NAMSA DEMILITARIZATION PROJECTS

PREPARED FOR:

20

Stockpile Destruction Committee Geneva
30 May 2002

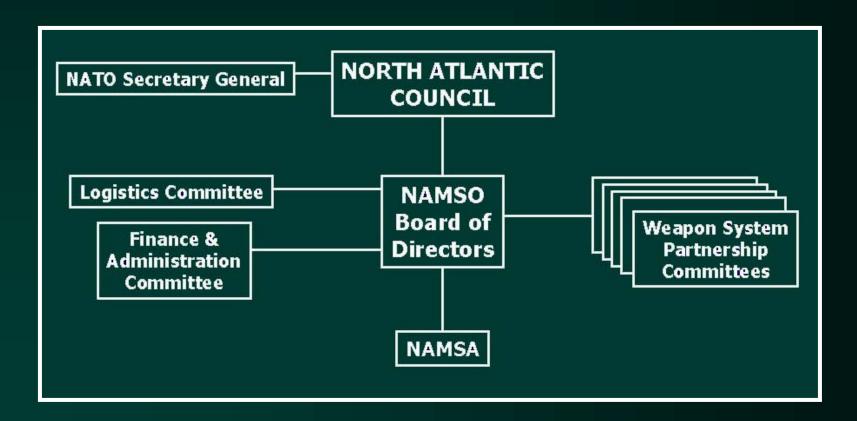
PRESENTED BY:

Steve Brown
Senior Technical Officer
Ammunition Section
Special Projects Programme

NAMSA's Position within NATO



- The NATO Maintenance and Supply Agency (NAMSA) is the executive arm of the NATO Maintenance and Supply Organization (NAMSO)
- □ It was created in 1958 by a North Atlantic Council decision





Special Projects Programme Ammunition Section

- Ammunition Procurement through Weapon System Partnerships
- Ammunition Demilitarization
- □ PfP Trust Fund Projects
- NATO Ammunition Data Base
- Stinger Support
- Mk 46 Torpedo Support



Ammunition Disposal And Demilitarization Techniques

Expedient Solutions

Sale or gift

Rapid firing

Open burning

Open detonation

Industrial Solutions

Disassembly

Melt-out

Washout

Reclamation and conversion

Cryogenics

Incineration

Open Burning and Open Detonation (OBOD)





... is prohibited within NAMSA contracts





Why?

- To protect the environment
- To protect NATO, NAMSA and nations from litigation
- To apply common standards for demil contracting

