Advanced Approach of Reactor Pressure Vessel Head Inspection

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This article presents examination VVER Reactor Pressure Vessel Head (RPVH). The scope of this examination includes the following: visual examination of RPVH interior as well as inside surface of penetration tube; ultrasound examination of penetration tube from inner side and examination of J-weld area; eddy current examination of inside surface of penetration tube and examination of J-weld surface. Presentation contains details of examination techniques with focus on eddy current examination as well as details on manipulator and end effectors developed for VVER RPVH examination.

Keywords: reactor pressure vessel head, eddy current examination