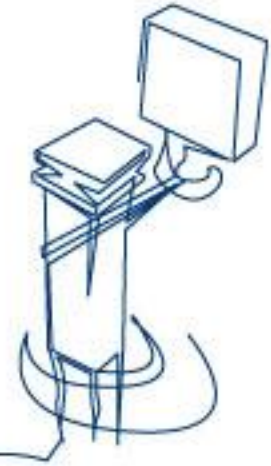




Project SOCRAT
For visual non-destructive
inspection of reactor body
WWER-1000/320

Rivne NPP, Ukraine



Background

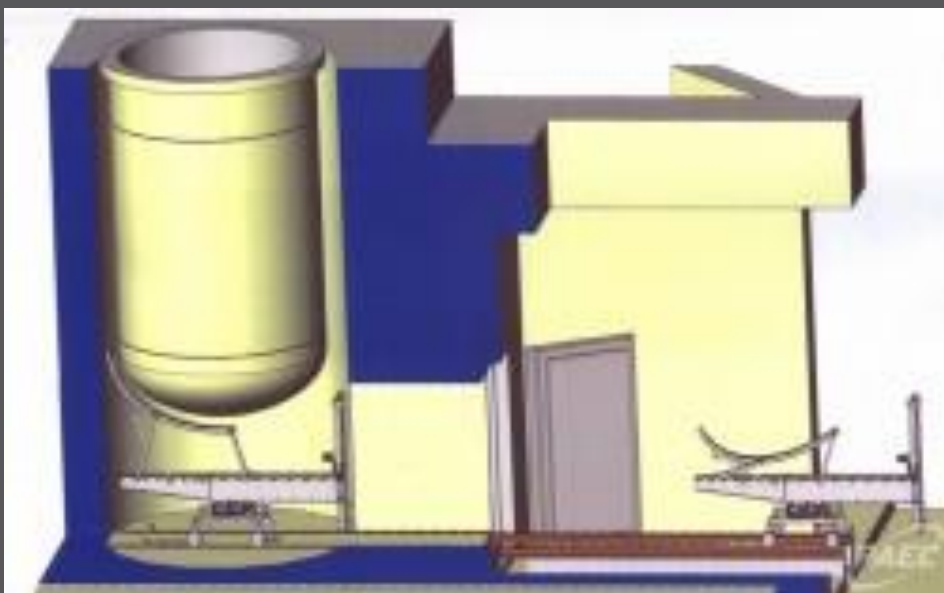
The purpose of this project is to perform non-destructive instrument inspection of the reactor body using camera system Everest Ca-Zoom® 6.2. The idea of this equipment is to reveal with a great degree of certainty damages on the reactor body like:

- cracks;
- detachments;
- burnouts;
- fistules;
- influxes;
- shrinks;
- undercuts;
- scratches;
- abnormal friction damages;
- metal spatter;
- incomplete welding penetration;
- metal accumulation;
- foreign inclusions.



Objectives

The accuracy of the system is minimum length and width discovered of 1,5 mm with an error of 20%. Co-ordinate error 20%. Initially before starting the operation the camera unit is calibrated. A laser distance measuring device can be used for precise measuring, also part of the camera system.



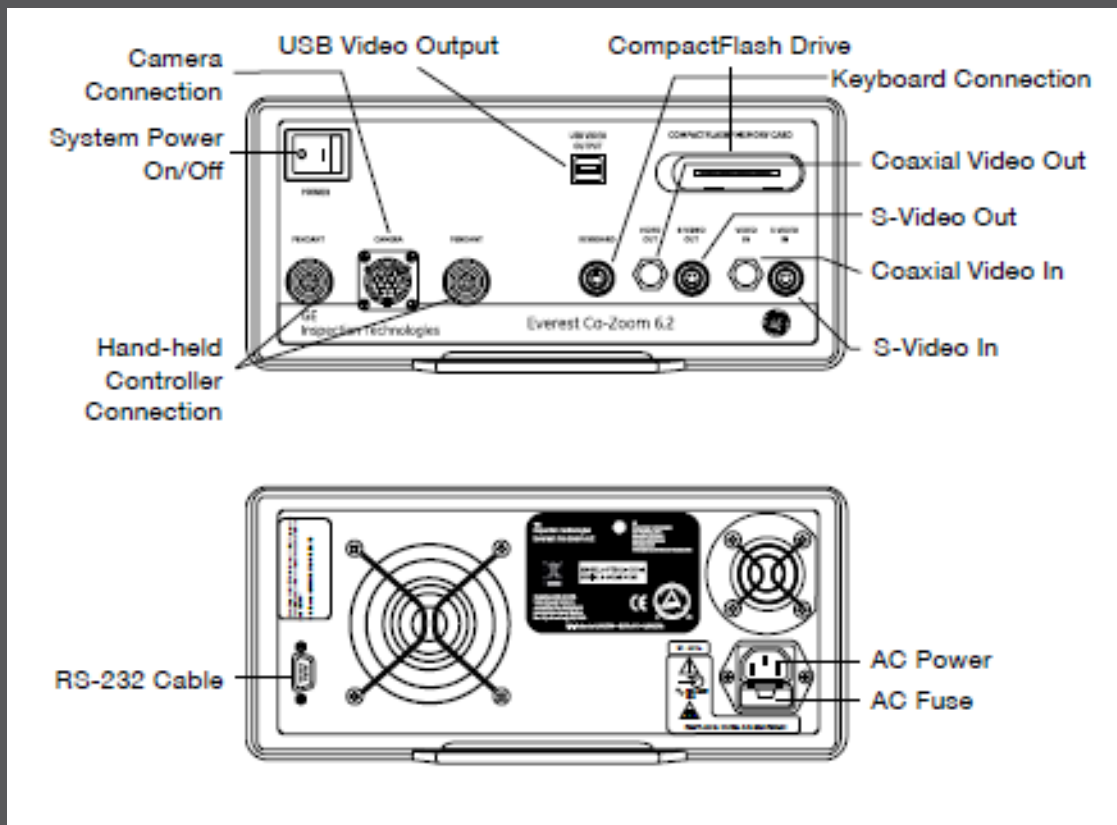
Rivne NPP, Kuznetsovsk

System Overview



Portable
operating / carrying
case with industrial wheels

Camera control unit



Camera Head Options



Hand-held Controller

