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Summary of the doctoral dissertation

entitled *Legal regulation of the share of self-propelled mining machines in the operation of the underground mining plant*

This doctoral dissertation is the result of research conducted at the Faculty of Law, Administration and Economics of the University of Wrocław and in underground mines. These studies were initiated as part of the second edition of the "Implementation Doctorate" program, the beneficiaries of which are the University of Wrocław and KGHM Polska Miedź S.A. The tests were carried out by a doctoral student with a master's degree in engineering and qualifications of a higher traffic supervisor.

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The doctoral dissertation is a monographic study. The structure of the work consists of five chapters, introduction and conclusion. Each chapter begins with a short introduction and ends with a summary.

In the first chapter, in order to introduce the reader to the sphere of legal regulation of mining activities, it was necessary to present the sources of law and explain some legal concepts in the field of mining, such as: mining entrepreneur, mining plant, underground mining plant, external entities in the underground mining plant and relations between these legal entities. Explanation of these terms was indicated for reference to the following chapters.

With reference to the title of the work, the second chapter explains the concept of mining plant operation, the rules of its operation and the applicable documentation. The multiplicity of threats occurring in the operation of the underground mining plant and their difference in relation to other areas of economic life obliged to present them and show their impact on the

Oliver Rogosh

course of underground work. Part of the chapter presents the situation of employees of the underground mining plant, the qualification requirements for them as well as the necessary training, equipment and duties. In the final part, the products, objects, machines and devices used in the operation of the underground mining plant are characterized, together with the indication of the necessary permits and permits for their operation resulting from the law.

The third chapter presents self-propelled mining machines and their legal requirements. The complicated process of lowering these machines into the ground, their implementation, operation and finally liquidation is discussed. Legal regulations concerning self-propelled mining machines and the organization of their movement in underground mines were reviewed. This chapter presents the essential, de lege lata, critical remarks concerning the provisions of the regulations in question.

For a complete picture of the issue of self-propelled mining machines, the fourth chapter characterizes the infrastructure accompanying self-propelled mining machines in an underground mining plant. Legal and location requirements for facilities intended for operating and powering self-propelled mining machines and for storing spare parts are discussed.

The fifth chapter is devoted to the control and supervision over the operation of the underground mining plant in the field of operation of self-propelled mining machines. The chapter discusses internal and external control and supervision institutions as well as institutions supporting supervision over the operation of an underground mining plant. A large range of institutions controlling and supervising this movement was presented. This made it possible to formulate a proposal for proper regulation of supervision over the movement of self-propelled mining machines.

In the individual chapters of the dissertation, problems related to the correct application of the law by the mining entrepreneur and employees of the underground mining plant have been identified. The analysis and evaluation of the applicable legal regulations made it possible to achieve the main objective of this work and to propose solutions to amend legal regulations in various areas of geological and mining law.