EXECUTION OF WORKS RELATED TO DISPOSAL OF PFM ANTI-PERSONNEL MINES IN UKRAINE

Geneva
December 2-5, 2013

International Commitments of Ukraine Concerning the Destruction of Anti-Personnel Mines

Ukraine ratified the Ottawa Convention under the condition of receiving international technical and financial assistance for disposal of PFM-1 (1S) anti-personnel mines. Disposal deadline expired on June 1, 2010.

Current number of mines for disposal: 5,435,248 PFM-1 (1S)

As of today Ukraine managed to dispose 1,218,433 mines (among those 567,672 PFM-1 mines). Total number of PFM-1 mines disposed in 2013 – 332,352
Quantity of PFM mines in ammunitions

Engineer ammunition
KSF-1 (PFM-1, S) - 1,108,432

Aviation ammunition
BKF (PFM-1S) – 1,134,120

Rockets
missiles 9M27K3 (PFM-1S) – 3,192,696

Ammunitions with PFM-1 Anti-Personnel Mines in Ukraine Liable to Destruction

1) Engineer ammunition:
KSF and KSF-1S clusters with PFM-1 (PFM-1S) mines

<table>
<thead>
<tr>
<th>Place</th>
<th>Title</th>
<th>Quantity mines</th>
<th>Destructed mines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Base A0534 (Olshanitsya village, Kyiv region)</td>
<td>KSF-1</td>
<td>1,108,432</td>
<td>522,792</td>
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### Ammunitions with PFM-1 Anti-Personnel Mines in Ukraine Liable to Destruction

#### 2) Aviation ammunition: BKF-PFM-1S block

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<tr>
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<th>Quantity mines</th>
<th>Destructed mines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Base A3177 (Dubiyevka village, Cherkasy region)</td>
<td>BKF-PFM-1S</td>
<td>245,676</td>
<td>-</td>
</tr>
<tr>
<td>Military Base A A3013 (Gruzeritsa village, Khmelnytskiy region)</td>
<td>BKF-PFM-1S</td>
<td>889,044</td>
<td>-</td>
</tr>
</tbody>
</table>

#### 3) 220 mm guided missiles 9M27K3 for “Uragan” Multiple Launch Rocket System

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<th>Quantity mines</th>
<th>Destructed mines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Base (a/i) A1358 (Tsvityuha village, Khmelnytskiy region)</td>
<td>220 mm RS 9M27K3</td>
<td>1,857,648</td>
<td>-</td>
</tr>
<tr>
<td>Military Base (a/i) A1201 (Bogdanovka village, Kirovograd village)</td>
<td>220 mm RS 9M27K3</td>
<td>642,408</td>
<td>-</td>
</tr>
<tr>
<td>Military Base (a/i) A1119 (Kalinovka village, Vinnytsya region)</td>
<td>220 mm RS 9M27K3</td>
<td>692,640</td>
<td>-</td>
</tr>
</tbody>
</table>
EXECUTION OF WORKS RELATED TO DISPOSAL OF PFM-1 ANTI-PERSONNEL MINES AT SE “RIC “PAVLOGRAD CHEMICAL PLANT”

Ammunition Disposal

Types of disposed ammunition
• Ammunition containing trotyl, caliber 76 – 240 mm
  15 000 – 30 000 tonnes/year
• Ammunition containing cyclonite, caliber 20 – 203 mm
  8 000 – 12 000 tonnes/year
• Cartridges, grenades, mines, detonators
  2 500 – 3 300 tonnes/year
• Aviation and naval bombs, mines
  1000 – 2 000 tonnes/year
It is planned to destroy 3 million units of PFM-1 mines till 2015 within the framework of the NATO’s Partnership for Peace programme Phase II.

2013-02-01 Agreement on Disposal of PFM-1 (1S) Anti-Personnel Mines was signed between NATO/NSPA, Ministry of Defense of Ukraine and Pavlograd Chemical Plant at the NSPA Representation Office in Kyiv.

2013-03-21 Pavlograd Chemical Plant launched the works on disposal of KSF-1 clusters with PFM-1 mines.

In 2013 332,352 PFM-1 mines were destroyed thanks to the contribution of 200,000 Euros provided by the Federal Republic of Germany.
Disposal facility of PFM-1 mines

2013-04-09 Military Attachés from 15 countries have been familiarized with the ongoing project on disposal of PFM-1 anti-personnel mines at Pavlograd Chemical Plant
## USE OF HUMANITARIAN ASSISTANCE GRANTED BY THE KINGDOM OF NORWAY

<table>
<thead>
<tr>
<th>Description of equipment</th>
<th>Equipment suppliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment for line for cooling and heat recovery from fire disposal of PFM mines combustion products</td>
<td>CJSC “RIC INTERENERGO”</td>
</tr>
<tr>
<td>Equipment for dry cleaning of hazardous substances using ceramic filters complete with powder feeder, automation and control instrumentation system</td>
<td>Maritime House Limited, UK</td>
</tr>
</tbody>
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### Diagram:
- **Antipersonnel mines disposal plant**
  - Установка ликвидации противопехотных мин
- **Plant for combustion products afterburning**
  - Установка догорания продуктов сгорания
- **Plant for line of cooling and heat recovery**
  - Установка линии охлаждения и утилизации тепла
- **Scrubber unit**
  - Установка скруббера
- **Plant for dry cleaning of hazardous substances**
  - Установка для сухого очищения вредных веществ
In June 2013 Pavlograd Chemical Plant conducted the test disposal of PFM-1 anti-personnel mines using the EISENMANN detonation chamber (this is the second site for PFM-1 mines disposal)

Launch of this detonation chamber will double the pace of PFM-1 mines destruction

Site for thermal disposal furnace with detonation chamber and gas purification system
Detonation chamber
Site for loading blocks with PFM-1 mines

HEAT TREATMENT EQUIPMENT FOR EMC FRAGMENTS (SS-24)

Liquid effluents purification system
Afterburner chamber
Detonation chamber
Rotor furnace
Gas purification system
DETONATION CHAMBER FOR PFM-1 (1S) DISPOSAL

Construction of the site for PFM-1 (1S) ammunition preparation for disposal (removal of frames and electric caps)

Ukraine constructs at its own cost an additional section for dismantling of ammunition, containing anti-personnel mines, which will significantly increase the rate of destruction of antipersonnel mines PFM-1.
Ukraine’s efforts to fulfill its obligations with respect to the destruction of PFM-1 antipersonnel mines

1. Development of an area for PFM1 disassembly
2. Improvement of technological methods for the destruction of PFM-1
3. Establishment of the National Mine Action Authority by the September 2013 Presidential Decree
4. Destruction of 332,352 mines PFM-1 thanks to the help of Germany
5. Continuation of an active dialogue with the European Commission (from which Ukraine expects financial assistance since 2005) as well as other donors on their participation in the destruction of antipersonnel mines PFM-1

Ukraine calls for the donor community to contribute to the process of resuming work on the destruction of anti-personnel mines PFM-1