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Perspectives on the Final Design Review process from the US ITER DRGA team¹ T.M. BIEWER, C.C. KLEPPER, W. DEVAN, V. GRAVES, C. MARCUS, Oak Ridge National Laboratory, P. ANDREW, ITER International Organization, D.W. JOHNSON, Princeton Plasma Physics Laboratory — Among the ITER procurements awarded to the US ITER Domestic Agency, and subsequently to the ORNL Fusion & Materials for Nuclear Systems Division, is the design and fabrication of the Diagnostic Residual Gas Analyzer (DRGA) system. The DRGA system reached the Final Design Review (FDR) in July 2014, and is the first US-credited diagnostic system to achieve this milestone. The design effort has focused on the vacuum and mechanical interface of the DRGA gas sampling tube with the ITER vacuum vessel and cryostat. In addition to technical issues needed to negotiate the mechanical interface, a significant number of procedural issues at US ITER and the ITER IO were encountered to navigate the DRGA project to this milestone. The process has been beneficial to both the DRGA project, and in-turn to US ITER, by illuminating the procedures in practice. This presentation will highlight some of the issues encountered and relay perspectives for designing hardware for ITER.

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