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**NDA National LLW Strategy Group  
November 2009**

# UK Nuclear Industry LLW Management Plan

*Andrew Laker*

*National LLW Strategy – Planning Manager*

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NDA National LLW Strategy Group - November 2009

# Introduction

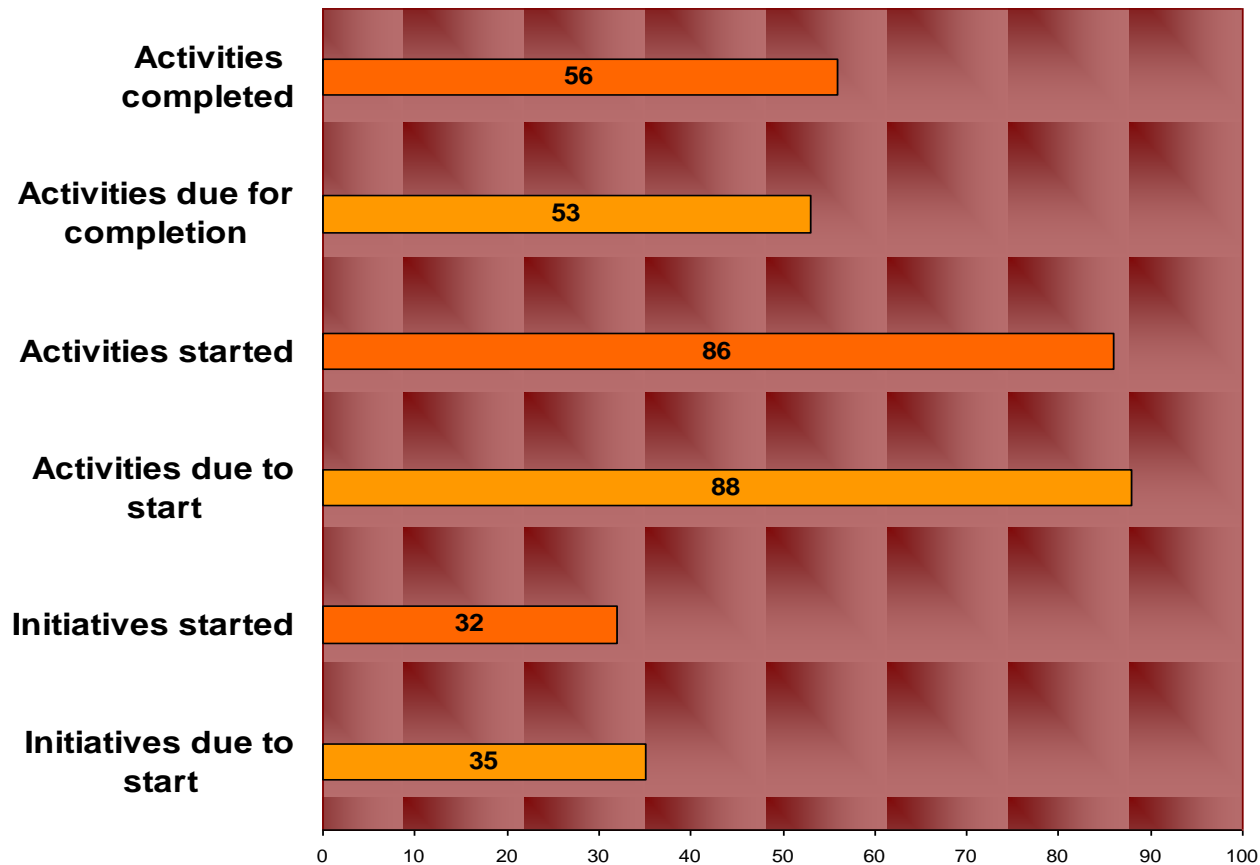
- Plan consulted from Mar - June 2009 and revised to incorporate all comments received
  - NDA and National LLW Strategy Group members
  - Responsible leads for Initiatives
- Most initiatives started and in progress, as scheduled
- Revision 0 of the UK Nuclear Industry LLW Management Plan Issued 17<sup>th</sup> July 2009
- Revision 1 in final preparation and due for issue to NDA in Dec 2009
- Available for review on LLWR website

# UK Nuclear Industry LLW Management Plan

## 6 Initiatives now completed

- **WAM1** - *Standardise waste avoidance and minimisation programmes*
- **WAM4** - *Identify and share waste avoidance and minimisation good practices*
- **WT2** - *Develop metal treatment routes*
- **RR1** - *Identify and share re-use and recycling good practices*
- **OTHER2** - *Preparation of national strategic option assessments*
- **OTHER5** - *Develop strategy to optimise use of current/future NDA Assets*

