same manner. If the second fixture also
turns, corrective action shall be taken.

(h) When other tensioned and nonten-
sioned fixtures are used, test methods
shall be established and used to verify
their effectiveness.

(i) The mine operator shall certify
that tests were conducted and make
the certification available to an au-
thorized representative of the Sec-
retary.

[51 FR 36198, Oct. 8, 1986, as amended at 51 FR
36804, Oct. 16, 1986; 63 FR 20030, Apr. 22, 1998]

SCALING AND SUPPORT—UNDERGROUND
ONLY

§ 57.3360 Ground support use.

Ground support shall be used where
ground conditions, or mining experi-
ence in similar ground conditions in
the mine, indicate that it is necessary.
When ground support is necessary, the
support system shall be designed, in-
stalled, and maintained to control the
ground in places where persons work or
travel in performing their assigned
tasks. Damaged, loosened, or dislodged
timber use for ground support which
creates a hazard to persons shall be re-
paired or replaced prior to any work or
travel in the affected area.

PRECAUTIONS—SURFACE AND
UNDERGROUND

§ 57.3400 Secondary breakage.

Prior to secondary breakage oper-
ations, the material to be broken,
other than hanging material, shall be
positioned or blocked to prevent move-
ment which would endanger persons in
the work area. Secondary breakage
shall be performed from a location
which would not expose persons to dan-
ger.

§ 57.3401 Examination of ground con-
ditions.

Persons experienced in examining
and testing for loose ground shall be
designated by the mine operator. App-
propriate supervisors or other des-
ignated persons shall examine and,
where applicable, test ground condi-
tions in areas where work is to be per-
formed, prior to work commencing,
after blasting, and as ground condi-
tions warrant during the work shift.

Underground haulageways and
tavelways and surface area highwalls
and banks adjoining travelways shall
be examined weekly or more often if
changing ground conditions warrant.

PRECAUTIONS—SURFACE ONLY

§ 57.3430 Activity between machinery
or equipment and the highwall or
bank.

Persons shall not work or travel be-
tween machinery or equipment and the
highwall or bank where the machinery
or equipment may hinder escape from
falls or slides of the highwall or bank.
Travel is permitted when necessary for
persons to dismount.

PRECAUTIONS—UNDERGROUND ONLY

§ 57.3460 Maintenance between ma-
chinery or equipment and ribs.

Persons shall not perform mainte-
nance work between machinery or
equipment and ribs unless the area has
been tested and, when necessary, se-
cured.

§ 57.3461 Rock bursts.

(a) Operators of mines which have ex-
perienced a rock burst shall—
(1) Within twenty four hours report
to the nearest MSHA office each rock
burst which:
(i) Causes persons to be withdrawn;
(ii) Impairs ventilation;
(iii) Impedes passage; or
(iv) Disrupts mining activity for
more than one hour.
(2) Develop and implement a rock
burst control plan within 90 days after
a rock burst has been experienced.
(b) The plan shall include—
(1) Mining and operating procedures
designed to reduce the occurrence of
rock bursts;
(2) Monitoring procedures where de-
tection methods are used; and
(3) Other measures to minimize expo-
sure of persons to areas which are
prone to rock bursts.
(c) The plan shall be updated as con-
ditions warrant.
(d) The plan shall be available to an
authorized representative of the Sec-
retary and to miners or their rep-
resentatives.