§ 75.832 Frequency of examinations; recordkeeping.

(a) Continuous mining machine examination. At least once every 7 days, a qualified person must examine each high-voltage continuous mining machine to verify that electrical protection, equipment grounding, permis-
sibility, cable insulation, and control de-
vice are properly installed and main-
tained.

(b) Ground-fault test circuit. At least once every 7 days, and prior to
tramming the high-voltage continuous
mining machine, a qualified person
must activate the ground-fault test cir-
cuit to verify that it will cause the cor-
responding circuit-interrupting device
to open.

(c) Ground-wire monitor test. At least once every 7 days, and prior to
tramming the high-voltage continuous
mining machine, a qualified person
must examine and test each high-volt-
age continuous mining machine
ground-wire monitor circuit to verify
that it will cause the corresponding
circuit-interrupting device to open.

(d) Trailing cable inspections.

(1) Once each day during the shift
that the continuous mining machine is
first energized, a qualified person must
de-energize and inspect the entire
length of the high-voltage trailing
cable from the power center to the con-
tinuous mining machine. The inspec-
tion must include examination of the
outer jacket repairs and splices for
damage, and assure guarding is pro-
vided where required.

(2) At the beginning of each shift
that the continuous mining machine is
energized, a person designated by the
mine operator must de-energize and
visually inspect the high-voltage trail-
ing cable for damage to the outer jack-
et. This inspection must be conducted
from the continuous mining machine
to the following locations:

(i) The last open crosscut;

(ii) Within 150 feet of the working
place during retreat or second mining;
or

(iii) Up to 150 feet from the con-
tinuous mining machine when the ma-
chine is used in outby areas.

(e) Grounded-phase detection test. When a grounded-phase test circuit is
provided on a high-voltage continuous
mining machine, a person designated
by the mine operator must activate the
test circuit at the beginning of each
production shift to assure that the de-
tection circuit is functioning properly.

(f) Corrective action. When examina-
tions or tests of equipment reveal a
risk of fire, electrical shock, ignition,
or operational hazard, the equipment
must be immediately removed from
service or repaired.

(g) Record of tests.

(1) At the completion of examina-
tions and tests required under para-
graphs (a), (b), and (c) of this section,
the person conducting the examina-
tions and tests must:

(i) Certify by signature and date that
the examinations and tests have been
conducted.

(ii) Make a record of any unsafe con-
dition found.

(2) Any corrective action(s) must be
recorded by the person taking the cor-
rective action.

(3) The record must be countersigned
by the mine foreman or equivalent
mine official by the end of the mine
foreman’s or the equivalent mine offi-
cial’s next regularly scheduled working
shift.

(4) Records must be maintained in a
secure book that is not susceptible to
alteration or electronically in a com-
puter system so as to be secure and not
susceptible to alteration.

(5) Certifications and records must be
kept for at least 1 year and must be
made available for inspection by au-
thorized representatives of the Sec-
retary and representatives of miners.

[75 FR 17549, Apr. 6, 2010]

§ 75.833 Handling high-voltage trailing
cables.

(a) Cable handling.

(1) Miners must not handle energized
trailing cables unless they are wearing
high-voltage insulating gloves, which
include the rubber gloves and leather
outer protector gloves, or are using in-
sulated cable handling tools that meet
the requirements of paragraph (c) or (d) of this section.

(2) Miners must not handle energized high-voltage cables with any parts of their bodies except by hand in accordance with paragraph (1) above.

(b) Availability. Each mine operator must make high-voltage insulating gloves or insulated cable handling tools available to miners handling energized high-voltage trailing cables.

(c) High-voltage insulating gloves. High-voltage insulating gloves must meet the following requirements:

(1) The rubber gloves must be designed and maintained to have a voltage rating of at least Class 1 (7,500 volts) and tested every 30 days in accordance with publication ASTM F496-02a, "Standard Specification for In-Service Care of Insulating Gloves and Sleeves" (2002). The Director of the Federal Register approved this incorporation by reference in accordance with 5 U.S.C. 522(a) and 1 CFR part 51. ASTM F496–02a may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428–2959, call 610–832–9500 or go to http://astm.org. ASTM F496–02a is available for inspection at any MSHA Coal Mine Safety and Health District office, at the MSHA Office of Standards, Regulations, and Variances, 1100 Wilson Boulevard, Room 2350, Arlington, VA 22209–3939, 202–693–9440, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(2) The rubber glove portion must be air-tested at the beginning of each shift to assure its effectiveness.

(3) Both the leather protector and rubber insulating gloves must be visually examined before each use for signs of damage or defects.

(4) Damaged rubber gloves must be removed from the underground area of the mine or destroyed. Leather protectors must be maintained in good condition or replaced.

(d) Insulated cable handling tools. Insulated cable handling tools must be:

(1) Rated and properly maintained to withstand at least 7,500 volts;

(2) Designed and manufactured for cable handling;

(3) Visually examined before each use for signs of damage or defects; and

(4) Removed from the underground area of the mine or destroyed if damaged or defective.

[75 FR 17549, Apr. 6, 2010]

§ 75.834 Training.

In addition to existing part 48 task training, hazard training, training for qualified persons under existing §75.153, and annual refresher training, the following specialized training shall be provided and specified in the part 48 plan:

(a) Training for miners who perform maintenance on high-voltage continuous mining machines in high-voltage safety, testing, and repair and maintenance procedures.

(b) Training for personnel who work in the vicinity of high-voltage continuous mining machines in safety procedures and precautions for moving the high-voltage machines or the trailing cables.

[75 FR 17549, Apr. 6, 2010]