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Parts 1 to 399
Revised as of October 1, 2002

Public Health

Containing a codification of documents of general applicability and future effect

As of October 1, 2002

With Ancillaries

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may obligate and expend monies from may obligate and expendent the patient fund. The names of officials so designated shall be provided to the relevant fiscal control office. (c) Subject to availability of sufficient the patient factors

cient funds, monies in the patient fund may be expended for materials, serv ices or activities which contribute to the well-being or morale of patients.

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17.80 Ave of reading and entertainment mate 37.80 Ave rials, recreation activities, and, in appropriate cases, necessary financial support (including travel expenses 37.2 meals, and lodging) of relatives, guard. 37.201 ians, or friends of patients to enable 37.202

such persons to be available for the partient's comfort and support.

(d) Officers in charge may issue such additional instructions, not incompassible that with this subpart, as may be sourced. sistent with this subpart, as may by necessary to implement its provisions

§35.63 Report of and accounting for contributions.

general benefit of all patients within

the hospital or station (or a ward or

unit thereof) without further specifica-

tion or conditions as to use. Contribu-

tions tendered subject to conditions by

the donor, such as expenditure or use

only on behalf of certain patients or for

specific purposes, may not be accepted. (b) Contribution of money or prop-

erty shall be accepted in writing.

(a) Contributions of money accepted pursuant to §35.62 (hereinafter referred to as "patient fund") will be treated consistently with Federal deposit rules and as supplemented with appropriate procedures of the facility. This regulation is not intended to exclude contributions for the benefit of patients from proper accountability and control of funds and property.

(b) Contributions of property accepted pursuant to §35.62 shall be recorded and accounted for in the same manner as other property of a similar kind maintained in the hospital or station. but with suitable identification so that it can be distinguished from government-owned property.

§ 35.64 Donors.

Authorized contributions may be accepted from patients, employees and other individuals, and agencies and organizations.

§ 35.65 Acceptable personal property.

Contributions of personal property which may be accepted pursuant to §35.62 include, but are not limited to, recreational equipment, furniture, radios and television sets. After its useful life, any cash proceeds realized upon disposition of such property shall be deposited to the credit of the patient fund and shall be available for expenditure pursuant to §35.66(c).

§35.66 Expenditure of cash contributions.

(a) Officials authorized to accept contributions shall not maintain control over the actual obligation or expenditure of such monies.

(b) Only those officers or employees specifically designated in writing by the officer in charge for such purpose

37—SPECIFICATIONS PART MEDICAL EXAMINATIONS OF. UNDERGROUND COAL MINERS

Subpart—Chest Roentgenographic Examinations

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37.204 Procedure for obtaining Authority: Sec. 203, 83 Stat. 763; 30 U.S.C. 643, unless otherwise noted.

Source: 43 FR 33715, Aug. 1, 1978, unless otherwise noted.

Subpart—Chest. Roentgenographic Examinations

37.1 Scope.

The provisions of this subpart set forth the specifications for giving, in-terpreting, classifying, and submitting Chest roentgenograms required by sec-tion 203 of the act to be given to underground coal miners and new miners.

37.2 Definitions.

Any term defined in the Federal Mine Safety and Health Act of 1977 and not defined below shall have the meaning given it in the act. As used in this sub-

Part:
(a) Act means the Federal Mine Safey and Health Act of 1977 (30 U.S.C. 801, 65 seq.).

(b) ALOSH means the Appalachian

Laboratory for Occupational Safety and Health, Box 4258, Morgantown, WV 26505. Although the Division of Respiratory Disease Studies, National Institute for Occupational Safety and Realth, has programmatic responsibility for the chest roentgenographic ramination program, the Institute's acility in Morgantown—ALOSH—is and throughout this subpart in referring to the administration of the pro-

(c) Chest roentgenogram means a sinposteroanterior roentgenographic ection or radiograph of the chest at full inspiration recorded on roentgenographic film.

