such belt. The Secretary shall pre-
scribe a schedule for installing fire sup-
pression devices on belt haulageways.

§ 75.1103–1 Automatic fire sensors.

A fire sensor system shall be in-
stalled on each underground belt con-
veyor. Sensors so installed shall be of a
type which will (a) give warning auto-
matically when a fire occurs on or near
such belt; (b) provide both audible and
visual signals that permit rapid loca-
tion of the fire.

§ 75.1103–2 Automatic fire sensors; ap-
proved components; installation re-
quirements.

(a) The components of each auto-
matic fire sensor required to be in-
stalled in accordance with the provi-
sions of §75.1103–1 shall be of a type and
installed in a manner approved by the
Secretary, or the components shall be
of a type listed, approved and installed
in accordance with the recommenda-
tions of a nationally recognized testing
laboratory approved by the Secretary.

(b) Where applicable, and not incon-
sistent with these regulations, auto-
matic fire sensors shall be installed in
accordance with the recommenda-
tions set forth in National Fire Code No. 72A
“Local Protective Signaling Systems”
(NFPA No. 72A–1967). National Fire
Code No. 72A (1967) is hereby incor-
porated by reference and made a part
hereof. National Fire Code No. 72A is
available for examination at each
MSHA Coal Mine Safety and Health
district office, and may be obtained
from the National Fire Protection As-
sociation, 11 Tracy Drive, Avon, MA
02322; Telephone: 800–344–3555 (toll free);

§ 75.1103–3 Automatic fire sensor and
warning device systems; minimum
requirements; general.

Automatic fire sensor and warning
device systems installed in belt
haulageways of underground coal
mines shall be assembled from compo-
nents which meet the minimum re-
quirements set forth in §§75.1103–4
through 75.1103–7 unless otherwise ap-
proved by the Secretary.

(a) Effective December 31, 2009, auto-
matic fire sensor and warning device
systems that use carbon monoxide sen-
sors shall provide identification of fire
along all belt conveyors.

(i) Carbon monoxide sensors shall be
installed at the following locations:

(1) Not more than 100 feet downwind
of each belt drive unit, each tailpiece
transfer point, and each belt take-up. If
the belt drive, tailpiece, and/or take-up
for a single transfer point are installed
together in the same air course, and
the distance between the units is less
than 100 feet, they may be monitored
with one sensor downwind of the last
component. If the distance between the
units exceeds 100 feet, additional sen-
sors are required downwind of each belt
drive unit, each tailpiece transfer
point, and each belt take-up;

(ii) Not more than 100 feet downwind
of each section loading point;

(iii) Along the belt entry so that the
spacing between sensors does not ex-
ceed 350 feet; and

(iv) The mine operator shall indicate
the locations of all carbon monoxide
sensors on the mine maps required by
§§75.1200 and 75.1505 of this part.

(2) Where used, sensors responding to
radiation, smoke, gases, or other indi-
cations of fire, shall be spaced at reg-
ular intervals to provide protection
equivalent to carbon monoxide sensors,
and installed within the time specified
in paragraph (a)(3) of this section.

(3) When the distance from the tail-
piece at loading points to the first
outby sensor reaches the spacing re-
quirements in §75.1103–4(a)(1)(iii), an
additional sensor shall be installed and
put in operation within 24 production
shift hours. When sensors of the kind
described in paragraph (a)(2) of this
section are used, they shall be installed
and put in operation within 24 produc-
tion shift hours after the equivalent
distance which has been established for
the sensor from the tailpiece at loading
points to the first outby sensor is first
reached.

(b) Automatic fire sensor and warn-
ing device systems shall be installed so