

CONSIDERATIONS ON REHABILITATION OF IRRIGATION SPRINKLER PLOTS AND OF THE PUMPING STATIONS

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Abstract

The paper presents an analysis of the guidelines for the rehabilitation of irrigation plots to sprinkler watering. Irrigation systems from Romania were conducted in 40 to 50 years, and most are degraded at the present stage. Part of irrigation sprinkler plots is in operation, but the important phenomena of wear and aging. Their rehabilitation is carried out on the two major components, pressure pumping station and (PSP) and the network of pipelines. Rehabilitation and modernisation of the PSP is achieved differentiated on structural and functional components: constructive structure, technological hydromechanics line, protection installation from accidental pressure variation, electrical supply installation, installation of monitoring and automation parameters. Case studies drawn on several SPP from Moldova reveal the complexities of rehabilitation and modernization. This should be the successive stages and by using modern materials and technology execution.

Key words: rehabilitation, irrigation sprinkler plot, pumping station, hydromechanics installations