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Title: Control technology for the avoidance of the simultaneous occurrence of a methane explosion and spontaneous coal combustion in a coal mine: a case study

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PII: S0957-5820(16)30144-6
DOI: <http://dx.doi.org/doi:10.1016/j.psep.2016.07.005>
Reference: PSEP 832

To appear in: *Process Safety and Environment Protection*

Received date: 17-6-2015
Revised date: 4-7-2016
Accepted date: 9-7-2016

Please cite this article as: Qin, B., Li, L., Ma, D., Lu, Y., Zhong, X., Jia, Y., Control technology for the avoidance of the simultaneous occurrence of a methane explosion and spontaneous coal combustion in a coal mine: a case study, *Process Safety and Environment Protection* (2016), <http://dx.doi.org/10.1016/j.psep.2016.07.005>

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Highlights

- (1) A physical geometrical and mathematical model of was established according to the O Type Ring Theory
- (2) The gas drainage amount and air leakage field under four sub pressures were simulated
- (3) The PCGC was proposed and the superposition area was caculated
- (4) The appropriate parameters were implemented and verified

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