

## MONITORING AND DIAGNOSIS OF THE HYDRAULIC TURBINES BY BENTLY NEVADA SYSTEM

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### ABSTRACT

The paper presents the main problems of the dynamic monitoring of the hydropower units and the technical solutions used by the authors for some important axial hydropower units: IRON GATES II, FRUNZARU and TURNU. Both experimental investigations and theoretical conclusions are presented. The high quality of the electronic equipments and software produced by BENTLY NEVADA CORPORATION provided a scientific diagnosis and operation of the units.

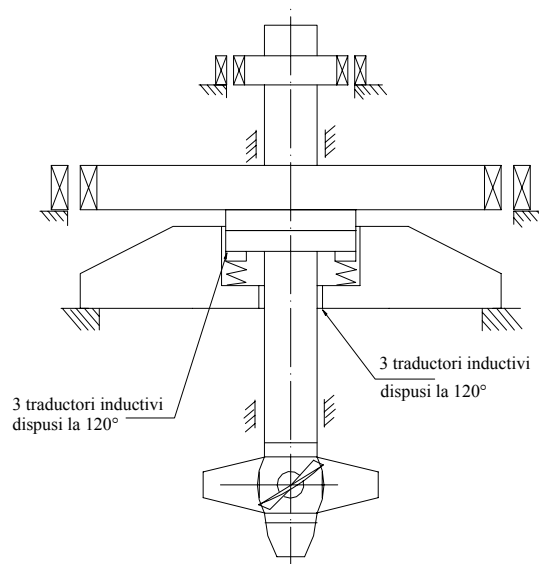


Fig.1. Displacement proximity transducers placement

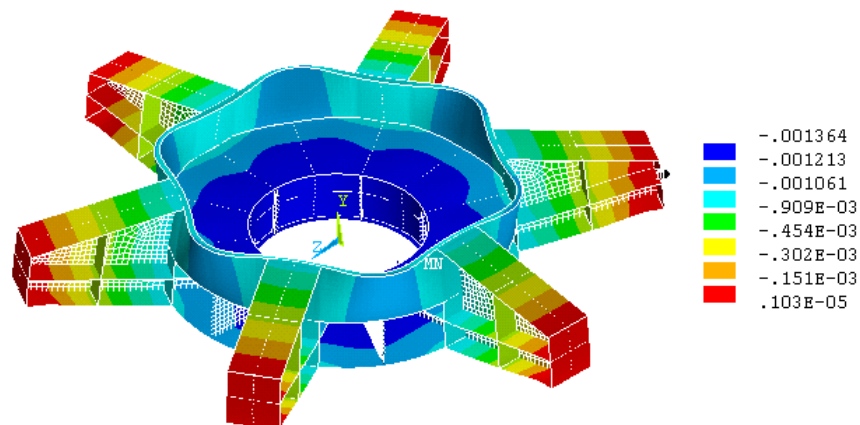


Fig.2. Hydro generator axial bearing star strain diagram (ANSYS)