

# Decide!



## NEWS

JULY 2016

### FEATURES:

DST Software Upgrade v 2.1	1
DST User Group	1
DSM 'Making more vitamins with SALVO & DST'	1
Training Courses	2
Contact us	2

Turning technical problems into clear business benefits

### DST Software Upgrade

As a result of your feedback, we have made some great new enhancements to the **DST Asset Strategy Evaluator** toolkit and we are pleased to announce the release of v2.1. The new features include:

- Extended report generator with multiple formats, configuring and editing options.
- English, French and Spanish language interchangeability in all modules.
- Improved library management: Display options, navigation and multiple decision importing/exporting.
- DST Inventory Optimizer: Modelling of additional system configurations (hot/cold standby units).

### Making more vitamins with the SALVO Process & DST

DSM Nutritional Products (DSM) have been using the **SALVO** process and the **DST** toolkit to help them make better decisions about replacement and/or upgrading of aging production equipment.

The Dalry site was established in southern Scotland in 1958 as a single production line manufacturing vitamin A. Since then, major investments have transformed the site from into a highly-automated multi-line operation, making Vitamin C, Vitamin B5 and Panthenol.

DSM selected **DST Lifespan™** so that the next phase of major investments (a ten year lifetime extension plan), has a clear and robust business case. **DST Lifespan™** is a highly flexible decision-support tool used to identify the best value mix of capital investment, operating and maintenance costs, reliability/risks, asset performance and refurbishment or replacement interventions.

*Story continued on page 2*

### User Group Meeting 2016

The annual **DST User Group** meeting will be held on **Friday 25 November** at London Underground's offices in London. This follows the 2-day IET Asset Management conference, also in London, for those who would like to attend both.

The format of the **DST** event will include **sharing of experiences** and **case studies**, themed **discussion sessions** and opportunities to explore **innovations** and **future developments**.

We strongly encourage all **APT** and **DST** users and sponsors to participate, and bring along examples, questions and ideas. Particular topics of focus this year will be:

- Obsolescence/renewal/life extension of aging assets.
- Critical spares: Justifying purchase or disposal.
- Minor projects: Evaluations, comparisons and proving which are *not* worth doing.
- Extending intervals between shutdowns.



### Training Courses

TWPL Academy is running a number of public training courses during 2016 in London, Birmingham and Manchester.

These include topics such as Asset Management Decision-Making, the SALVO Process, reliability engineering, maintenance optimization and critical spares decisions.

For more information go to page 2.

*These unique 'what if?' tools identify the optimal timing and intervals for maintenance, inspection or renewal.*



## DSM Nutritional Products

*Story continued from front page*

The project has studied over 50 equipment items so far, covering pumps, blowers, centrifuges, mixers, distillation columns, boilers, super heaters, heat exchangers, vessels, tanks and silos. As well as providing the business case for optimal replacement timing, the process has also identified several areas where alternative options provide a far more cost-effective solution. Examples include pipework modifications and software upgrades to eliminate the need for centrifuge replacement, up-sizing of heat exchangers to reduce operational costs and improve product output, and improved operational processes to defer the need to bring a new silo on line.

David Deary, project support manager for DSM said; *'The SALVO process and DST toolkit is helping us identify and demonstrate the best time to replace a wide range of deteriorating or obsolete assets and also show how much extra asset life can be achieved by overhaul or refurbishment. DST's expert facilitation services have been invaluable in justifying investment and optimal timing around asset replacement and life extension decisions.'*

## Training Courses 2016

TWPL Academy's technical training courses are outlined below.

**Optimizing critical spares decisions**  
5 – 6 July 2016, Birmingham

**Asset managing decision making: The SALVO Process**  
14 – 15 September 2016, London

**Reliability engineering and maintenance optimization**  
25 – 27 October 2016, Manchester

*For more information contact Luc Juffkins at TWPL Academy:*

**Tel: +44 (0) 1635 298800**

**Email: [luc.juffkings@twpl.com](mailto:luc.juffkings@twpl.com) or register online**

**[www.assetmanagementacademy.com](http://www.assetmanagementacademy.com)**

## Case Study: Testing Regime for 11kV Circuit Breaker

**Problem description: How frequently should functional testing be carried out on 11kV circuit breakers?**

In this case the organisation was seeking to reduce costs whilst maintaining performance and managing risks by optimizing their maintenance strategy. Intervals for intrusive planned maintenance had been extended, with increased use being made of condition monitoring techniques to target activities where they are needed.

There was a long-established practice of annual trip test operation of circuit breakers but the organisation wanted to ascertain whether this was a worthwhile exercise, and to determine the optimum frequency that such testing should be carried out.

### Results and benefits

The cost/risk calculations revealed that the optimal interval for testing was at **48 months**, rather than the existing 12 monthly cycle. This extension of testing interval yields a **c.75% reduction of overall business impact (costs and risks)**. For the population of 4,000 such circuit breakers this represents a saving of **£156,000 per year**.

### The study we performed

We were called to support a multi-disciplined team study of the optimal testing strategy using the **SALVO Process**. This provides a structured navigation and evaluation discipline to ensure all factors, stakeholder interests, uncertainties and scenarios were explored, quantified and evaluated on a consistent and auditable basis. This process was supported by real-time cost/risk modelling and 'what if?' calculations using the **DST Inspection Evaluator™** tool.

## Contact us

Decision Support Tools Ltd  
19 Prince Henry House  
Kingsclere Business Park  
Kingsclere, Hampshire. RG20 4SW. UK

Tel + 44 (0) 1635 299200  
[enquiries@decisionsupporttools.com](mailto:enquiries@decisionsupporttools.com)  
[www.decisionsupporttools.com](http://www.decisionsupporttools.com)