# Management Plan Activities - Statistics



# Waste Avoidance/Minimisation- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
<b>Standardise waste avoidance and minimisation programmes</b>	<b>WAM1</b>	<b>WMH Document</b>	<b>Completed</b>
Improve consistency of application of Nuclear Industry Code of Practice (NICO P)	WAM2	Formal NICO P programme on LLW Management	On schedule
Incentivise waste minimisation	WAM3	PBI for WMH implementation	On schedule
<b>Identify and share waste avoidance and minimisation good practices</b>	<b>WAM4</b>	<b>Website on waste minimisation practices</b>	<b>Completed</b>

# Waste Characterisation- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Standardise characterisation programmes	WC1	Guidance document on waste characterisation	On schedule
Consolidate R&D on Characterisation	WC2	Website on waste characterisation R&D	On schedule
Re-estimate wastestream characterisation	WC5	Guidance and training on requirements of WATs	On schedule

# Waste Segregation/Categorisation- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Develop guidance on segregation good practices	SC1	Guidance document on waste segregation practices	On schedule
Incentivise segregation of wastes	SC2	PBIs on waste segregation implementation	On schedule

# Waste Treatment- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Incentivise treatment of wastes	WT1	PBIs- Contract and CfA modifications for LLW treatment	On schedule
<b>Develop metal treatment routes</b>	<b>WT2</b>	<b>Metal treatment services</b>	<b>Completed</b>
Develop incineration routes	WT3	Combustible waste treatment services	On schedule
Enlist supply chain to provide new waste treatment facilities, capacities, and capabilities	WT4	Waste treatment services	On schedule

## Waste Treatment- Initiatives in progress continued

Initiative	ID	Initial Deliverable	Status
Improve efficiency of existing NDA metal decontamination facilities	WT6	Independent metal decontamination study	On schedule
Consolidate R&D on orphan and hazardous wastestreams	WT7	Consolidated R&D recommendations for hazardous and orphan wastes	On schedule

# Recycle/Reuse and Exempt Waste- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Identify and share re-use and recycling good practices	RR1	Website for sharing re-use and recycling good practice	Completed
Re-use/recycle in new construction projects outside nuclear industry	RR4	Communication of re-use and recycle projects	On schedule

# Waste Disposal- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Develop alternative routes for VLLW disposal	WD2	Segregated Waste Treatment service at LLWR	On schedule
Develop on-site/near-site disposal of VLLW on existing NDA sites	WD3	Guidance document for developing business cases for on-site disposal of VLLW	On schedule
Optimise closure of LLWR	WD8	ESC submittal to EA	On schedule
In-situ management of contaminated land	WD11	NDA strategy for contaminated land	On schedule

## Waste Packaging- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Use of reusable containers for transport of LLW	WP2	Technical report on reusable LLW containers	On schedule
Introduce small modular containers for segregated wastes	WP5	Design specification for modular inner-packaging container liners	On schedule

# Waste Transportation- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Use of transport hubs	TRAN1	Transport feasibility study	In progress
Increase use of rail transport	TRAN2	Transport feasibility study	In progress
Integration of LLW and spent fuel shipments	TRAN3	Transport feasibility study	In progress
Transport of large components whole	TRAN4	Transport feasibility study	In progress

## Other- Initiatives in progress

Initiative	ID	Initial Deliverable	Status
Development of UK LLW Strategy	OTHER1	UK Nuclear Industry LLW Strategy and Management Plan	On schedule
<b>Preparation of National strategic option assessments</b>	<b>OTHER2</b>	<b>Strategic option and opportunity studies</b>	<b>Completed</b>
Enhance communications within LLW management community	OTHER3	Implementation of the LSG – conduct meetings	On schedule
<b>Develop strategy to optimise use of current/future NDA assets</b>	<b>OTHER5</b>	<b>SEA for UK Nuclear Industry LLW Strategy</b>	<b>Completed</b>

# Proposed new initiatives

ID	Initiative
WC6	Consolidate R&D on porous and putrescible materials
SC4	Develop Waste Management Services
WP7	Increased use of 0075 ISO skip
TRAN5	Direct consignment of waste to treatment services
TIM5	Improved LLWR CfA compliance
SI7	Transparency of LLW Management activity costs