(d) Convenient time and place with respect to the conduct of any examination under this subpart means that the examination must be given at a reasonable hour in the locality in which the miner resides or a location that is equally accessible to the miner. For example, examinations at the mine during, immediately preceding, or immediately following work and a "no appointment" examination at a medical facility in a community easily accessible to the residences of a majority of the miners working at the mine, shall be considered of equivalent convenience for purposes of this paragraph.

(e) Institute and NIOSH mean the National Institute for Occupational Safety and Health Center for Disease Control, Public Health Service, Department of Health and Human Services.

(f) ILO-U/C Classification means the classification of radiographs of the pneumoconioses devised in 1971 by an international committee of the International Labor Office and described in "Medical Radiography and Photography," volume 48, No. 3, December 1972. "ILO Classification" means the classification of radiographs of the pneumoconioses revised in 1980 by an international committee of the International Labor Office and described in "Medical Radiography and Photography" volume 57, No. 1, 1981, and in ILO publication 22 (revised 1980) from the ILO Occupational Safety and Health Series.

(g) Miner means any individual including any coal mine construction worker who is working in or at any underground coal mine, but does not include any surface worker who does not have direct contact with underground coal mining or with coal processing operations.

(h) Operator means any owner, lessee, or other person who operates, controls, or supervises an underground coal mine or any independent contractor performing services or construction at such mine.

(i) Panel of 'B' Readers means the U.S. Public Health Service Consultant Panel of "B" Readers, c/o ALOSH, P.O. Box 4258, Morgantown, WV 26505.

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(j) Preemployment physical examination means any medical examination which includes a chest roentgenographic examination given in accordance with the specifications of this subpart to a person not previously employed by the same operator or at the same mine for which that person is being considered for employment.

(k) Secretary means the Secretary of Health and Human Services and any other officer or employee of the Department of Health and Human Services to whom the authority involved

may be delegated.

(1) MSHA means the Mine Safety and Health Administration, Department of Labor.

[43 FR 33715, Aug. 1, 1978, as amended at 49 FR 7563, Mar. 1, 1984]

§ 37.3 Chest roentgenograms required for miners.

(a) Voluntary examinations. Every operator shall provide to each miner who is employed in or at any of its underground coal mines and who was employed in underground coal mining prior to December 30, 1969, or who has completed the required examinations under §37.3(b) an opportunity for a chest roentgenogram in accordance with this subpart:

(1) Following August 1, 1978 ALOSH will notify the operator of each underground coal mine of a period within which the operator may provide examinations to each miner employed at its coal mine. The period shall begin no sooner than the effective date of these regulations and end no later than a date specified by ALOSH separately for each coal mine. The termination date of the period will be approximately 5 years from the date of the first examination which was made on a miner employed by the operator in its coal mine under the former regulations of this subpart adopted July 27, 1973. Within the period specified by ALOSH for each mine, the operator may select a 6-month period within which to provide examinations in accordance with a plan approved under §37.5.

Example: ALOSH finds that between July 27, 1973, and March 31, 1975, the first roent-genogram for a miner who was employed armine Y and who was employed in underground coal mining prior to December 30,

1969, was made on January 1, 1974. ALOSH will notify the operator of mine Y that the operator may select and designate on its plan a 6-month period within which to offer its examinations to its miners employed at mine Y. The 6-month period shall be scheduled between August 1, 1978 and January 1, 1979 (5 years after January 1, 1974).

(2) For all future voluntary examinations, ALOSH will notify the operator of each underground coal mine when sufficient time has elapsed since the examinations. ALOSH will specify to accordance with operator of each mine a new to accordance with the opera within which the operator may provide examinations to its miners employed at its coal mine. The period shall begin no sooner than 31/2 years and end no later than 41/2 years subsequent to the ending date of the previous 6-month pe riod specified for a coal mine either by the operator on an approved plan or by ALOSH if the operator did not submit an approved plan. Within the period specified by ALOSH for each mine, the operator may select a 6-month period within which to provide examination in accordance with a plan approved under § 37.5.

