

# Sellafield Ltd Managing Director's Report to WCSSG



The Sellafield Ltd Managing Director will issue a report every six months prior to the West Cumbria Sites Stakeholder Group main scrutiny meetings which are available to view on the WCSSG website:

[www.wcssg.co.uk](http://www.wcssg.co.uk)

The Sellafield Ltd Managing Director or representative attends the WCSSG meetings and will be happy to respond to any questions.



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# Managing Director's Summary



*Dr. Todd Wright – NMP sponsored Managing Director, Sellafield Ltd*

**Welcome to the new format for my six monthly report to the WCSSG, designed to follow the structure of the Sellafield Plan and make it easier for our stakeholders to scrutinise delivery.**

There are two documents: the performance update, issued every quarter covering progress against key objectives and targets set by the NDA, and the Managing Director's report, in which I will give you my personal perspective on performance and will include a forward view of priorities for the coming months. I would appreciate your views on the format and content of this report.

At the last meeting of the WCSSG in July Tony Fountain, CEO of the NDA, made a personal appearance in order to announce the decision to close the Sellafield Mox Plant (SMP). It was my intention to update members at the October meeting which was subsequently postponed. I would like to take a moment at the beginning of this report to tell you how we have managed the transfer of SMP employees to other roles on site.

I want to stress that the announcement to close SMP was not a reflection on the workforce who had continued to improve SMP operating performance; the closure was directly related to the Fukushima events in Japan which left the business without a customer or funding.

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Since the announcement, Sellafield employees and union representatives have been working with management to develop and implement plans to close the plant down in a safe and efficient manner.

Our objective throughout was to further accelerate our high hazard reduction work, using the excellent skills within the SMP team. As a result, I am pleased to tell you that we have now allocated all those Sellafield Ltd employees not required to safely close down the plant to a new role within the business.

The focus of those that remain in SMP is now to move the plant into a post operational state as efficiently and effectively as possible. As always, safety is our priority in all that we do.

I would like put on record to this committee that I am grateful to everybody involved during this difficult time, including employee representatives and the HR team for their hard work and dedication.

Also at the July WCSSG meeting, we launched the Sellafield Ltd Performance Plan, a huge body of work that was not without its challenges. I think the finished article is an important step forward in transparency and, as I have already mentioned, will provide a structured tool for providing updates to our stakeholders.

### **SIGNIFICANT MILESTONES:**

Sellafield Ltd has achieved a number of significant milestones since the last scrutiny meeting in April 2011, including:

- The publication and delivery of the Sellafield Performance Plan.
- WVP Line 3 safely returned to full operation within a few days of the original schedule following an outage spanning 18 months.
- Decommissioning work on the Windscale Advanced Gas Cooled Reactor (WAGR) was completed, making it the first power producing reactor in the UK to be decommissioned.
- MBGWS has reached a staggering 15 years without a Lost Time Accident (LTA).
- Calder Hall defuelling began with the removal of the first fuel rod in October 2011.
- 1<sup>st</sup> skip of legacy fuel retrieved from the Pile Fuel Storage Pond, the first time fuel has been removed from the pond since 1964.
- 1200m<sup>3</sup> of historic radioactive sludge dating back to the 1950s retrieved from a 60 year old concrete tank two months ahead of schedule.
- The skip handling machine in the First Generation Magnox Storage Pond is operational for the first time in over a decade.

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We still have challenges to face but we are making progress on the challenging goal of accelerating high hazard and risk reduction and as always the key focus in achieving those goals has been to achieve excellent safety performance.

Our focus over the coming months includes work to ensure the safe completion of construction of Evaporator D, the largest nuclear project currently underway in the UK, and one of the most dynamic, complex and challenging.

Work on the project is due to be completed in 2014. It will provide additional capacity to support the site's existing evaporators, which continue to play a pivotal role in the delivery of nuclear fuel reprocessing contracts and high hazard and risk reduction programmes.

There have already been a number of key milestones completed to date, which, on a project of this scale and complexity have been significant achievements. However, we have also encountered a number of challenges which have, disappointingly, adversely affected the overall progress of the project.

