
IREDES SHOTCRETE Equipment Profile

Cross Supplier standardized information for shotcrete application machinery

Motivation

Machines for the application of shotcrete are more and more equipped with electronic control systems and a clear trend is visible to automate these machines up to shotcrete robots. Information available from other machines and from tunnel scanners also provides a basis for automation and finally for an autonomous operation.

In order to enable mining companies to minimize cost for interface development, IREDES standardizes the information so machines of different manufacture can be easily integrated into a mine's IT environment without specific development effort.

Purpose

The purpose of the IREDES SHOTCRETE Equipment Profile is to provide operational information required for work organization, enhanced accuracy of work, dispatch and maintenance. The general purpose of a standardized information exchange between the machines and central IT systems is to keep cost for interface development and for electronic reporting at bay while at the same time enabling the broad use of computerized machinery in order to enhance efficiency and accuracy of operations.

The SHOTCRETE Equipment Profile defines standardized information for:

- Plans for the application of shotcrete
- Plans for the mixtures to be used
- Reports on the machine productivity ("Production Performance Report")
- Reports on the Quality and accuracy of work in relation to the Plans ("Production Quality Report")

It is important that the IREDES SHOTCRETE profile precisely as any other IREDES equipment profile does not specify systems the machine producer has to use. It specifies the electronic interface between systems so the producer is completely free in choosing it's on board systems.

Scope

The IREDES SHOTCRETE Profile defines the content (structure and meaning) of the above mentioned profiles as XML schemas to be used for offline exchange using memory media as well as using WebServices for online transport.

Status

The IREDES SHOTCRETE Profile is released.

Questions? Want to participate in creating the standard? Not an IREDES member yet? Get involved:
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