Example: ALOSH finds that examination were previously provided to miners employed at mine Y in a 6-month period from July 1979, to December 31, 1979. ALOSH notification the operator at least 3 months before July 1983 (3½ years after December 31, 1979) that the operator may select and designate on 10 plan the next 6-month period within which to offer examinations to its miners employed at mine Y. The 6-month period shall scheduled between July 1, 1983, and July 1984 (between 3½ and 4½ years after December 31, 1979).

(3) Within either the next or future period(s) specified by ALOSH to the operator for each of its coal mines, to operator of the coal mine may select different 6-month period for each of mines within which to offer examinations. In the event the operator to not submit an approved plan, ALOS will specify a 6-month period to the erator within which miners shall in the opportunity for examinations.

(b) Mandatory examinations. Every erator shall provide to each miner begins working in or at a coal mine the first time after December 30, 19

(1) An initial chest roentgenogramsoon as possible, but in no event than 6 months after commencement

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August 1, 197 mifilling this following the miner is still coal mining.
Fiven to a minegulations un August 1, 1978 filling this req (3) A third Years following Chogram if the Lounderground Mond roentge category 1, cceumoconiose: (c) ALOSH 1 hen he or she scond or third ion under (b) ALOSH w. rator when the condexam examination Vritten consoperator shareson for the think SH that the tion is due of notified, enographic perator's pla o provide a e examinat. The opportur to be a Tipurposes (wided in acc been sub wance with

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imployment. A preemployment phys-cal examination which was made within the 6 months prior to the date on which the miner started to work will be considered as fulfilling this requirement: An initial chest roentgenogram tiven to a miner according to former regulations for this subpart prior to August 1, 1978 will also Milling this requirement.

A second chest roentg August 1, 1978 will also be considered as

(2) A second chest roentgenogram, in accordance with this subpart, 3 years following the initial examination if the miner is still engaged in underground coal mining. A second roentgenogram

coal mining. A second roentgenogram given to a miner according to former regulations under this subpart prior to August 1, 1978 will be considered as fulfilling this requirement.

(3) A third chest roentgenogram 2 years following the second chest roentgenogram if the miner is still engaged in underground coal mining and if the second roentgenogram shows evidence second roentgenogram shows evidence of category 1, category 2, category 3 simple pneumoconioses, or complicated pneumoconioses (ILO Classification).

(c) ALOSH will notify the miner when he or she is due to receive the second or third mandatory examination under (b) of this section. Simiemployed tion under (b) of this section. Simim July 1 larly, ALOSH will notify the coal mine I notifies. Operator when the miner is to be given operator when the miner is to be given a second examination. The operator will be notified concerning a miner's third examination only with the min-er's written consent, and the notice to the operator shall not state the medcal reason for the examination nor that it is the third examination in the series. If the miner is notified by ALOSH that the third mandatory examination is due and the operator is not so notified, availability of the roentgenographic examination under the operator's plan shall constitute the operator's compliance with the requirement to provide a third mandatory examination even if the miner refuses to take the examination.

(d) The opportunity for chest roentgenograms to be available by an operator for purposes of this subpart shall be provided in accordance with a plan which has been submitted and approved in accordance with this subpart.

(e) Any examinations conducted by the Secretary in the National Study of Coal Workers' Pneumoconiosis after January 1, 1977, but before August 1, 1978 shall satisfy the requirements of this section with respect to the specific examination given (see §37.6(d)).

[43 FR 33715, Aug. 1, 1978; 43 FR 38830, Aug. 31, 1978, as amended at 49 FR 7563, Mar. 1, 1984]

§37.4 Plans for chest roentgenographic examinations.