NMP and its parent companies have a considerable amount of expertise in this area and we are utilizing their skills and expertise to carry out a thorough review of the project alongside our key contractor. This review will establish the root cause of the issues affecting delivery and we are providing NMP expertise to formulate the best way forward.

The review will provide a revised programme and cost estimate for the project, which will be fully underpinned and to which we will be full committed to delivering through application of our global resources.

However, as this review has not yet been concluded, it would be inappropriate at this stage to speculate on overall programme impact, either in terms of schedule or cost.

I promised at earlier WCSSG meetings that we would involve our stakeholders in developing the public facing document which describes the Performance Plan. As I mentioned earlier, we did as we had promised and delivered a 'fit for purpose' tool to enable scrutiny of our performance.

The Performance Plan will be the corner stone of everything that we do and deliver. The overarching goal for Sellafield Ltd is to be cleaner, safer, more cost effective, more productive and a better neighbour.

While there are still many challenges for us to face I am confident that with safety paramount in our minds and working in partnership with our parent body organisations, our workforce and our stakeholders we can overcome them and confirm ourselves as the world class business we are striving to be.

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# Environmental Health & Safety

Since the last meeting of the WCSSG there have been two nuclear events (Breach of Operating Rule) categorised on the International Nuclear Event Scale (INES). This follows the best INES performance since January 2005 of 226 days.

Over the past few years the total of INES events for the Site has reduced from six events during 2009/10, to three during 2010/11 currently two events in 11/12.

At the end of 10/11 the Lost Time Accident rate was 0.27 per 200,000 hours (12 month period from Apr 2010 to Apr 11). This year to date the rate is 0.34, there have been 30 LTAs, this compares with 25 LTAs for the same time last year.

The site continues to promote and encourage the use of 'Peer to Peer' observations and during this financial year the workforce has completed and recorded over 20,000 observations.



An initiative known as ACEMAN has been implemented across the Sellafield Site. ACEMAN is the name given to the tool which Sellafield Ltd will use to drive individual excellence. It focuses individuals and teams on identifying, exploring and rectifying the barriers which are faced daily while conducting work. ACEMAN is an acronym for : Accident free, Control dose, Event free, Meet commitments, Attend and use training, Nil rework. This tool has been used elsewhere in the nuclear industry with very positive results, because it helps employees at the workplace identify and address issues.

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A corporate review of contractor safety and assurance at Sellafield was completed in July 2011 by Safety Directors from AMEC, URS, AREVA and BAe systems. The recommendations from this review will be addressed through actions in a 1000 day safety plan.

A team comprising safety professionals and union representatives visited the US in 2011 to review a safety programme titled MoveSmart. The training programme focuses on preventing 'back and twist' injuries and can be applied both in the workplace and at home. Back injuries account for over 50% of the lost time injuries at Sellafield.

In October 2011 Sellafield fully implemented the new whole body dosimeter. The new dosimeter replaced the current film badge which has been used since the 1940's. The new dosimeter brings Sellafield in line with up to date technology and in line with the dosimeters used at other UK nuclear Sites. The intention is to donate the old dosimeter analysis equipment to the Science Museum in London.

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# Risk & Hazard Reduction



## ***First Generation Magnox Storage Pond***

Continuing risk reduction through the isolation of redundant effluent and sludge pipelines in the FGMSP is an ongoing programme. High Level Service Line (HLSL) pipes have been removed from the facility where possible. Where dose constraints made removal of the HLSL impractical, eleven hammocks have been installed to support and capture the HLSL pipework and provide increased levels of protection.

The preparation for the Skip Handler return to service has made significant progress, with the machine moving under its own power on the pond for the first time in over 11 years. The Skip Handler is a crucial piece of equipment for future high hazard reduction and a significant programme of refurbishment or replacement is also being carried out to ensure the equipment remains in service throughout the retrievals programme.

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Significant progress has been made on the FGMSP D-Bay Operations, with 'clean & seal' activities to improve containment well under way. Following extensive trialling and mobilisation of the equipment to site, a number of the Redundant Effluent Sludge Pipework System lines have been isolated and removed safely, significantly decreasing hazard. The team is continuing work to clean and seal the pond wall.

