



# 4-FACE FUEL INSPECTION

## FOUR SIDED FUEL INSPECTION

The 4-FACE Fuel Inspection is performed during regular offload in a PWR to find failed fuel. A system of four HD cameras mounted on a frame is placed above the upender to record a video of all four sides and the bottom nozzle of each fuel assembly passing by. This gives an immediate verification of fuel assembly integrity, without affecting the critical path.

## APPLICATIONS

- Quad-side fuel inspection during regular offload, without affecting the critical path
- 5th camera or tilt function for bottom nozzle inspection
- Customer adapted turnkey system with HW, SW, installation and commissioning, ready for use
- Custom built 4-FACE fuel inspection software included featuring video recording, playback of recorded files, slow motion in playback mode, text and audio input in recorded files and image measuring

## BENEFITS

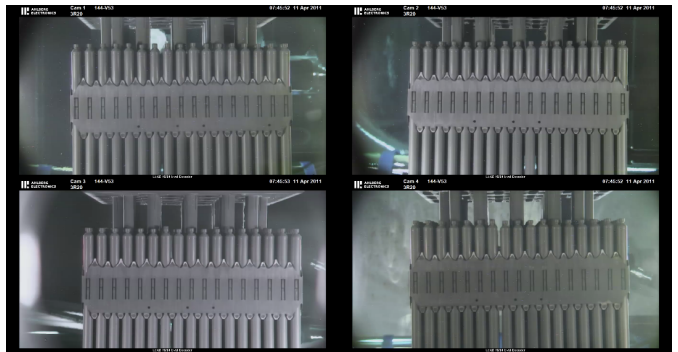
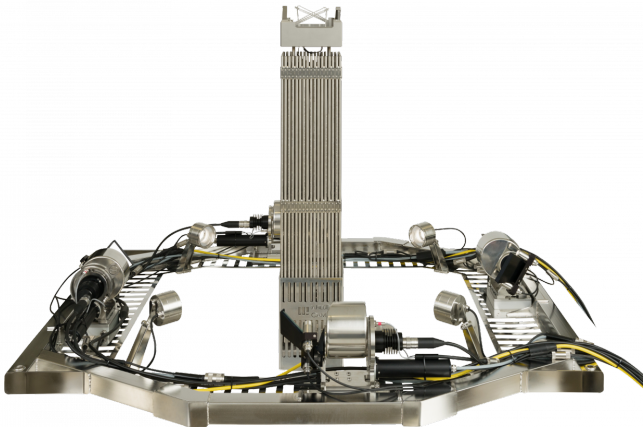
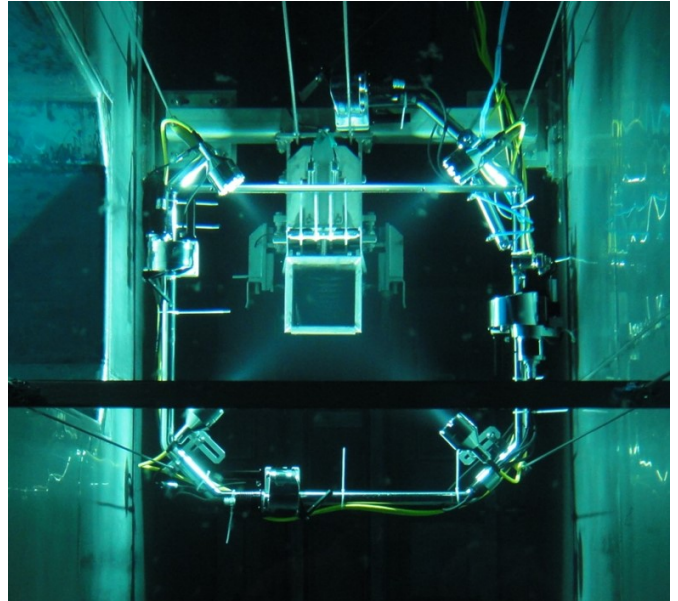
- Inspection of all four sides and bottom nozzle of fuel assemblies simultaneously
- Extensive zoom capabilities, x10 optical x10 digital, facilitate to find fuel failures
- Monitor can shift between one-side or quad-side mode, showing either one side of the fuel or all four sides at the same time
- Additional software available, e.g. bow measurement software for instant calculation of bending of fuel assemblies
- Possibility to stream video over the NPPs computer network
- Proven functionality; more than 45 4-FACE systems installed world-wide

## SPECIFICATIONS

Material of components	Stainless steel, anodized aluminum
Weight of components	ca 400 kg (ca 880 lbs)
Maximum temperature	70°C (158°F)
Water tightness	min 3.5 bar (min 50 psi)
Cameras	PTZ170
Lights	Ahl-Light 10

*We reserve the right to alter specifications without prior notice*

### 4-FACE FUEL INSPECTION IMAGES



*We reserve the right to alter specifications without prior notice*