NAMSA Demilitarization Projects

No of Contracts: 54

Customers: Canada, Denmark, France, Greece,

Italy, NATO, Netherlands, Norway,

Portugal, Spain, UK, US

Contractors in: Albania, France, Germany, Italy,

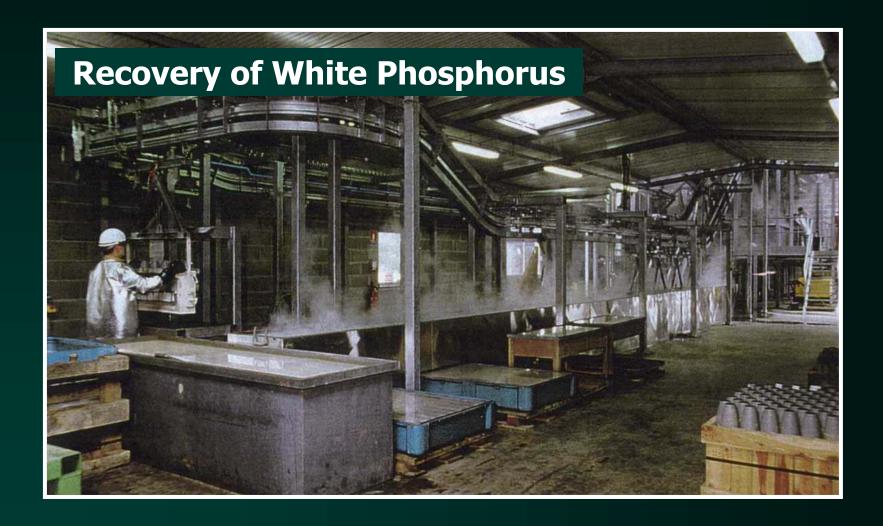
Moldova, Norway, Spain, UK, Ukraine

Ammo Types: GM, Artillery, Grenades, Mortars,

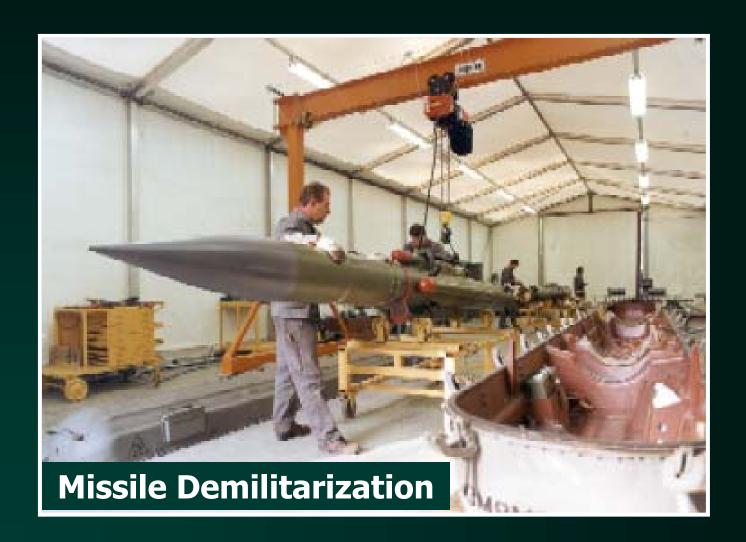
Landmines, Sea mines, Pyrotechnics, Lachrymatory, WP, DU, Aerial bombs,