### ***Pile Fuel Storage Pond***

Ten tonnes of contaminated material has been moved out of the pond, achieving a performance milestone for the team. This is particularly significant as the team had to resolve a number of issues with the skip handling machine. At the same time, the team has also washed sludge out of more than 40 empty skips ready for removal from the pond to make space for future retrievals. The removal of the solid waste, in addition to the sludge already removed from the pond floor and placed in the sludge corral, is a visible demonstration of the progress being made on the retrievals programme.

The PFSP also assisted the recovery operations at Fukushima by transferring a considerable amount of Ion Exchange material to Japan to enable water clean up activities to commence sooner than anticipated.

### ***Magnox Swarf Storage Silo***

Liquor Activity Reduction (LAR) associated with the mobile inventory within the facility continued to progress well after an outstanding performance last year, and have now removed over 100,000 curies\* of activity from the silo. The LAR team also received an Award of Excellence in the URS Pyramid Awards 2011 for their work. This is a significant risk reduction step for this high hazard facility and will underpin many years of future operation.

A significant programme of improvements on the plant is also progressing well. Highlights include the replacement of an air inlet by a fully engineered connection, and the start of installation of a new cavity sump emptying system.

In the Silos Direct encapsulation Plant (SDP) building site area, a crane block unexpectedly fell from an overhead crane during testing. This large and heavy item fell from considerable height and could have resulted in injury. The Health & Safety Executive carried out a subsequent investigation, and issued a formal Improvement Notice. Several improvements have been identified (particularly in legacy configuration control) and the notice has now been formally closed out. Also successfully closed out was the longer-term Improvement Notice issued associated with disconnected analysers in the MSSS facility.

\* **Curies:**  $1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq} = 37 \text{ GBq}$   
(100 mCi = 3.7 GBq)

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### ***Pile Fuel Cladding Silo***

The Licence Instrument permitting the start of construction of the Retrievals facility has been granted by the Office for Nuclear Regulation ONR and work has begun on the superstructure build. Construction of the superstructure is now up to the 4.6 metre level floor slab, and work on the control room foundations is also nearing completion.

Contracts totalling £160 million are in place with external suppliers to cover construction of the superstructure, design and build of the retrieval modules and provision of a crane to handle the 60te boxes of retrieved waste.

#### **Enablers:**

### ***Replacement HASTs***

The Project is part of the HAL Programme and supports the NDA Strategy for Magnox and Oxide Fuels. The NDA strategic review of alternative options for the management of Magnox Oxide fuels will have a direct impact on whether or not the project is required.

The design is progressing to schedule with 11 design reviews and five HAZOP studies now completed.

Geotechnical investigations of the site were completed in September, allowing a key engineering decision to be made in October regarding the construction methodology for the building foundations. The investigations mitigated a risk associated with the foundation construction, avoiding a significant increase in project cost and schedule. Research and development activities are progressing, with construction of a full-scale test rig scheduled to be complete for tests to start at the beginning of the next financial year.

A review of the project by ONR is scheduled for the end of February.

### ***Silos Maintenance Facility (SMF)***

The Silos Maintenance Facility is part of the Magnox Swarf Storage Silo (MSSS) programme. The overall scope of the project is to design and construct a facility to provide storage, loading, inspection, maintenance and decontamination in support of bulk retrievals operation for the Magnox Swarf Storage Silos (MSSS) and the Pile Fuel Cladding Silo (PFCS).

The project has achieved a three month schedule improvement through acceleration of contract placement and mobilisation. Clearance of 27,660 te of rubble and scrap

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metal from the Calder Hall southern cooling towers site was completed in September. The physical site investigation work was completed in November, eight weeks ahead of schedule. In December, the project agreed the layouts for the Flask Loading and Maintenance Cave. The project is forecasting to have final confirmation for the layout and position of the building before the end of the financial year.

### ***Box Encapsulation Plant Product Store 1 / Comprehensive Import/Export Facility (BEPPS/CIEF)***

BEPPS1-CIEF is a key enabler for Sellafield Site hazard reduction, taking waste from four main Decommissioning programmes including Pile Fuel Cladding Silo (PFCS) and Magnox Swarf Storage Silo and packaging it for safe storage. BEPPS1 store was partially constructed as part of the earlier Box Encapsulation Plant (BEP) project. CIEF is a new plant located adjacent to BEPPS1. The design is based on EPS2 and 3 with improvements incorporating learning from experience from these projects.