Every (a) plan for roentgenographic examinations of miners shall be submitted on forms prescribed by the Secretary to ALOSH within 120 calendar days after August 1, 1978. In the case of a person who after August 1, 1978, becomes an operator of a mine for which no plan has been approved, that person shall submit a plan within 60 days after such event occurs. A separate plan shall be submitted by the operator and by each construction contractor for each underground coal mine which has a MSHA identification number. The plan shall include:

(1) The name, address, and telephone number of the operator(s) submitting

the plan;

(2) The name, MSHA identification number for respirable dust measurements, and address of the mine included in the plan;

(3) The proposed beginning and ending date of the 6-month period for voluntary examinations (see §37.3(a)) and the estimated number of miners to be given or offered examinations during the 6-month period under the plan;

(4) The name and location of the approved X-ray facility or facilities, and the approximate date(s) and time(s) of day during which the roentgenograms will be given to miners to enable a determination of whether the examinations will be conducted at a convenient time and place;

(5) If a mobile facility is proposed, the plan shall provide that each miner be given adequate notice of the opportunity to have the examination and that no miner shall have to wait for an examination more than 1 hour before or after his or her work shift. In addition, the plan shall include:

(i) The number of change houses at the mine.

(ii) One or more alternate nonmobile approved facilities for the reexamination of miners and for the mandatory examination of miners when necessary

(see §37.3(b)), or an assurance that the mobile facility will return to the location(s) specified in the plan as frequently as necessary to provide for examinations in accordance with these regulations.

(iii) The name and location of each change house at which examinations will be given. For mines with more than one change house, the examinations shall be given at each change house or at a change house located at a convenient place for each miner.

(6) The name and address of the "A" or "B" reader who will interpret and classify the chest roentgenograms.

(7) Assurances that: (i) The operator will not solicit a physician's roentgenographic or other findings concerning any miner employed by the operator.

(ii) Instructions have been given to the person(s) giving the examinations that duplicate roentgenograms or copies of roentgenograms will not be made and that (except as may be necessary for the purpose of this subpart) the physician's roentgenographic and other findings, as well as the occupational history information obtained from a miner unless obtained prior to employment in a preemployment examination, and disclosed prior to employment, will not be disclosed in a manner which will permit identification of the employee with the information about him, and

(iii) The roentgenographic examinations will be made at no charge to the miner.

(b) Operators may provide for alternate facilities and "A" or "B" readers in plans submitted for approval.

(c) The change of operators of any mine operating under a plan approved pursuant to §37.5 shall not affect the plan of the operator which has transferred responsibility for the mine. Every plan shall be subject to revision in accordance with paragraph (d) of this section.

(d) The operator shall advise ALOSH of any change in its plan. Each change in an approved plan is subject to the same review and approval as the originally approved plan.

(e) The operator shall promptly display in a visible location on the bulletin board at the mine its proposed

plan or proposed change in plan when it is submitted to ALOSH. The proposed plan or change in plan shall remain posted in a visible location on the bulletin board until ALOSH either grants or denies approval of it at which time the approved plan or denial of approval shall be permanently posted. In the case of an operator who is a construction contractor and who does not have a bulletin board, the construction contractor must otherwise notify its employees of the examination arrange comments. Upon request, the contractor employees of the examination arrangements. Upon request, the contractor

ments. Upon request, the contractor must show ALOSH written evidence that its employees have been notified.

(f) Upon notification from ALOSH that sufficient time has elapsed since the previous period of examinations the operator will resubmit its plan for each of its coal mines to ALOSH for approval for the next period of examinations (see § 37.3(a)(2)). The plan shall include the proposed beginning and ending dates of the next period of examinations and all information required by prove nations and all information required by paragraph (a) of this section.

[43 FR 33715, Aug. 1, 1978; 43 FR 38830, Aug. 31 1978]

§ 37.5 Approval of plans.

(a) Approval of plans granted prior to August 1, 1978 is no longer effective.