Cluster bombs, Liquid propellant





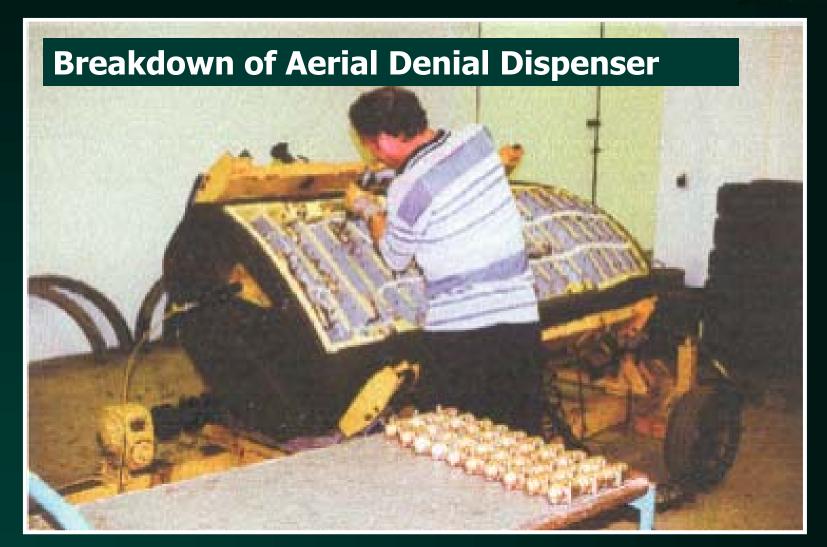












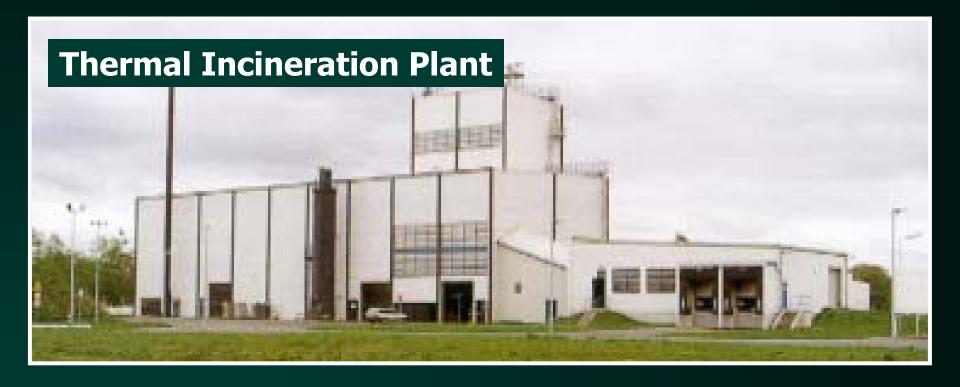




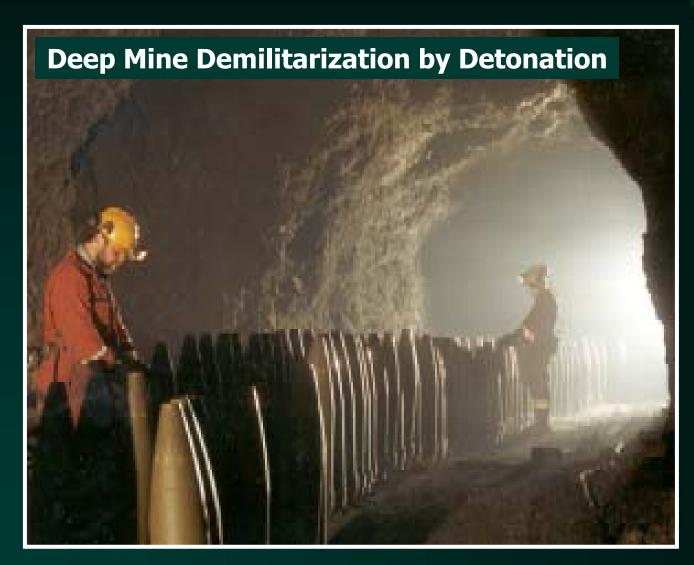


Processing High Explosive Sub Munitions

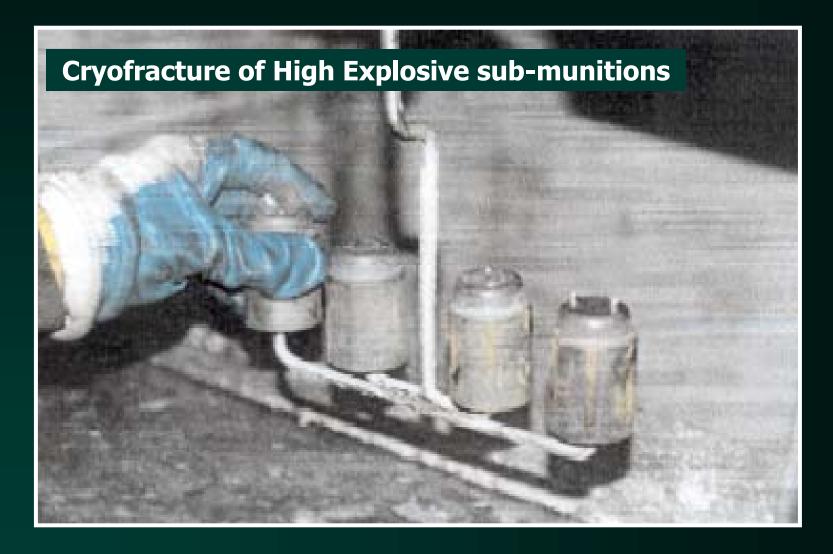




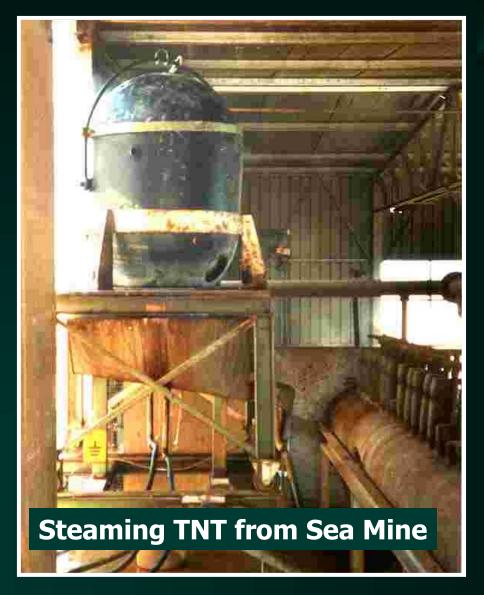














Partnership for Peace Countries





^{*} Turkey recognises the Republic of Macedonia by its constitutional name



NATO PfP Trust Fund

Established in 2000 to provide a mechanism to help Partner nations meet Ottawa Convention obligations

2001 extended to include:

- Small Arms and Light Weapons
- All conventional munitions

2002 may be extended to include:

- All elements of Partnership Work Programmes
- Nations of Mediterranean Dialogue and South East Europe Initiative

NATO's PfP Trust Fund — Area of Interest





The NATO PfP Trust Fund Process

Projects to be sponsored jointly by a NATO nation and the Partner nation

Any nation or international organization may be donors

Binding Agreements between Partner, NATO, donors and NAMSA

NAMSA acts as executing agent



Destruction of APM Stockpile Albania

First NAMSA PfP Project

Aim: Demilitarize 1.6 Million APMs

Target: Complete in 16 months

Supplementary: Build local capacity for

future demilitarization

Cost: US\$ 800.000

Sponsors: Canada and Albania

Donors: Austria, Belgium, Hungary, Norway, Netherlands, Switzerland, UK

Status: Completed 4 April 2002



Facilities



Before...









Processing Mines











Recycling







Milled TNT mixed with ammonium nitrate to make ammonite for use in civil engineering projects in Albania and Kosovo.

Recycling









Fragmentation mine bodies smelted to make manhole covers and steel reinforcing rods.