There is a mis-alignment between the project completion date and the PFCS requirements which have been significantly accelerated in the Performance Plan. A programme of alignment studies has been initiated to address this.

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# Spent Fuel Management



## ***Thorp Reprocessing***

In this financial year to date (08/01/2012) Thorp has achieved a shear total of 292.3 te against a Performance Plan target for the year so far of ~355te. Thorp shearing and chemical processing returned to service in late 2010 following a significant planned outage period. The Performance Plan shear target for the full financial year is 419te.

That Thorp outage also encompassed the downtime period associated with the Highly Active Evaporator C inspection which was successfully completed. The Evaporator inspection process remains a key element of continued Thorp operations and is governed by the requirements of a regulatory Licence Instrument until the availability of the new Evaporator D presently under construction.

Thorp has to date despatched over 1350te of recovered Uranium abroad to be recycled into LWR fuel on behalf of its customers with more than 3000teU of further despatches presently planned to continue into the mid 2020's.

The Thorp programme also encompasses significant support to other workstreams:

- Removal of Multi-Element Bottles (MEB's) from the Thorp pond to allow longer term storage of lifetime arisings of AGR. MEB removal is presently ahead of target, having achieved 82 removed so far, with a financial year end target of 104. Some of the previously removed MEBs (42 in total) have been despatched for final size reduction and disposal. Material from a trial of 10 of these MEBs has been sent for smelting and certifying for reintegration back into the metals recycle chain potentially reducing the amount of waste. This trial has been completed and although the final detailed report is awaited the outcome has proved positive.

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### **Magnox Reprocessing**

The Magnox Reprocessing operating unit teams continue to deliver improvements:

- AGR fuel dismantling is keeping up with available fuel stocks and making best use of the FHP storage facility.
- Calder Hall has successfully loaded and transferred the first skip of fuel to Fuel Handling Plant, the start of the defuelling programme.
- SIXEP continues to support the Liquor Activity Reduction project with several successful transfers so far this year.

The expected out turn for 2011/12 has now been reduced to 650 tes largely due to delays caused by higher than expected activity in the reprocessing plant effluent route, and problems with the Uranium production plant.

Sellafield Ltd reliability and performance improvement review has identified ways to improve the capability and reliability of the whole Magnox value stream\*, and is now in its second issue. When the plant is operating, the daily rate is showing an increased trend from the rates achieved in 2010/11.

Spent fuel shipments from the Magnox stations to Sellafield continue in line with the decanning rate, thus maintaining fuel stocks held in wet conditions.

*\* One of the key elements of underpinning information required for the development of Magnox Operating Programme 9 has been provided by the publication of Sellafield's Magnox Throughput Improvement Plan (MTIP). It was first published in March 2011 and it prioritised a number of improvement actions to mitigate known risks and facilitate a process for improving and sustaining throughput targets for recovering the MOP end date back towards March 2017.*

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# Decommissioning



*Separation Area Ventilation (SAV) team*



## **Site Remediation & Decommissioning Projects (SR&DP)**

Although water ingress and degradation continues to be an issue with the older facilities in a care and maintenance state, activities are progressing to improve environmental protection.

The Separation Area Ventilation (SAV) team has achieved 750,000 man hours without a Lost Time Accident.

The final campaign of the Windscale Advanced Gas Reactor (WAGR) decommissioning programme was successfully completed. The end of this 20 year programme enables the industrial scale power generating reactor to be placed into passive storage.

Activities to dismantle, and remove to ground, the large Pile Chimney filter gallery at the top of Pile Chimney No1 are being accelerated to remove degraded material and to improve the seismic capability of the structure. This is a substantial amount of work with over 650 tonnes of material to be lowered from the top of the building.

A number of redundant buildings have also been demolished, including a substation, oil burner and steam generator, legacy production laboratories and a pipebridge.

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# Nuclear Materials



## ***Sellafield MOX Plant***

At the end of Quarter 1 the 2011/12 target was on track. Subsequently, on 3 August 2011, NDA announced the closure of the Sellafield Mox Plant.

