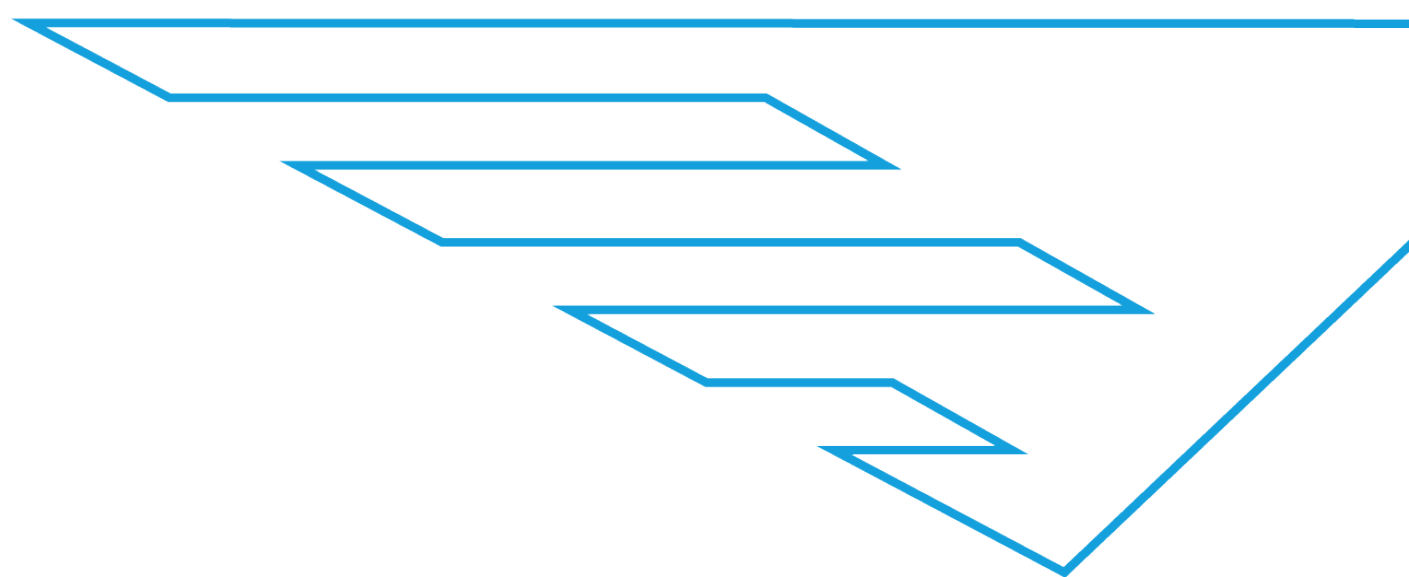




Building a Winning Formula

HOTLAB 2019 TAMIL NADU, INDIA

Prepared by Steve Barker,
Commercial Specialist



CONTENT

- INTRODUCTION
- CASE STUDY
- ESTABLISHING AWARENESS
- SETTING SUCCESS FACTORS
- SUMMARY

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

AQUILA NUCLEAR, CAPABILITIES



WE STRIVE TO PROVIDE...



