cluster Munition (3)

- Disposal of submunitions (explosives)
General process to destroy German Cluster Munition (4)
General process to destroy German Cluster Munition (5)

Disposal of residues:
Summary of the main points

• Full automatic process !!
• No persons during the disposal process !!
• Loading of the complete warhead
• Thermal treatment of the submunitions or recycling
Special risks
Special risks – Disposal MLRS (1)
Test equipment - 2009 (before...)
Special risks – Disposal MLRS (2)
Test equipment - 2009 (afterwards...)
Special risks – Disposal MLRS (3)
Special risks – Disposal MLRS (4)
Costs for the utilization of the Cluster Munitions
Costs for the utilization of the Cluster Munitions (examples)

- MLRS M26 (1 Rocket a 644 Bombletts): about 600 € each Piece
- Clusterbomb BL 755: about 320 € each Piece
- 155 mm Projectile DM602: about 25 € each Piece
- 203 mm Projectile DM602: about 45 € each Piece

General Costs for utilization the Disposal of German Cluster ammunition: about 37 Mio. €
Time schedule of the Utilization Process
Minimum time schedule of the utilization process

From the planning to payment (one Contract) : total about 29 Weeks
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