AVEXIS

From PhD Project to Sellafield Deployment

Barry Lennox
Professor of Nuclear Engineering Decommissioning
The Early Years (2012: Simon Watson) ...

Project was a continuation of a research council investigation to develop a wireless sensor network for monitoring grain silos.
Remit from Sellafield was to design an HD camera equipped ROV capable of being deployed through a 6 inch port to explore a legacy storage pond.

Funded by UoM IAA and Sellafield.

Technical work completed by Arron Griffiths, UoM
AVEXIS: Commercial Product

Innovus provided funding to develop commercial prototype
AVEXIS: Sellafield deployment

Initial deployment to be at MSSS
AVEXIS: The future …

Working with Lancaster University, The National Maritime Research Institute and JAEA, we are designing novel AVEXIS systems to explore and characterise the reactors at the Fukushima Daiichi NPP.

Technical work being completed by Matthew Nancekievill
AVEXIS: The future - Autonomy

• Untethered
• Multiple units operating together to provide continuous monitoring of environments
• Requires:
  • recharging station
  • underwater positioning and communications system
• Funding!

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