Work continues within MOX to process residue material into THORP cans for long term safe storage and processing of residue powders through the operational towers both of which remain ahead of schedule.

## ***Vitrified Residue Returns***

The Vitrified Residue Returns programme continues to progress ahead of the performance plan baseline, with the second and third (final) flasks of the second Japanese return being loaded and exported to the marshalling area in April and May 2011 successfully. This return shipment was also safely transported back to Japan. There was however an unexpected contamination event during container inspections in Japan, and although the containers are now within the acceptance criteria, the root cause and learning from the event continues to be established.

Works for the next overseas return shipments, scheduled for 2012, are due to commence shortly pending Japanese regulatory endorsement of process enhancements proposed for the Residue Export Facility.

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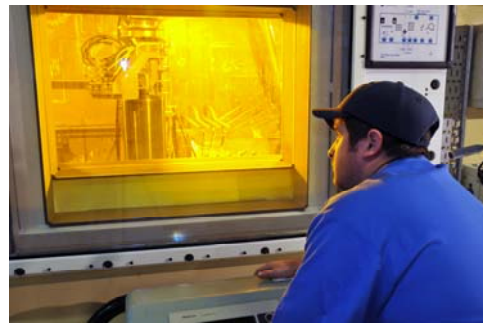
The Residues Exports Facility successfully achieved its 'consent to operate', moving out of active commissioning, this represents a major achievement and mandatory pre-requisite for the next phase of flask loading and overseas returns.

Commissioning of Sellafield Product and Residue Store SPRS continues, the last stage was achieved successfully in November, authorisation to proceed to the next stage has been granted.

The Government has identified that re-use of Plutonium is the preferred option. Sellafield Ltd's Plutonium Operating unit has been requested to support the generation of the business case in support of this option.

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# Waste Management



Since its successful restart in November 2010, Evaporator A continues to support Magnox reprocessing operations.

Evaporator B remains shutdown. Work has started to return the evaporator to operational service with a potential return to service forecasted in early to mid 2013. This is subject however to satisfactory outputs from the planned prior test rig works, and stakeholder reviews.

Evaporator C has continued to support successful THORP reprocessing accelerated performance plan throughputs, along with Magnox operations. The Quarter 3 scheduled routine inspection outage to further validate the remnant life capability for future operations has been successfully undertaken, with the results now being ratified.

With respect to ongoing Highly Active Storage Tank (HAST) strategy developments, formal HAST 17 active commissioning via a series of structured test phases has now been successfully completed. Presentation to the appropriate safety committees in December 2011 has enabled onward submission to the Regulator, thus requesting permission for this HAST to be used as part of normal operations, with delivery deemed on schedule for March 2012.

WVP throughput for financial year 10/11 out-turned at 1008 teU. Production was significantly impacted throughout the year due to a series of plant equipment integration issues, unexpected faults, line blockages, and the non-availability of WVP Line 3. A number of independent peer reviews have been conducted, and additional expertise from the parent body company has been deployed into the organisation to further improve delivery.

WVP Lines 1 and 2 operated early in 2011/12 prior to Line 1 going into a scheduled line rebuild. WVP Line 3 has now successfully been returned to

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full operational service in early September 2011, as planned, following major safety and operational process improvements. This represents a significant site achievement to support the hazard reduction mission and has been subject to extensive inspections. The FY 11/12 year end out-turn is forecasted currently to be 2210 teU, approximately. 100 teU short of the planned 2313 teU performance plan target.

This represents an improved and increased forecast from that declared earlier in the financial year due to a number of difficulties experienced mid-way through the year in blend liquor handling, an unexpected outage for Line 3, and issues experienced with the Line 1 load cell (weighing) equipment. Extensive effort has resulted in all three WVP lines being available for use for the first time in the financial year, and an out-turn of anything above 2000 teU represents a significant hazard reduction achievement, and double the productivity of the last financial year.

The Waste Treatment Complex (WTC) has performed ahead of plan and has successfully processed 2015 drums of Plutonium Contaminated Material (PCM) so far this financial year. The plant has now entered a planned outage in order to install new instrumentation for radiographic inspection of drums. A new facility has been constructed and commissioned within the older PCM stores which will be used to re-pack Plutonium contaminated filters prior to their transfer to newer engineered stores. The facility was brought into service on schedule in early December and two filter stillages have been re-packed so far with the subsequent re-packing programme taking place over the next five years.

