

1.12.11. SPECIALIZED GAMMA-RAY FLAW DETECTOR DAR-SE75BNR WITH RADIATION SOURCE SE-75

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In the result of solution of tasks on increasing of reliability of heat-exchangers for BN-800 reactor, specialized flaw detector DAR-Se75BNR with Se-75 radiation source of 5 Ci activity was developed by specialists of OJSC “NIIFTA” and OJSC “Podolsk Machine-Building Plant”.

Gamma-ray flaw detector ensures high-performance radiographic testing by panoramic exposure of welded joints between tubes and tube plates ($\varnothing 16 \times 3$ mm) in the reactor heat-exchangers.

Apparatus meets modern requirements to radiation safety. Blocking system, alarming system and system of remote manual control are provided in apparatus. Weight of radiation head – not more than 6 kg; remote control distance – up to 5 meters.