

**Sellafield Ltd Report to the WCSSG Decommissioning Sub Committee**
**Sellafield Ltd Business & Safety Performance Statistics at Year End (2009/10)**

<b>No of Total Recordable Incidents</b>	<b>77</b> (decrease in the figure at the end of year 2008/09 which was recorded at 81).
<b>No of Days Away Cases</b>	<b>53</b> (increase in the figure at the end of 2008/09 which was recorded at 41 – largely down to behavioural factors)
<b>No of INES Level Events</b>	<b>6</b>
<b>CPI</b> Cost Performance Index	<b>1.07</b> This is a positive out turn meaning that each pounds worth of work was delivered for 93p meaning a cost saving of 7p in every pound spent.
<b>SPI</b> Scheduled Performance Index	<b>0.98</b> This means that 98% of the scheduled work was delivered within the year.

**Safety**

Sellafield Peer to Peer Observation process has been launched this month. This is the first phase of our revised observation programme and the objective is for everyone in the organisation to complete at least one observation per month. The aim is to complete 100,000 observations in the first twelve months noting that if only 1% of the observations prevent 'at risk' behaviours then we could potentially prevent 1000 accidents/events per year. Safety Representatives have been very supportive of the approach.

The site has achieved a significant milestone with the completion of one of the largest asbestos removal projects in Europe. The project, which is part of the decommissioning of the Calder Hall nuclear power station, involved the safe removal of 2300 tonnes of asbestos cladding. The project itself has taken five years to complete, has involved almost 1 million man hours of work and has been a significant success delivering under budget and saving £1.33m against the sanctioned spend.

**Production Operations**

Thorp operated successfully during the year within the constraints associated with highly active evaporator availability. Overall nearly 220te were reprocessed against a planned target of 200te.

Receipts of AGR fuel, and work to create longer term capacity for future AGR fuel arisings, proceeded on track during the year.

Magnox reprocessing achieved its revised programme target of 450te. The target was revised downwards during the course of the year to reflect

receiving less fuel than planned and the impact of support services outages and a restriction on discharges of Antimony, both of which reduced throughput significantly during the year.

The Sellafield MOX Plant had a very successful year, with 8 fuel assemblies being completed ahead of schedule in the Summer and excellent progress being sustained with the next set of assemblies in the remainder of the year. A new record for pellet production was achieved.

### **Waste Management**

Stocks of highly active liquor end the year well below the volumes detailed in the revised NII specification.

All three existing Evaporators A,B and C were used to support site operations during the year with periods of outage for engineering work and inspections having some impact on reprocessing programmes. A very successful inspection programme on Evaporator C has given additional confidence in the ability to support Thorp reprocessing for this financial year.

Vitrification output achieved 382 containers against a target of 400. Long periods of sustained operation of Line 2 resulted in 200 containers from that particular line. Engineering maintenance and improvement activities on Line 3 in particular have been carried out to improve reliability for future years.

Overall, therefore, during the past year HA liquor equivalent to the reprocessing of 3000te (Uranium) was planned. The plant achieved substantially more with the equivalent of 4600te (Uranium) being vitrified. This has further reduced the stocks of HA liquor.

A significant achievement during the year was the successful export of vitrified residues to customers in Japan and Europe.

Retrieval of legacy liquors from redundant settling tanks proceeded as programmed with the target volumes being achieved significantly ahead of schedule. These liquors were processed through the effluent plants and the radioactive content safely encapsulated.

Other notable successes in waste management were achieved in treating the Plutonium Contaminated Material. These record throughputs were achieved, significantly exceeding the programmed target of 1665 drums with over 1900 drums being processed. In addition, the on-site metals recycling facility also exceeded programmed throughput with around 660te being processed.

### **Project Management**

Evaporator D project was sanctioned by Government early in the year and has proceeded at pace. The placement of concrete for the base, and much of the building structure, is well advanced. A modular approach to construction of the process equipment has been adopted to reduce programme risk.

Planning permission has been granted for a temporary bridge across the River Ehen and a ramp on the beach to off-load the modules. A successful trial of the barge and equipment was completed in December.

The construction of the Sellafield Product and Residue Store has been completed and commissioning is well underway. This project was commended as one of five finalists in the construction category of Best Health and Safety Achievements at the IOSH Awards this year. Over 1.7 million man-hours were worked without a Lost time Accident.

Construction work for the third Engineered Drum store is well advanced.