Low Level Waste operations at WAMAC have continued to support the site by compacting waste prior to disposal at LLWR.

Metal is being re-cycled from the site with 878Te processed using on-site facilities and 176Te using off site suppliers so far this year. A contract to process and re-cycle multi element bottles from the THORP storage pond has been initiated with Studsvik at Lillyhall and 30 have now been delivered with 54 expected by the end of the year.

The Waste Encapsulation Plant (WEP) is supporting Thorp in successfully achieving the performance plan with 364 drums to store so far this financial year.

The floc retrieval programme has successfully resuspended the third legacy tank. The legacy sludge in the tank will be converted into a passive form for future disposal.

### **Enablers:**

#### ***Encapsulated Product Store 3 (EPS3)***

The Encapsulated Product Store 3 (EPS3) project is part of the Intermediate Level Waste Programme. The primary benefit is continued support to commercial reprocessing and hazard/risk reduction operations. The project provides the capability to safely interim store waste, from the remainder of commercial reprocessing

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operations, prior to export to the future Geological Disposal Facility. The project will also provide storage capacity for waste from hazard reduction activities (Legacy Ponds and Silos).

The project has continued to maintain an impressive safety record with over 700,000 man hours worked over a 23 month period without a lost time accident. There have been no RIDDOR reportable accidents since the project commenced site works in 2006.

The majority of construction activities have been completed with both vaults handed over to the commissioning teams. A certain amount of mechanical and electrical installation is continuing and commissioning activities are progressing well. A number of opportunities have been identified to streamline the commissioning process as part of a pilot for a new "risk-based commissioning" approach to construction projects.

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# Emergency Planning / Management

## **Fukushima update:**

Since the last report, Sellafield Ltd has continued to make good progress in addressing the recommendations from the ONR interim and final reports published in May and September 2011 respectively.

In addition Sellafield Ltd has applied the ENSREG (European Nuclear Safety Regulators' Group) "stress tests" to Calder Hall Nuclear Power Plant. These have been incorporated into the European Council "stress tests" for UK nuclear power plants, published by ONR on 4 January 2012. This UK report will be subject to EU peer review which will be completed in spring 2012. A public report regarding Calder Hall was published by web-link on 4 January 2012.

Calder Hall is shutdown and presently undergoing de-fuelling. In view of the long interval since the station was shutdown the facilities need no immediate support from site utilities and are therefore robust in terms of ENSREG "stress tests".

The ENSREG stress tests have also been applied across the rest of the Sellafield site and at Capenhurst. A progress report on non-nuclear power plants was published by ONR on 5 December 2011. Sellafield Ltd was committed to delivering reports to ONR on the application of "stress tests" at both sites by 31 December 2011. These were supplied ahead of the scheduled date and are now being reviewed by ONR. They will report their findings in spring 2012.

The next phase of our resilience programme is now being developed to complete responses to the ONR report recommendations. Sellafield Ltd anticipates a further report on wider resilience issues in summer 2012.

## **Emergency Planning update:**

Work has been ongoing since the last WCSSG meeting with Sellafield Ltd representatives and the Chairman of the WCSSG Emergency Planning Sub Committee, to ensure the committee adequately covers key Emergency Planning related programmes of work at Sellafield.

In addition to the current focus on the Sellafield emergency exercise schedule it has been proposed that routine agenda items at the Emergency Planning sub committee would also cover the Emergency Management Programme, Post-Fukushima

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Response Programme, Business Continuity Development and emerging issues. This revised agenda will be subject to ratification at the next meeting of the sub-committee.

Sellafield Limited will continue to provide the secretary for the meeting and will provide additional resources to report on the agenda items proposed.

Agreement has also been reached with the regulator to enable the terms of reference to include the following purpose:

To provide a forum in which the community can ask questions about the Sellafield (including Windscale) Off-Site Emergency Plan and other plans concerned with ensuring safety and security\* at the nuclear licensed sites.