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(b) If, after review of any plan submitted pursuant to this subpart, the Secretary determines that the action to be taken under the plan by the oper ator meets the specifications of this subpart and will effectively achieve its purpose, the Secretary will approve the plan and notify the operator(s) submitting the plan of the approval. Approval ranges may be conditioned upon such terms as the Secretary deems necessary to carry out the purpose of section 203 of the

(c) Where the Secretary has reason to believe that he will deny approval of plan he will, prior to the denial, give reasonable notice in writing to the op erator(s) of an opportunity to amend the plan. The notice shall specify the ground upon which approval is proposed to be denied.

(d) If a plan is denied approval, the Secretary shall advise the operator(s) in writing of the reasons for the denial

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operator(s)

37.6 Chest roentgenographic exami-

(a) The Secretary will give chest rentgenograms or make arrangements ith an appropriate person, agency, or institution to give the chest roentgenoinstitution to give the chest roentgeno-rrams and with "A" or "B" readers to interpret the roentgenograms required under this subpart in the locality where the miner resides, at the mine, or at a medical facility easily acces-sible to a mining community or mining communities, under the following circumstances:
(1) Where, in the judgment of the

en evidence (1) Where, in the judgment of the n notified.

Secretary, due to the lack of adequate medical or other necessary facilities or personnel at the mine or in the locality where the miner resides, the required residual to personnel at the mine or in the locality where the miner resides, the required residual to personnel at the miner resides, the required residual to personnel at the miner resides, the required residual to personnel at the miner residual to p

mitted an approvable plan.

(3) Where, after commencement of an operator's program pursuant to an approved plan and after notice to the operator of his failure to follow the approved plan and after notice to the operator of his failure to follow the approved plan and after notice to the operator of his failure to follow the approximation. proved plan and, after allowing 15 cal-endar days to bring the program into compliance, the Secretary determines and notifies the operator in writing that the operator's program still fails to comply with the approved plan.

to comply with the approved plan.

(b) The operator of the mine shall reflective.

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cons of this ranged by the Secretary will comply approve the with the time requirements of §37.3.

T(s) submit. Whenever the Secretary gives or aral. Approval transes for the examinations of miners ich terms as ta time, a written notice of the array to corry rangements will be sent to the operator who shall post the notice on the mine

who shall post the notice on the mine bulletin board.
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the operator For future examinations and Operator. For future examinations and for mandatory examinations each par-

ticipating operator shall submit an approvable plan.

§37.7 Transfer of affected miner to less dusty area.

(a) Any miner who, in the judgment of the Secretary based upon the interpretation of one or more of the miner's chest roentgenograms, shows category 1 (1/0, 1/1, 1/2), category 2 (2/1, 2/2, 2/3), or category 3 (3/2, 3/3, 3/4) simple complicated pneumoconioses, orpneumoconioses (ILO Classification) shall be afforded the option of transferring from his or her position to another position in an area of the mine where the concentration of respirable dust in the mine atmosphere is not more than 1.0 mg/m³ of air, or if such level is not attainable in the mine, to a position in the mine where the concentration of respirable dust is the lowest attainable below 2.0 mg/m^3 of air.

(b) Any transfer under this section shall be in accordance with the procedures specified in part 90 of title 30, Code of Federal Regulations.

[43 FR 33715, Aug. 1, 1978; 43 FR 38830, Aug. 31, 1978, as amended at 44 FR 23085, Apr. 18, 1979; 49 FR 7563, Mar. 1, 1984]

§ 37.8 Roentgenographic examination at miner's expense.

Any miner who wishes to obtain an examination at his or her own expense at an approved facility and to have submitted to NIOSH for him or her a complete examination may do so, provided that the examination is made no sooner than 6 months after the most recent examination of the miner submitted to ALOSH. ALOSH will provide an interpretation and report of the examinations made at the miner's expense in the same manner as if it were submitted under an operator's plan. Any change in the miner's transfer rights under the act which may result from this examination will be subject to the terms of §37.7.

§ 37.20 Miner identification document.

