

Article

Dust and Noise Environmental Impact Assessment and Control in Serbian Mining Practice

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Abstract: This paper presents an approach to dust and noise environmental impact assessment and control in Serbian mine planning theory and practice. Mine planning defines the model of mining operations, production and processing rates, and ore excavation and dumping scheduling, including spatial positioning for all these activities. The planning process then needs to assess the impact of these mining activities on environmental quality. This task can be successfully completed with contemporary models for assessment of suspended particles dispersion and noise propagation. In addition to that, this approach enables verification of the efficiency of suggested protection measures for reduction or elimination of identified impact. A case study of dust and noise management at the Bor copper mine is presented, including the analysis of the efficiency of planned protection measures from dust and noise, within long-term mine planning at the Veliki Krivelj and Cerovo open pits of the Bor copper mine.

Keywords: dust and noise impact assessment and control; air dispersion modeling; AERMOD; noise mapping; SoundPLAN; mine planning

1. Introduction

Adapting the environment to the needs of the social community has consequences that are often unexpected, due to delicate equilibrium of all ecological components. Technogenic impact within the ecosystem can generate a feedback loop to the initiators, causing new conditions and unfavorable effects to the environment and humans. Surface mining and mineral processing, with their salient feature, can pose a threat to the environmental quality. Therefore, activities such as exploration, planning, surface extraction, crushing, milling, flotation, and waste dumping, might cause significant problems for environment protection [1].

The most important parameters for air quality within the area of active surface mines are total suspended particles (TSP) and particles with an aerodynamic diameter smaller than $10\ \mu\text{m}$ (PM₁₀) [2–4]. Dispersion of (airborn) dust is related to all unit operations of surface mining systems [3–6]. It has been established that air dispersion of TSP and PM₁₀ relates to meteorological conditions, besides the technological ones [7–10]. The highest dust concentrations were measured within the area of surface mines, gradually decreasing with distance [9].

Holmes and Morawska [11] analyzed various available dust particles dispersion models, including the Box model, Gaussian plume model, Lagrange-Euler model, and CFD (Computational Fluid Dynamics) model. They concluded that the major shortcoming of particles dispersion modeling was the lack of validation studies, comparing estimated and actual values. Chaulya et al. [12] compared FDM (Fugitive Dust Model) and PAL2 model (Point, Area, and Line sources model) with experimental data during the winter season in the region of a coal mine in India. The results were a correlation coefficient of 0.66 for PAL2 model and 0.75 for FDM. Jaiprakash et al. [13] used AERMOD model and compared

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Draft Supplemental Environmental Assessment/environmental Impact Report ,2010 **Final Environmental Impact Statement and Environmental Impact Report for Continued Operation of Lawrence Livermore National Laboratory and Sandia National Laboratories, Livermore: Text** ,1992 **San Francisco International Airport Master Plan, Final Environmental Impact Report** ,1992 **Environmental Impact Assessment** Anji Reddy Mareddy,Anil Shah,Naresh Davergave,2017-06-14 Environmental Impact Assessment Theory and Practice describes the various pieces of knowledge necessary to speak the language of EIA and carry out EIAs focusing on a variety of environmental issues including impacts on environmental components like air water soils land noise and biological environments Organized into 15 chapters the book provides engineers with the tools and methods to conduct an effective assessment including report preparations design measures and relevant mitigation steps that can be taken to reduce or avoid negative effects Case Studies are presented providing guidance professionals can use to better understand plan and prepare environmental impact assessments Presents detailed methodologies for air pollution control waste treatment schemes phytoremediation bioremediation hazardous waste green belt development and rainwater harvesting Highlights concepts and important definitions of EIA and the planning and management of EIA study Discusses the impacts on valued environmental components like air water soils land noise and biological and socioeconomic environments in a systematic manner Draft Environmental Impact Statement/environmental Impact Report (DEIS/DEIR) for the Disposal and Reuse of the Former Naval Shipyard Hunters Point ,1997 Environmental Impact Assessment for Environmental Health Mr. Rohit Manglik,2023-05-23 Environmental impact assessment methods Includes project evaluation health risks and mitigation preparing students for sustainable environmental health planning *Environmental Impact Assessment* R R Barthwal,2002 Metals And Metalloids Are Ubiquitous Environmental Constituent And Cannot Be Broken Down To Non Toxic Forms By The Biological System Once The Ecosystem Is Contaminated With Them They Remain As A Potential Hazard To Human Health For Many Years Heavy

Metals Are Particularly Important In This Respect This Book Which Is A Part Of Man And Environment Series Discusses Diverse Issues Relating To Heavy Metals And Environmental And Human Health Problems **Milwaukee East-west Corridor Transportation Study, Major Investment Study/draft Environmental Impact Statement, Milwaukee, Wisconsin** ,1995 **Methods of Environmental Impact Assessment** , Draft Environmental Impact Statement and Environmental Impact Report Southern California Rapid Transit District,1983 *Furthering Environmental Impact Assessment* Anastassios Perdicoulis,Bridget Durning,Lisa Palframan,2012-01-01 The environmental impact of development projects is currently studied and mitigated from two distinct perspectives before and after project implementation with environmental impact assessment EIA and environmental management systems EMS being the main instruments on the respective sides This double perspective creates a discontinuity in the way environmental impacts are analysed an issue that has been noted by both academics and practitioners This book gathers and presents both theoretical and actual examples to link EIA with EMS and explores ways to overcome difficulties and provide innovative solutions Academic researchers advanced students EIA practitioners and EMS practitioners will find the book essential for the theoretical explorations of how the link might occur and practical examples in which to explore and critique these theories *Environmental Impact Assessment in the United States* Robert M. Sanford,Donald G. Holtgrieve,2022-12-30 Environmental impact assessment is now firmly established as an important and often mandatory part of proposing any development project Environmental Impact Assessment in the United States provides foundational knowledge of environmental review in the United States as carried out at federal state and local levels with detailed information about the National Environmental Policy Act NEPA and its applications and other relevant federal and state legislation This book will aid planners architects engineers project managers or consultants who work with environmental impact statements to assess the effects of a proposed activity on the environment and who develop and assess measures to avoid or minimize those impacts It will serve as a desk reference for professional environmental planners as well as a core textbook for students who intend to work in the fields of environmental policy civil engineering environmental law resources management or other areas of environmental management

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