

Minutes of the meeting of Polish partners in DISIRE project 08/04/2016, Lubin/ Poland

Participants:

DISIRE partners: KGHM, WUT, Cuprum

Purpose of the meeting:

The aim of the meeting was to discuss and summarize completed tasks within the project and to verify the possibility of conducting in-situ tests of sensors in Lubin Mine.

Course of the meeting:

1. R. Pilut: welcoming the participants and presentation of the agenda.
2. R. Zimroz: short presentation of the meeting with George Nikolakopoulos, Project Coordinator and summary of current status of the tasks given to Polish partners.
3. R. Król: it is necessary to increase the activity of Polish partners within the project. What is more, it is important to verify the conference schedule where the DISIRE project could be presented. Finally, the input for the presentations and publications is needed (request from R. Pilut to give in advance the notification of needed data from KGHM).

Periodic Report- obligatory report submitted by each partner after the 18th month of project duration (both reports are included: financial and technical). Regarding the technical report the following assumptions were determined: the conspectus shall be prepared by Cuprum and WUT with the characterization of the information needed from KGHM. Then, KGHM will provide required information. All three partners will cooperate in report preparation.

The 3rd DISIRE Consortium Meeting (18-19 of May): participants from each organization were selected to represent Polish partners during the meeting.

Testing sensors in mine conditions.

Up to now the KGHM has permission to perform tasks included into in-situ sensors testing in both mine conditions and in Ore Processing Plant. The project team discussed and prepared a location of readers (antennas) and dropping points scheme. This includes 3 dropping points in different faces of Lubin Mine and 8 readers (6 across mine and 2 in Ore Processing Plant). After analyzing propositions given by ABB and KGHM it was decided that on the purpose of upcoming test one reader will be installed. It will help to save time and money. Regarding location of dropping points: there should be one drop-point which can be relocated during different stages of experiment.

R. Król/ A. Rożek- proposed to conduct the experiment in second part of the year.

To prepare test it is important to take into consideration aspects as follows:

1. Installation of the gates should be done by KGHM (so that the complete instructions should be

provided by partners).

2. Autonomy of the gates (are the gates operating by using own driver/ each gate has own driver).
3. Difficulties regarding work done by specialists not employed by KGHM (who also haven't got underground permissions. In some particular cases the permission can be given by CEO of KGHM).
4. The cost of purchasing gates.
5. The quantity, type and cost of sensors.
6. Throughput of pellets (the quantity/ time).
7. Marking of pellets (each pellet individually/ group of pellets)
8. The shape of reader and its installation on belt conveyor (possibility of damage the reader by bigger parts of ore).

Proposed solutions:

1. To minimize both costs and consumption of time the proposition is to install one reader. The results may vary by relocating the drop-point.
2. Installation of reader in belt conveyor in Ore Processing Plant (between skip and screen).

It is important to receive more detailed information from technology suppliers. So that, it is proposed to organize teleconference or the meeting with partners in Poland.

Wroclaw University of Technology: will prepare the simulation of the flow of ore regarding presentation of test results.

Conclusions:

KGHM:

- **Provide permission for conducting tests**
- **Verify the possibility of installing gates on belt conveyor in Ore Processing Plants**
- **Prepare photos presenting proposed location of readers installation.**