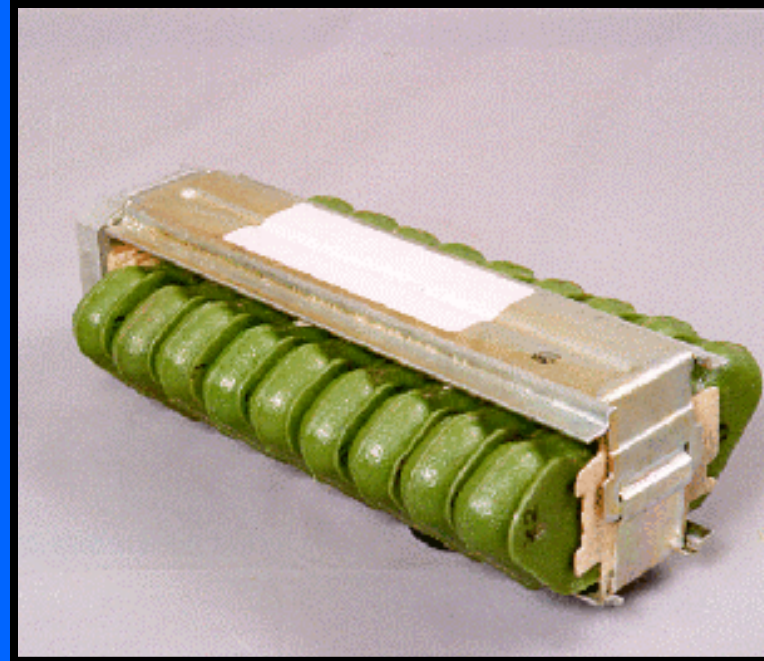




# Destruction Methodology for the PFM 1 Series APM



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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.**



# Funding



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



# 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.



# Constraints



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



## 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.



# Part 1 - Phase 3



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



# 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.**



# Part 2 - Phase 1



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



## 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.**





## Phase 2 - Part 3



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



# GENERAL



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



# Contact details

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