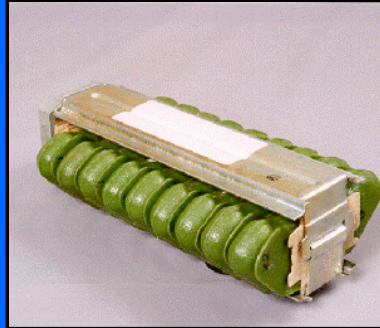




Destruction Methodology for the PFM 1 Series APM



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Background



- UNMAS requested an evaluation of the nature and scope of the PFM 1 destruction problem.
- 7 Phase project in two distinct parts:
 - Part 1 - Academic and environmental technical evaluation.
 - Part 2 - Live trials in contained detonation chamber to evaluate real pollution levels.

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Funding



- ❑ Phase 1: UK DfID
- ❑ Phase 1: Austria in kind
- ❑ Phase 2: EU (TBC)

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Part 1 - Phase 1



- ❑ Obtain and translate available predictive science from Russia, Ukraine and Belarus as appropriate. This includes:
 - Detailed chemical formulae.
 - Fuzing system details.
 - Predicted emission results and methodology used.
 - Predicted environmental effect and methodology used.

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Constraints



- ❑ Time taken to obtain information.
- ❑ Transparency and sufficiency of information.

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Part 1 - Phase 2



- ❑ Independent academic assessment of PFM 1 explosive degradation.
- ❑ Independent academic assessment of predictive chemistry for productions of combustion and detonation.
- ❑ Compare predictive results to other environmental hazards.
- ❑ 2 independent assessments by Austrian and UK research establishments.

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Part 1 - Phase 3



- Development of Trial Plan for experimental assessment using live PFM of evolved products.**

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Part 1 - Phase 4



- Confirm donor funding for live trials.**
- Select trial facility. (Dugway?).**
- Identify source of PFM.**
- Identify transport method of PFM to trial facility.**

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Part 2 - Phase 1



- ❑ **Conduct trials and evaluation of results (as per Phase 1 - Part 2).**

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Part 2 - Phase 2



- ❑ **Develop detailed Open Detonation technique. (Only if environmental results are supportive of this technique).**
- ❑ **Conduct Cost Benefit Analysis of Open Detonation.**
- ❑ **Develop overview of industrial demilitarisation techniques.**



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Phase 2 - Part 3



- Prepare detailed technical paper to be used in any future tendering proposals.

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GENERAL



- Project sponsor: UNMAS
- Funding: Austria, EU(?) & UK
- Time Scale: Phase 1 - 3 months
Phase 2 - ? (PFM)

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