As part of the roentgenographic examination, a miner identification document which includes an occupational history questionnaire shall be completed for each miner at the facility where the roentgenogram is made at

the same time the chest roentgenogram required by this subpart is given.

SPECIFICATIONS FOR PERFORMING CHEST ROENTGENOGRAPHIC EXAMINATIONS

§ 37.40 General provisions.

(a) The chest roentgenographic examination shall be given at a convenient time and place.

(b) The chest roentgenographic examination consists of the chest roentgenogram, and a complete Roentgenographic Interpretation Form (Form CDC/NIOSH (M) 2.8), and miner identification document.

(c) A roentgenographic examination shall be made in a facility approved in accordance with §37.42 by or under the supervision of a physician who regularly makes chest roentgenograms and who has demonstrated ability to make chest roentgenograms of a quality to best ascertain the presence of pneumoconiosis.

§ 37.41 Chest roentgenogram specifications.

(a) Every chest roentgenogram shall be a single posteroanterior projection at full inspiration on a film being no less than 14 by 17 inches and no greater than 16 by 17 inches. The film and cassette shall be capable of being positioned both vertically and horizontally so that the chest roentgenogram will include both apices and costophrenic angles. If a miner is too large to permit the above requirements, then the projection shall include both apices with minimum loss of the costophrenic angle.

(b) Miners shall be disrobed from the waist up at the time the roentgenogram is given. The facility shall provide a dressing area and for those miners who wish to use one, the facility shall provide a clean gown. Facilities shall be heated to a comfortable temperature.

(c) Roentgenograms shall be made only with a diagnostic X-ray machine having a rotating anode tube with a maximum of a 2 mm. source (focal spot).

(d) Except as provided in paragraph (e) of this section, roentgenograms shall be made with units having generators which comply with the fol-

lowing: (1) The generators of existing roentgenographic units acquired by the examining facility prior to July 27, 1973, shall have a minimum rating of 200 mA at 100 kVp.; (2) generators of units acquired subsequent to that date shall have a minimum rating of 300 mA at 125 kVp.

NOTE: A generator with a rating of 150 kVp. is recommended.

(e) Roentgenograms made with battery-powered mobile or portable equipment shall be made with units having a minimum rating of 100 mA at 110 kVp. at 500 Hz, or of 200 mA at 110 kVp. at 60 Hz.

(f) Capacitor discharge and field emission units may be used if the model of such units is approved by ALOSH for quality, performance, and safety. ALOSH will consider such units for approval when listed by a facility seeking approval under §37.42 of this subpart.

(g) Roentgenograms shall be given only with equipment having a beam limiting device which does not causal large unexposed boundaries. The beam limiting device shall provide rectangular collimation and shall be of the type described in part F of the suggested State regulations for the control of radiation or (for beam limiting devices manufactured after August 1, 1974) of the type specified in 21 CFR 1020.31. The use of such a device shall be discernible from an examination of the roentgenogram.

(h) To insure high quality chest roentgenograms:

(1) The maximum exposure time shall not exceed ½0 of a second except that with single phase units with a rating less than 300 mA at 125 kVp. and subjects with chests over 28 cm posteroanterior, the exposure may be increased to not more than ½0 of a second:

(2) The source or focal spot to film distance shall be at least 6 feet;

(3) Medium speed film and medium speed intensifying screens are recommended. However, any film-screen combination, the rated "speed" which is at least 100 and does not exceed 300, which produces roentgenograms with spatial resolution, contrast, latitude and quantum mottless

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to those of systems designated 'medium speed'' may be employed; Film-screen contact shall be mfained and verified at 6 month or

of intervals; intensifying screens shall be ind at least once a month and wid when necessary by the method mmended by the manufacturer;

() All intensifying screens in a cas-biall be of the same type and by the same manufacturer:

when using over 90 kV., a suitable

or other means of reducing scat-radiation shall be used;

The geometry of the radiographic (rm, shall insure that the central (ray) of the primary beam is perand impinges on the center of the on the center of the

(i) Radiographic processing:
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(ii) If mineral or other impurities in

(b) If mineral or other impurities in processing water introduce difficulty in obtaining a high-quality pentgenogram, a suitable filter or pulication system shall be used.

dication system shall be used.

