

# Belt Conveyors Fire Protection



## Best Practice Series BP-92

monitoring.

- **ALWAYS** replace worn or damaged idlers on a conveyor line as soon as possible.
- **ALWAYS** check slippage and sequence switches.
- **ALWAYS** perform required tests on conveyor belt monitoring and fire suppression systems.
- **ALWAYS** investigate the smell of burning rubber coming from a conveyor line.
- **ALWAYS** remove accumulations of float dust from conveyor lines and make certain of adequate rock dusting.
- **ALWAYS** promptly clean up any coal spills.
- **ALWAYS** plainly mark locations of fire taps along conveyor lines.
- **ALWAYS** make certain that threads on fire taps along conveyor lines are covered and clean.
- **ALWAYS** make certain that fire hose provided along conveyor lines is properly stored in containers.
- **NEVER** take fire hose from conveyor lines to use for purposes other than fire fighting.

# It Happened . . .

- A fire occurred along a belt entry. A wedge-shaped rock lodged between the belt and take-up roller caused the belt to slip. The friction caused a fire at the head pulley and the second drive roller. The fire was extinguished using two extinguishers and water.
- Smoke was detected near a unit belt drive. Mandoors were opened to divert the smoke. The belt slippage switch was not operating properly.
- Smoke was detected in a conveyor belt entry. Elevated concentrations of carbon monoxide were not detected by the sensors 100 feet inby. Smoke and flames were observed near the drive pulley. The fire was extinguished with water.



**Example of a typical belt conveyor**

*Arrive Home Alive*

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