EXCELLENCE in everything we do



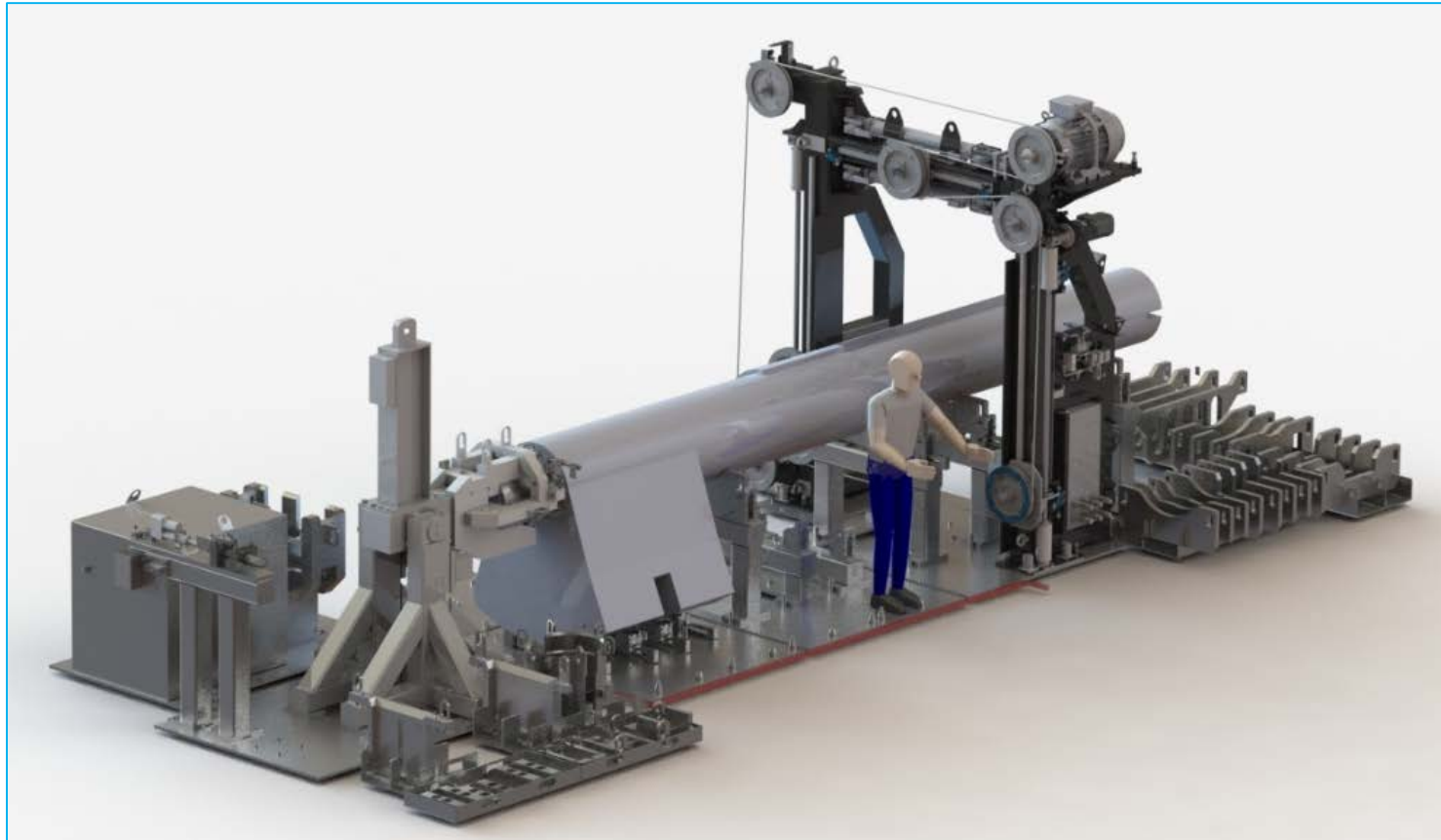
An environment for the highest **ETHICAL** behaviour



The most **ELITE** service in our field

CASE STUDY

ESS SHAFT CUTTING STATION



BACKGROUND

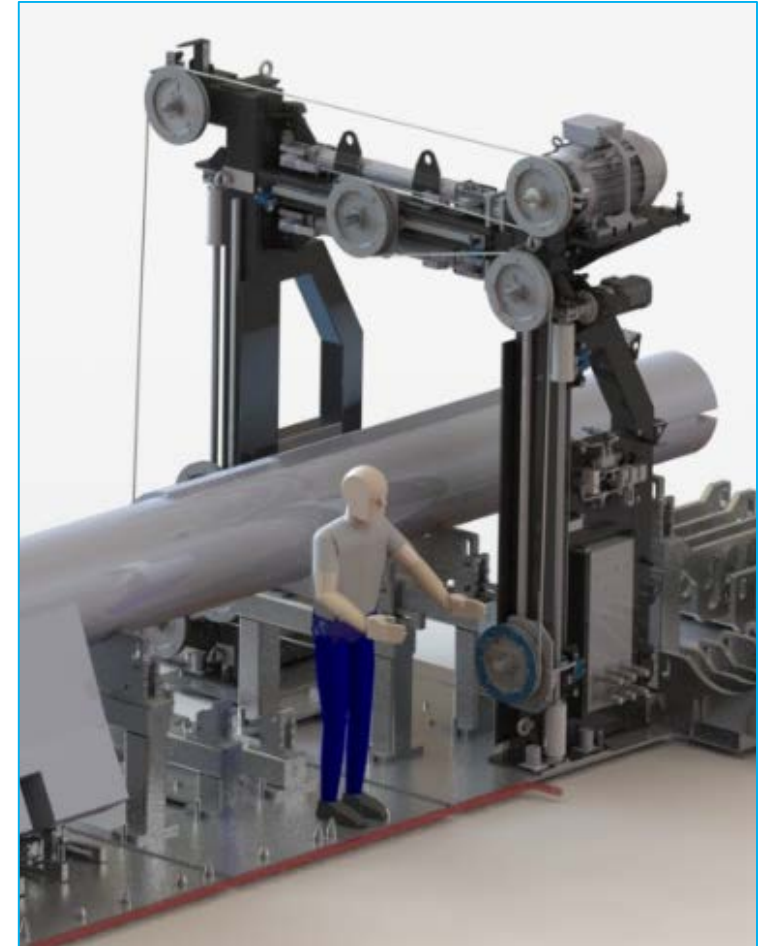
- Awarded 2018
- Client is UKAEA
- Completion due Q4 2021