(i) Before the miner is advised that the camination is concluded, the interpolation is concluded in the interpolation is a case of the interpolation is controlled. In a case of the interpolation is controlled in the interpolation in the interpolation is controlled. Library to ALOSH for disposal.

(k) An electric power supply shall be used which complies with the voltage, Current and and a case of the complex shall be clearly marked as rejected and promption of the complex supply shall be used which complies with the voltage, current and real-time provising by the

spot to film current, and regulation specified by the manufacturer of the machine.

ieet;
ind medium s are rectifilm-screen in objective evaluation of film quality at the discretion of ALOSH.

"speed" of L(m) Each roentgenogram made here-loes not ex- under shall be permanently and legibly marked with the name and address or ALOSH approval number of the facility

at which it is made, the social security number of the miner, and the date of the roentgenogram. No other identifying markings shall be recorded on the roentgenogram.

[43 FR 33715, Aug. 1, 1978, as amended at 52 FR 7866, Mar. 13, 1987]

§ 37.42 Approval of roentgenographic facilities.

(a) Approval of roentgenographic facilities given prior to January 1, 1976, shall terminate upon August 1, 1978 unless each of the following conditions have been met:

(1) The facility must verify that it still meets the requirements set forth in the regulations for the second round of roentgenographic examinations (38 FR 20076) and it has not changed equipment since it was approved by NIOSH.

(2) From July 27, 1973, to January 1, 1976, the facility submitted to ALOSH at least 50 roentgenograms which were interpreted by one or more "B" readers not employed by the facility who found no more than 5 percent of all the roentgenograms unreadable.

(b) Other facilities will be eligible to participate in this program when they demonstrate their ability to make high quality diagnostic chest roentgenograms by submitting to ALOSH six or more sample chest roentgenograms made and processed at the applicant facility and which are of acceptable quality to the Panel of "B" readers. Applicants shall also submit a roentgenogram of a plastic step-wedge object (available on loan from ALOSH) which was made and processed at the same time with the same technique as the roentgenograms submitted and processed at the facility for which approval is sought. At least one chest roentgenogram and one test object roentgenogram shall have been made with each unit to be used hereunder. All roentgenograms shall have been made within 15 calendar days prior to submission and shall be marked to identify the facility where each roentgenogram was made, the X-ray machine used, and the date each was made. The chest roentgenograms will be returned and may be the same roentgenograms submitted pursuant to §37.51.

NOTE: The plastic step-wedge object is described in an article by E. Dale Trout and

§ 37.43 Protection against radiation emitted by roentgenographic equipment.

Except as otherwise specified in § 37.41, roentgenographic equipment, its use and the facilities (including mobile facilities) in which such equipment used, shall conform to applicable State and Federal regulations (See 21 CFR part 1000). Where no applicable regula tions exist, roentgenographic equip ment, its use and the facilities (include ing mobile facilities) in which such equipment is used shall conform to the recommendations of the National Council on Radiation Protection and Measurements in NCRP Report No. "Medical X-ray and Gamma-Ray Protection for Energies up to 10 Mey Equipment Design and Use" (issue February 1, 1968), in NCRP Report 1648, "Medical Radiation Protection of Medical and Allied Health Personnel (issued August 1, 1976), and in NOR. Report No. 49, "Structural Shielding Design and Evaluation for Medical U of X-rays and Gamma Rays of up to MeV" (issued September 15, 17). These documents are hereby in porated by reference and made a of this subpart. These documents available for examination at ALOS 944 Chestnut Ridge Road, Morganto WV 26505, and at the National Institut for Occupational Safety and Heal 5600 Fishers Lane, Rockville, MD 20 Copies of NCRP Reports Nos. 33, 48 49 may be purchased for \$3, \$4.50, \$3.50 each, respectively, from No. Publications, P.O. Box 30175, ington, DC 20014.

