



“Gheorghe Asachi” Technical University of Iasi, Romania



EXTENDED PRODUCER RESPONSABILITY (EPR) IN AVIATION SECTOR: A NEW RISK ANALYSIS APPROACH

Francesco Ventura^{1*}, Giuseppe Caristi², J.R. James¹, Daniela Barba³

¹*CROWN Group Inc. 4730 S. FORT APACHE RD SUITE 300, Las Vegas, NV, 89147 USA*

²*Department of Economics-University of Messina, Via dei Verdi Messina 98122 Italy*

³*QBM S.r.l., Via Faraldo 2/3 Mercato San Severino 84085 Italy*

Abstract

The introduction of Extended Producer Responsibility (EPR) into European legislation will have a significant impact on EU industry. Obviously, in order to make the management of an EPR-based process efficient, it is necessary to define strategic approaches that help companies to be compliant with the European Legislation. Therefore, the objective of this study is to understand whether it is possible to propose a risk analysis model that can help company management to develop an efficient ERP process. A possible solution to the research question is to propose a new risk analysis approach in which two widely used methods in the field of risk analysis are combined: the Functional Resonance Analysis Method (FRAM) model of Prof. Hollnagel combined with the Analytic Hierarchy Process (AHP) method proposed by Saaty. The new approach has been applied to the aviation sector, which will be affected by Extended Producer Responsibility in the short term, due to the increase in the number of aircraft at the end of their life cycle and to the evolution of regulations in the aeronautical sector.

Key words: aircraft, end of life, extended producer responsibility, recovery, risk analysis

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* Author to whom all correspondence should be addressed: f.ventura@crowing.com; Phone: +39 32905330016