



# Systematic Planning

## For Environmental and Site Delicensing Decision Making

### Providing Systematic Planning capability to the UK nuclear sector

Based on objective, rigorous methods and a graded approach, systematic planning is the first and most essential element in decision-making for all our Environmental and Delicensing projects. Using the Data Quality Objectives (DQO) methodology with the use of VSP (Visual Sample Plan) software, Orano Limited supports its clients in demonstrating compliance with UK industry regulations in a concrete and transparent way.

### USEPA's Data Quality Objectives (DQO)

The US Environmental Protection Agency's (USEPA) DQO methodology is based on scientific methods, requiring clear objectives from the outset of a project and a demonstration of acceptable results. The methodology gives transparency to all assumptions made and utilises statistical and non-statistical techniques to support decisions. The DQO fosters a collaborative partnership approach, facilitating seamless communication among all departments and individuals throughout every stage of the decision-making journey.

**Orano's Environmental and Delicensing Team is dedicated to providing clients with the confidence to make well-informed decisions based on defensible data in all their environmental and delicensing projects.**

### The 7 Steps of the DQO

1. State the problem
2. Identify the goals of the study (decision)
3. Identify information inputs
4. Define the boundaries of the study
5. Develop the analytical approach (decision rule)
6. Specify performance or acceptance criteria (tolerance for decision errors)
7. Develop the plan for obtaining data (sampling design)

Although followed in a sequence, the DQO is not linear. The Environmental and Delicensing team at Orano Limited ensures that decision-making is objective, well-informed and precise by revisiting and reviewing prior steps when necessary as new information becomes available throughout the project lifecycle.

# What do we offer?

Through effective systematic planning, we offer clients the following:

- ✓ Time-efficiency
- ✓ Resource and cost optimisation
- ✓ Ability to meet regulatory and client requirements
- ✓ Transparency
- ✓ Continuous improvement
- ✓ Preventing the collection of inappropriate or too much data

Through adopting the DQO, Orano Limited facilitates comprehensive investigations that allocates project time and resources in a pertinent and appropriate way. The process establishes robust acceptance criteria for the collection, evaluation or use of data. It ensures that the data collected is of the correct type, quality and quantity and that it is appropriately assessed, accounting for inherent uncertainties. This methodology enables for efficient planning and therefore, effective remediation and delicensing/relicensing efforts.



## Why choose

## Orano Limited?

With nearly 20 years of experience in systematic planning and the DQO, Orano Limited has provided planning and data collection services to projects ranging from a single tank through to a whole facility. With a member of the Environmental and Delicensing team appointed by Pacific Northwest National Laboratory (PNNL) as the only UK based beta tester for VSP (Visual Sample Plan), Orano Limited is at the forefront of providing systematic planning services to the industry. We are experienced in communicating with the full range of stakeholders, from collection operatives to regulators, and also attend and participate in a number of regulatory meetings, academic conferences and UK CBRN (Chemical, Biological, Radiological, Nuclear) activities. Our team has produced a range of detailed reports and dose justifications, guidance and policy documentation for environmental and de-licensing, sampling and analysis plans, along with data processing and statistical data assessments.



Orano Limited acts as the UK gateway to the global expertise of the Orano group, working with the UK's major nuclear clients on some of the sector's highest profile challenges. With expertise across the fuel cycle, Orano is a world leader in nuclear, with 17,000 employees across the world.

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