DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003

How the disposal activity has been carried out at the military plant in Noceto under the responsibility of the “Italian Defence Industries Agency”.

TOPIC
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO

Geneva, 6 February 2003
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>205 mm</td>
</tr>
<tr>
<td>Diameter</td>
<td>130 mm</td>
</tr>
<tr>
<td>Mine weight</td>
<td>3.3 kg</td>
</tr>
<tr>
<td>Explosive weight</td>
<td>550 g</td>
</tr>
<tr>
<td>Fuse type</td>
<td>Tripwire or direct pressure</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>10.8 kg direct pressure, 6-8 kg pull on tripwire</td>
</tr>
<tr>
<td>Lethal radius</td>
<td>27 m</td>
</tr>
<tr>
<td>Metal fragments</td>
<td>1,200</td>
</tr>
</tbody>
</table>
DESTRUCTION ACTIVITY

From January to October 2002:

• 40 artificers were engaged
• 2,000 units were disassembled every day
• 410,027 mines were demilitarized

DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003

DESTRUCTION PROCESS

PHASE 1: MINE DISASSEMBLY

PHASE 2: MECHANICAL DISPOSAL

PHASE 3: THERMAL DISPOSAL
MILITARY DEPOT

2000 mines are everyday transported to Noceto facility

Unpacking and manual disassembly of the mines

Recovery and selection of components

Disposal of small explosive devices

Scrapping of inactive components

Valmara 69 Inner case

Unpacking of the mine inner case

INDUSTRIAL PHASE
Mechanical disposal of the inner case

Controlled burning process of recovered explosive

Recovery of metal components (Aluminium and steel)

Emission of filtered flue gas

END
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003

PLANT FOR THERMAL DISPOSAL

LEGEND
1 Feeding system
2 Tunnel oven
3 Metallic components recovery
4 After-burner
5 First Catalyst
6 Regenerator
7 Automatically cleaning filter
8 Second Catalyst
9 NOx Analyser
10 Electronic control unit
11 NH, Tank
12 NH, Evaporator
13 Emergency chimney
14 Emission of filtered flue gas

RED AREA : EXPLOSIVE THERMAL DISPOSAL
BLUE AREA : FLUE GAS FILTERING SYSTEM
DESTRUCTION OF VALMARA 69 MINE AT MILITARY PLANT IN NOCETO
Geneva, 6 February 2003