

GASR Volume Determination and Characterization

Monday 22 September 2014 16:00 (30 minutes)

The Gas Assay, Sample and Recharge (GASR) system at the Hot Fuel Examination Facility (HFEF) at Idaho National Laboratory is used to puncture fuel elements, collect gas samples for analysis, and determine the free volume in a fuel element. This process is used to sample and determine fission gas release from irradiated fuel experiments. Accurate knowledge of the GASR system component volumes is necessary for calculating fuel element volumes. Following a recent GASR system repair and new auxiliary volume fabrication, the system volume determination was performed. Results of the system volume determination and characterization of the overall system uncertainty will be presented.

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