Building a Winning Formula
HOTLAB 2019 TAMIL NADU, INDIA

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INTRODUCTION
AQUILA NUCLEAR, ACTIVITIES

MARKETS & TERRITORIES
• Nuclear & Nuclear Medicines, in UK, Europe, USA and Japan

TARGET MARKET SECTORS IN NUCLEAR
• Decommissioning
• Plant Life Extension
• Research & Development
• Defence
• New Nuclear Build
WE STRIVE TO PROVIDE…

**EXCELLENCE** in everything we do

An environment for the highest **ETHICAL** behaviour

The most **ELITE** service in our field
ESS SHAFT CUTTING STATION

BACKGROUND
• Awarded 2018
• Client is UKAEA
• Completion due Q4 2021

OBJECTIVE
• Receive, orientate and hold irradiated Target Components
• Size reduce irradiated Target Components for onward processing / storage
DIAMOND WIRE CUTTING ASSEMBLY

- Aquila selected diamond wire as most suitable cutting solution
- Made up of three sections
- Houses multiple pulleys for tensioning the wire
- Assembly is lifted into position for each defined cut
STATIC RECEIPT BED

- Pivot assembly receives Target Component in the vertical
- Orientates into the horizontal onto the bed
- Target Component rests on dedicated ‘packers’ that are interchangeable
ESTABLISHING AWARENESS
AWARENESS

• Process is king
• For the cutting station, the process of size reduction established Aquila’s risk appetite
• Aquila opted for a proven and available technology – diamond wire
• We engaged a third party to support
SUCCESS FACTORS
DEFINING SUCCESS FACTORS

For cutting station:

(1) Value for money for the UK taxpayer was commercially fundamental
   • Minimising project costs
   • Delivering compliance

(2) Affordability
   • Minimising operational and maintenance costs
STATIC RECEIPT BED
SUMMARY
THE WINNING FORMULA

Aquila’s philosophy for building a winning formula:

• Awareness helps to identify and manage potential risks
• Success factors steer the development of solutions with risk in mind
• Collaboration sets the standard amongst all parties, and supports management of risk
• Assurance ensures parties have a vested interest in the works and supports delivery