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DEMOLITION MANAGEMENT CASE STUDY – CYANIDE UNIT IN FIBREXNYLON SAVINESTI

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Abstract

After 1990, the industry (mainly the chemical branch) is faced to complex transformation phenomena, visible mostly on the large industrial platforms. The technologies since 1970-1980 period are given up and it takes place the demolition/dismantling of the respective production facilities, followed or not by the reconversion of the sites made free of the obsolete equipments.

The chemical installations dismantling activities – besides their extension and complexity, accentuated by the historical pollution too – are generators of waste, in large quantities, various types and, most of it, toxic and hazardous. Therefore, it was necessary, especially after 2000, to establish national and local strategies and rules, in order to develop appropriately these activities, with a minimum possible impact on the environmental components' quality. This paper presents some of the experience regarding waste management during the demolition and dismantling works, achieved by the Working Groups in the Local Environmental Authorities in Neamt County. It presents also the results of about two years of investigation, for a typical case: HCN and NaCN plants belonging to Fibrexnylon SA Savinesti, on Chemical Platform Savinesti, Neamt County. The European and Romanian legislative framework, regarding the specific regulation procedures and the waste management are briefly mentioned too.

The managerial planning of the dismantling/demolition activities and the practical approach of the waste forecasting represent important components of the whole demolition management strategy. The Specific Operation Procedures (SOPs) are highlighted, as importance and applicability. Practical examples and information in relation with the studied case are given. The programme was coordinated by Danish Company of Engineering and Consultancy RAMBØLL A/S and benefited by the direct participation of Fibrexnylon specialists.

Keywords: industrial equipment dismantling; waste management; Specific Operation Procedures; legislative framework

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