



Advances in Maestro Robotic Dexterous Manipulation for Nuclear Hot Cell Decommissioning

ERF nuclear robotics workshop 2017

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Joël vanden Bosch

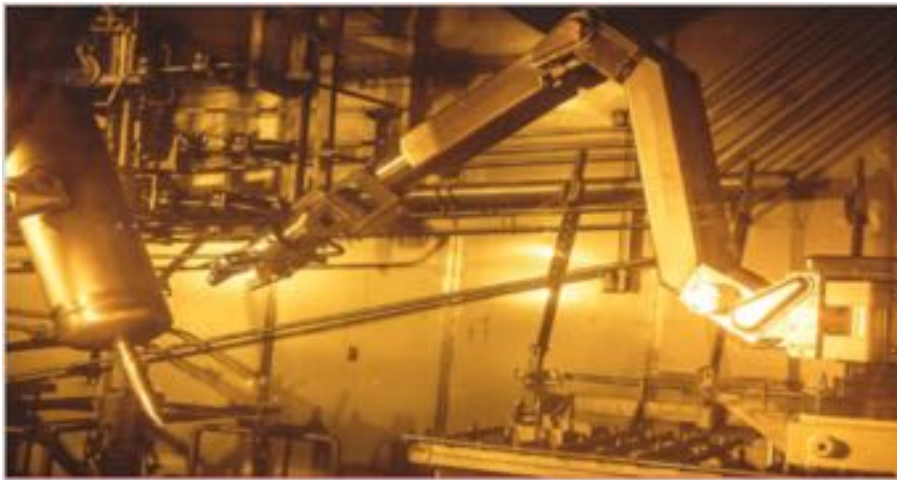


Dismantling Hot Cells with (Maestro) Robotic Dexterous Manipulation Process is now a reality

CEA APM Cell 414

Hot Cell Operation started in June 2015

- ▶ Several MT of Radwaste produced



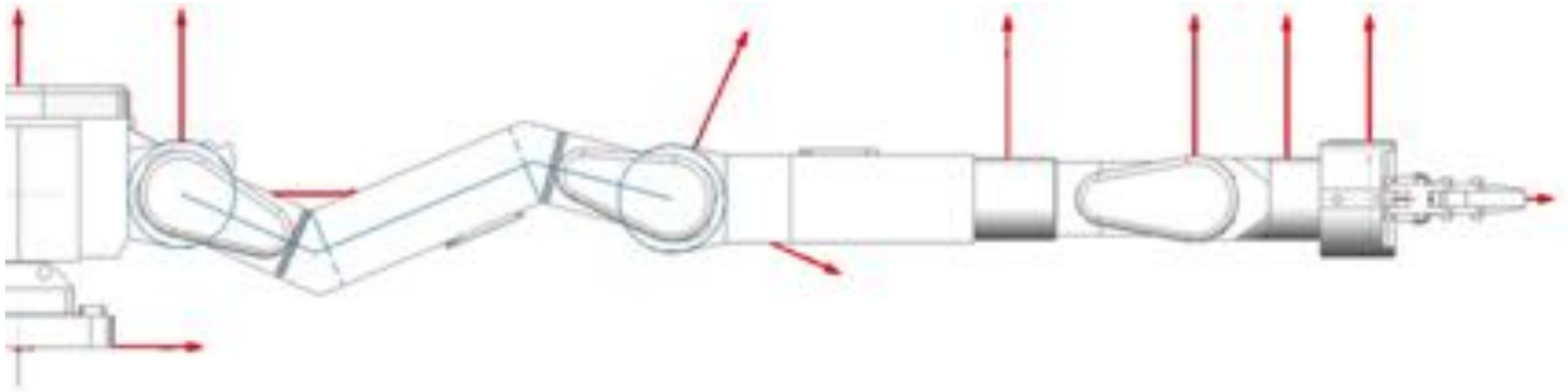
CEA UP1 MAR200

Hot Cell Operation started Q4, 2015

- ▶ More than 1 000 pieces laser



Maintenance and Repair of Maestro Robotic Dexterous Manipulator = Proven Achievable



The Next Challenge ?

“Decommissioning operations run over Budget and Planning !”

Addressable Issues

- ▶ Uptime of the Robotic Remote Handling system: Slave Manipulator, Tooling in Cell, Carrier ...
- ▶ Gap between the foreseen Scenario and the Operation in Hot Cell



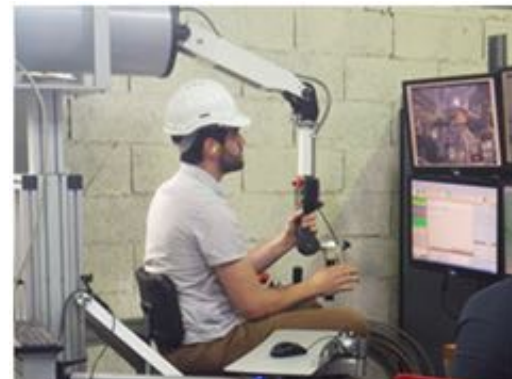
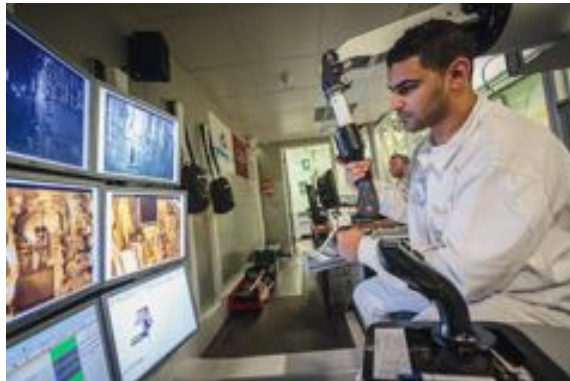
Approach to Reduce (drastically) the Over-Run

CyXpro ® Supervision Software Plat-Form used as a “Network” to help to manage the Hot Cell operation

Opportunities

- ▶ “on line” and Monitoring capabilities: Predictive Maintenance Planning according taking into account the efforts sustained by the Maestro equipment and the planning of operation
- ▶ Help to detect and monitor (correct) early gaps between the foreseen scenario foreseen and the operation in Hot Cell
- ▶ Decision Making Tool: Movements and Trajectories optimization

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Thank you
Question ?

Joël vanden Bosch
Business Development Cybernetix
jvandenbosch@cybernetix.fr
+33 (0)4 91 21 77 75