Destruction of APM Stockpile Albania Achievements



Completed 4 April 2002, ahead of schedule and within budget

1,683,860 APM destroyed:

 1,675,760 APM were demilitarized at ULP Mjekës, without accident or incident

8,100 APM destroyed on SAZAN Island by open detonation with US Navy EOD assistance

Shkoder
Shengjin
Adriatic

Durres

TIRANA

F.Y.R.O.M.

Elbasan

Direct

Libasan

Classific Shengjin

Shengjin

F.Y.R.O.M.

Elbasan

Greece

Greece

1,100 tonnes of ferrous metals recycled

192 tonnes of TNT converted into ammonite

410,000 kilometres driven by the AAF without accident or incident

Moldova Projects



Ukraine

Rîbnita

Dubăsari

CHISINAL

Ukraine

Black

Sea

Moldova

Cahul

Romania

Aim: Disposal of Melanj oxidizer

Destruction APM Stockpile

Destruction surplus munitions

Target: Complete by end 2002

Cost: US\$ 1,079,000

Sponsors: Netherlands and Moldova

Donors: Canada, Germany, Hungary,

Luxembourg, Poland, UK, US

Status: NAMSA project team Dec 2001

UK EOD training Feb 2002

Melanj contract award Apr 2002

Range road contract award Apr 2002

Melanj Liquid Propellant Oxidiser





Disposal of Melanj from SA5 missile site at Dançeny





Disposal of APM & surplus munitions





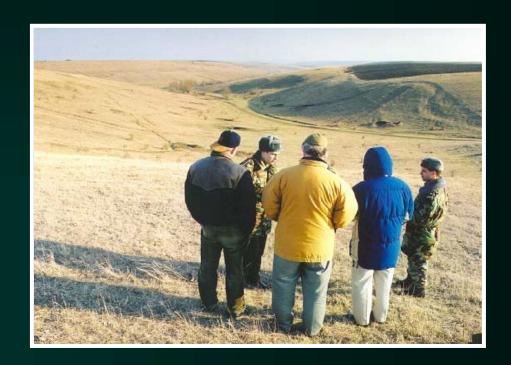
Disposal of 12,000 PMN type APM and surplus munitions including missile warheads by open detonation

Disposal of APM & surplus munitions









Preparation includes EOD training and construction of range road at Bulboka Training Area

Destruction of APM Stockpile Ukraine



Destruction of APM Stockpile Ukraine Proposed production facility - Donetsk



Process building external

Process building internal – refurbishment underway



Storage building



Destruction of APM Stockpile Ukraine Methodology



PMN 2 in hydraulic jig

Comparison between mines before and after process



Broken mine after pressing



Destruction of APM Stockpile Ukraine Recycling





Destruction of Small Arms and Light Weapons Ammunition - Albania









Destruction of Small Arms and Light Weapons Ammunition - Albania

Demilitarize 11.000 tonnes SALW Ammunition Aim:

Yugoslavia

Korçë,

F.Y.R.O.M.

Greece

Shkoder

Elbasan*

Vlorë

Sarande

TIRANA

Target: Four year programme

Supplementary: Establish regional capacity form

demilitarization work

US\$ 3.600.000 – capital equipment Cost:

(donation in kind)

US\$ 4.000.000 – operating costs

Sponsors: Canada and Albania

To be confirmed Donors:

Project Proposal endorsed by PMSC Feb 2002 Status:

Destruction of Small Arms and Light Weapons Ammunition - Albania



APE 1236 rotary kiln of the kind planned for installation at ULP Mjekës



PfP Projects in Yugoslavia (Serbia-Montenegro)







PfP Projects in Yugoslavia (Serbia-Montenegro)

Subot

Novi Sad

BELGRADE

Sandzak

Montenegro

Pančevo

Serbia

Priština

Kosovo

Romania

Bor.

.Niš

FYROM

Bulgaria

Aim: Demilitarization SALW Stockpile

Sponsors: Netherlands and Yugoslavia

Aim: Demilitarization APM Stockpile

Sponsors: Canada and Yugoslavia

Aim: Clear unexploded air munitions

Sponsors: To be confirmed

Target: To be confirmed

Cost: To be confirmed

Status: Preliminary visit Apr 2002

Discussions continuing



PfP Projects in Georgia



Status: Feasibility study to be undertaken June 2002



PfP Projects in Kyrgyz Republic

Aim: Remediation former military sites

Target: To be confirmed

Cost: To be confirmed

Sponsors: Luxembourg & Cost

Kyrgy Zeta Republication

Sary-Tash

China

Status: Bishkek Symposium 27 – 28 May 2002