This agreement being made with the following condition:

**\* reports and discussions relating to security matters will not contain detailed information due to the sensitivity of the subject.**

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# Socio Economics



What does good socio-economic performance look like? That's a question we're often asked by our stakeholders, and so we've asked an independent expert to carry out a benchmarking exercise to review what we currently deliver compared with other large economic actors in Europe. We will use this information to develop a set of socio-economic metrics against which we will be measured next year.

An important aspect of Sellafield's impact on the local economy is the money we spend on goods and services. We are working with our local authorities in a new supply chain framework agreement, aimed at helping the community see more socio-economic benefit from the money we spend in the supply chain while allowing us to meet our commitment to get best value for the UK tax payer. An analysis of Sellafield's interaction with the local supply chain in 2010/2011 will shortly report, providing information on socio-economic impact.

Sellafield Ltd and our parent company, NMP, work closely with Britain's Energy Coast to ensure the funding we provide is used to deliver long-term benefit to West Cumbria by helping to maximize existing activity and diversify the local economy. Our contribution is not just money; we also provide professional support and look for opportunities to share ideas from other communities that have had similar issues.

As part of this programme, Fred Humes, Director of Economic Development Partnership in Aiken, USA visited Sellafield in August. Mr Humes has an impressive track record of socio-economic development and helped develop exciting new projects including the Aiken County Research Campus, the South Carolina hydrogen initiatives, and the Savannah River Research Park.

Sellafield's financial contribution to the socio-economic programme this year includes £2.5m to Britain's Energy Coast, which they then administer against their agreed priority projects list. Sellafield Ltd also donated £150,000 to Invest in Cumbria and we

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continue our support of smaller donations across West Cumbria along with employee match funding aimed at supporting individuals' own fund raising efforts.

Developing skills for the future is another priority for Sellafield Ltd. Our dedicated team of STEM (Science, Technology, Engineering and Maths) ambassadors continues to provide a varied programme of educational events to schools in our travel to work area. We work in partnership with external education providers and businesses within our local supply chain including AMEC, Babcock, UCLAN, NNL, CNC Police and REACT. This year saw the first Cumbrian Science Festival which brought together various activities for local schools and the general public.

We're also investing in the next generation of nuclear workers, including a new apprentice intake that started in September with 87 Sellafield Ltd apprentices and 25 community apprentices. This complements a new intake of 34 graduates across Sellafield Ltd.

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# Events

Since the last scrutiny meeting in April 2011, the following incident reports have been published in the Sellafield newsletter. Further information can be found at [www.sellafieldsites.com](http://www.sellafieldsites.com)

Newsletter	Description
April 2011	Evidence of contamination identified on an area of wall on a transfer tower with the sites separation area
May 2011	Road traffic collision on Sellafield site involving the movement of a boom type mobile elevating work platform (MEWP)
May 2011	Historic alpha and beta contamination detected on the ground at the rear of the Research and Development Analytical Laboratory
June 2011	During skip handling operations within the decommissioning area, a skip was found not to have been positioned on the skip tipper correctly
July 2011	Having collected a number of empty oil drums from a redundant non-nuclear building a contractor on approaching the main gate was stopped and informed the gate monitoring system had detected anomalies – 7 of 46 drums were withdrawn and quarantined as they exceeded the consignment criteria
July 2011	The Sellafield site temporarily lost steam generation capacity, following an issue outside of SLs control at the Combined Heat and Power Plant
September 2011	Disposal of clinoptilolite to landfill potentially breaching the hazardous waste regulations – EA carrying out an investigation
October 2011	A can containing irradiated fuel pins was identified as having eight of the 15 pins higher pre-irradiation enrichment levels
November 2011	Urine sample found to be positive from an air fed suit worker – further analysis identified the possibility of a dose above 10 per cent of a legal limit but likely to be less than 40 per cent of that limit – further sample assessment is necessary to confirm and quantify intake.
December 2011	During a routine review of the Waste Packaging Plant (WPEP) an anomaly was identified in that a grout preparation area extract to atmosphere was not registered in the site discharge permit where it should be registered as an “other outlet”

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# Acronyms:

