FUNCTIONAL MAINTENANCE EVALUATION TARGETS FOR FLEXIBLE RUNWAY PAVEMENT

L.F Merighi
Transport Engineering, Polytechnic School of the University of São Paulo, Brazil
Civil Engineer at Guarulhos International Airport – Sao Paulo

C.Y Suzuki
Transport Engineering, Polytechnic School of the University of São Paulo, Brazil
Planservi Engenharia LTDA

ABSTRACT
This paper presents a study focused on the implementation of functional maintenance targets for flexible runway pavements. Airports besides performing its function specified by the International Civil Aviation Organization (ICAO), which in Brazil it is regulated by the Brazilian National Civil Aviation Agency (ANAC), should also preserve existing pavements in good condition and promote safety and comfort to the passenger. Although there are already criteria for defining runway pavement maintenance strategies, it should also be recommended to the airports in general to consider a maintenance matrix with functional parameters such as pathologies (Pavement Condition Index - PCI), irregularities (International Roughness Index - IRI), and transverse basins that can accumulate water in rainy days and result on accidents. This research consists on establishing an effective functional evaluation maintenance matrix for flexible runway pavement based on a case study of three regional airports in Brazil.