OBJECTIVE

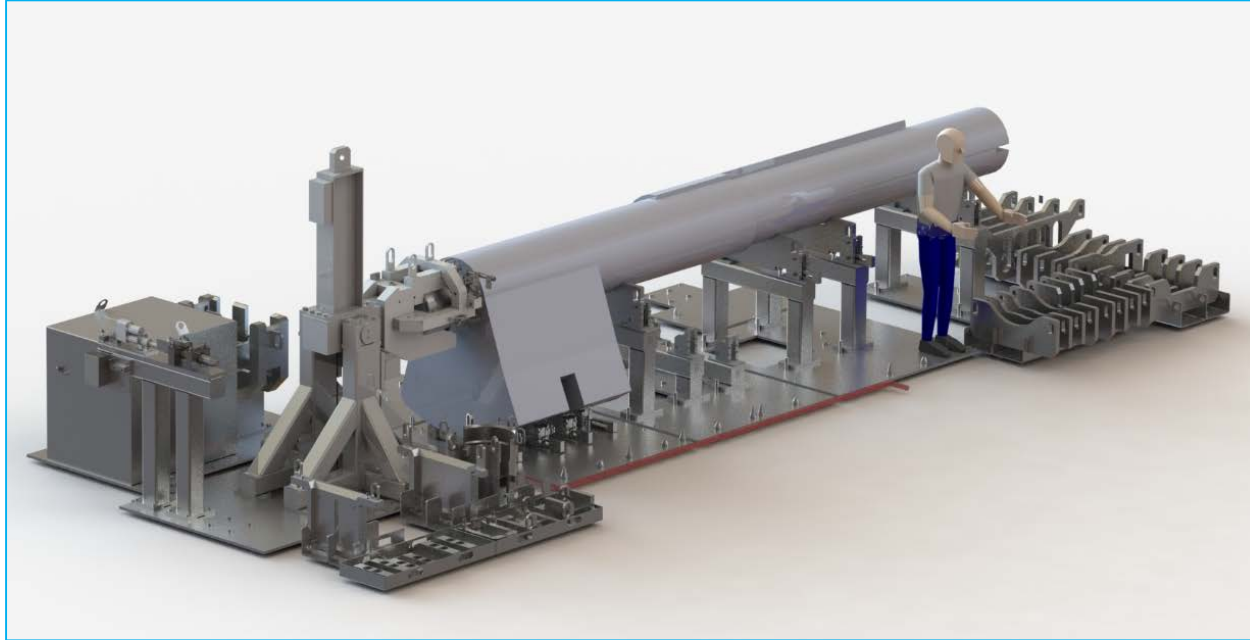
- Receive, orientate and hold irradiated Target Components
- Size reduce irradiated Target Components for onward processing / storage

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

Aquila Nuclear Engineering Ltd 

Design and Manufacture of HOT CELLS






Process is King

Prepared for 51st Annual Meeting HOTLAB-2014 at Paul Scherrer Institute Baden, Switzerland