ACEMAN	-	Accident free, Control dose, Event free, Meet commitments, Attend and use training, Nil rework
AFO	-	Authorised firearms officers
AGR	-	Advanced Gas Cooled Reactor
ASW	-	Agency Supplied Worker
BERR	-	Business Enterprise and Regulatory Reform
BNGSL	-	British Nuclear Group Limited
BOC	-	Bottom Outer Coil
CAGR	-	Civil Advanced Gas Reactor
CHPP	-	Combined Heat and Power Plant
COBRA	-	Cabinet Office Briefing Room 'A'
COGEMA	-	French government owned nuclear group
CNC	-	Civil Nuclear Constabulary
CSW	-	Contractor Supplied Worker
CT	-	Counter Terrorism
DACR	-	Days Away Case Rate
DTI	-	Department of Trade and Industry
EAC	-	Endorsement for Active Commissioning
EARP	-	Enhanced Actinide Removal Plant
E&EP	-	Effluent and Encapsulation Plant
EHS&Q	-	Environmental Health, Safety and Quality
EPS	-	Encapsulation Plant Store
EPS2	-	Encapsulation Plant Store 2
FCRT	-	Fuel Channel Retrieval Tool
FHP	-	Fuel Handling Plant
HA	-	Highly Active
HAL	-	High Active Liquor
HALES	-	Highly Active Liquor Evaporative Storage
HANO	-	Highly Active North Cell
HAST	-	Highly Active Storage Tank
HAW	-	Highly Active Waste
HLWP	-	High Level Waste Plant
HMIC	-	Her Majesty's Inspectorate of Constabulary
HSE	-	Health & Safety Executive
ILW	-	Intermediate Level Waste
INES	-	International Nuclear Event Scale
INS	-	International Nuclear Services
LLW	-	Low Level Waste
LLWR	-	Low Level Waste Repository
LRQA	-	Lloyds Register Quality Assurance
LTA	-	Lost Time Accident

## Sellafield Ltd Managing Director's report to WCSSG

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LTP	-	Life Time Plan
MA	-	Medium Active
MAC	-	Medium Active Concentrate
MER	-	Magnox East River
MBGWS	-	Miscellaneous Beta Gamma Waste Store
MOX	-	Mixed Oxide
NDA	-	Nuclear Decommissioning Authority
ND&MPG	-	Nuclear Decommissioning and Major Project Group
NII	-	Nuclear Installations Inspectorate
NOK	-	Nordostschweizerische Kraftwerke AG - Swedish Utility
NM	-	Nuclear Material
OCNS	-	Office of Civil Nuclear Security
ORM	-	Other Radioactive Material
ORSE	-	Organisation, Review and Self Evaluation
OSHA	-	Occupational Safety & Health Administration
PACSR	-	Pre-Active Commissioning Safety Report
PCM	-	Plutonium Contaminated Material
PF&S	-	Plutonium Finishing and Storage
REF	-	Residues Export Facility
RIDDOR	-	Reporting of Injuries, Diseases & Dangerous Occurrences Regulations
QA	-	Quality Assurance
ROV	-	Remotely Operated Vehicle
SAV	-	Separation Area Ventilation
SDP	-	Silos Direct Encapsulation Plant
S&DNSC	-	Sellafield and Drigg Nuclear Safety Committee
SMP	-	Sellafield Mox Plant
SOCPA	-	Serious Organised Crime and Police Act
SPP1	-	Sludge Packaging Plant 1
SPRS	-	Sellafield Products Residues Store
THORP	-	Thermal Oxide Reprocessing Plant
TPFL	-	Thorp Plutonium Finishing Line
TRC	-	Technical and Residues sub committee
UKAEA	-	United Kingdom Atomic Energy Authority
UKSO	-	UK Safeguards Office
VIT	-	Vitrification
VPS	-	Vitrification Product Store
WANO	-	World Association of Nuclear Operators
WCDA	-	West Cumbria Development Agency
WCDF	-	West Cumbria Development Fund
WCSSG	-	West Cumbria Sites Stakeholder Group
WEP	-	Waste Encapsulation Plant
WPEP	-	Waste Packaging and Encapsulation Plant
WTC	-	Waste Treatment Complex
WVP	-	Waste Vitrification Plant