21st -25th September 2014

Contents

A.	Introduction to Aquila Influence Diagram.....	1
B.	Introduction to Aquila.....	1
C.	"Process is King" Hot Cell Design & Manufacture.....	2
D.	Shielding.....	5
E.	Containment, Isolation and Gloveboxes.....	7
F.	Classification of Containments.....	7
G.	Containment Assembly, Leak Testing and Flow.....	8
H.	Conclusions.....	8

www.aquilaeurope.eu Find us on -      A Calder Group Company

SUCCESS FACTORS

DEFINING SUCCESS FACTORS

For cutting station:

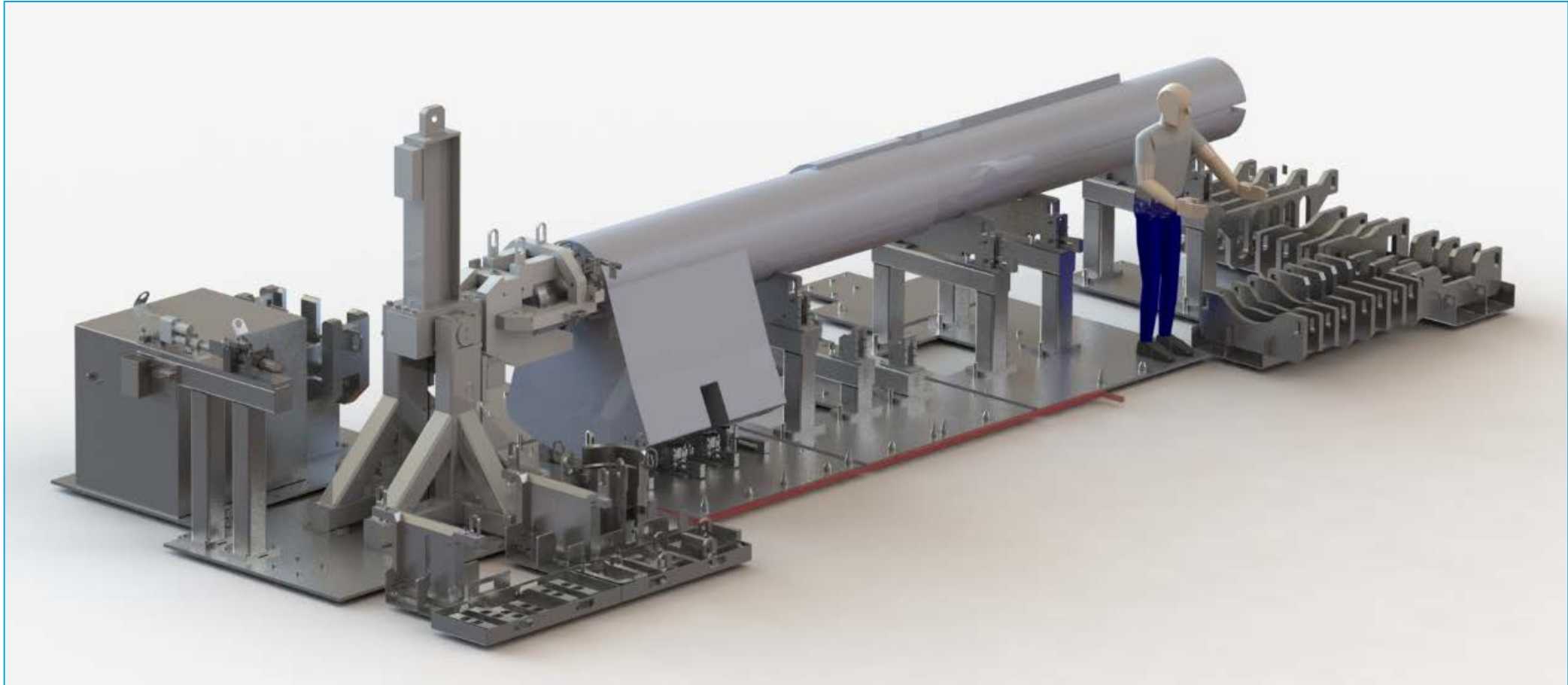
(1) Value for money for the UK taxpayer was commercially fundamental

- 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

THANK YOU

Aquila Nuclear Engineering Limited

Aquila House

Hazeley Enterprise Park

Hazeley Road

Twyford

SO21 1QA

United Kingdom

Tel : +44(0) 1962 717 000

Sales : sales@aquilaeurope.eu

Email : info@aquilaeurope.eu





Aquila Nuclear Engineering is part of
the Calder Group