SPECIFICATIONS FOR INTERPRETATE CLASSIFICATION, AND SUBMISSION CHEST ROENTGENOGRAMS

classifi §37.50 Interpreting and chest roentgenograms.

(a) Chest roentgenograms shall terpreted and classified in accorwith the ILO Classification system recorded on a Roentgenographic pretation Form (Form CDC/ (M)2.8).

(b) Roentgenograms shall be preted and classified only by cian who regularly reads chest genograms and who has demonstrated classifying in proficiency

John P. Kelley appearing in "The American Journal of Roentgenology, Radium Therapy and Nuclear Medicine," Vol. 117, No. 4, April

(c) Each roentgenographic facility submitting chest roentgenograms for approval under this section shall complete and include an X-ray facility document describing each X-ray unit to be used to make chest roentgenograms under the act. The form shall include: (1) The date of the last radiation safety inspection by an appropriate licensing agency or, if no such agency exists, by a qualified expert as defined in NCRP Report No. 33 (see §37.43); (2) the deficiencies found; (3) a statement that all the deficiencies have been corrected; and (4) the date of acquisition of the Xray unit. To be acceptable, the radiation safety inspection shall have been made within 1 year preceding the date of application.

(d) Roentgenograms submitted with applications for approval under this section will be evaluated by the panel of "B" Readers or by a qualified radiological physicist or consultant. Applicants will be advised of any reasons for

denial of approval.

(e) ALOSH or its representatives may make a physical inspection of the applicant's facility and any approved roentgenographic facility at any reasonable time to determine if the requirements of this subpart are being met.

(f) ALOSH may require a facility periodically to resubmit roentgenograms of a plastic step-wedge object, sample roentgenograms. orRoentgenographic Facility Document for quality control purposes. Approvals granted hereunder may be suspended or withdrawn by notice in writing when in the opinion of ALOSH the quality of roentgenograms or information submitted under this section warrants such action. A copy of a notice withdrawing approval will be sent to each operator who has listed the facility as its facility for giving chest roentgenograms and shall be displayed on the mine bulletin board adjacent to the operator's approved plan. The approved

[43 FR 33715, Aug. 1, 1978; 43 FR 38830, Aug. 31,

plan will be reevaluated by ALOSH in

light of this change.

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Public Health

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(c) All interpreting chest under the Act available for 1 of the ILO Int of Radiograph 1980.

Note: This set nue, NW., Washi 7(6-2315). M(d) In all viev

Enterpretations (1) Fluorescer taneously repla month interva (2) All the f inel of boxes manufacturer's and color:

(3) The glass, des, and the

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cimoconioses in accordance with

O'All interpreters, whenever inter-ting chest roentgenograms made the Act, shall have immediately tilable for reference a complete set ILO International Classification

Radiographs for Pneumoconioses,
This set is available from the Interconal Labor Office, 1750 New York Ave-NW., Washington, DC 20006 (Phone: 202/

(1) In all view boxes used for making interpretations:

(1) Fluorescent lamps shall be simulreplaced with new lamps at (Chonth intervals:

All the fluorescent lamps in a ineli of boxes shall have identical und color;

(3) The glass, internal reflective sur-

(1) The unit shall be so situated as to minimize front surface glare.

10 FR 33715, Aug. 1, 1978, as amended at 49 19584; Mar. 1, 1984]

tems for pneumoconioses. classifying the

(a) First or "A" readers:

Approval as an "A" reader shall time if established prior to (insert) cive date of these regulations).

(2) Physicians who desire to be "A"

ders must demonstrate their proclency in classif classifying the

Submitting to ALOSH from the Physician's files six sample chest configenograms which are considered operly classified by the Panel of "B" class. The six roentgenograms shall consist of two without pneumoconiosis, with simple pneumoconiosis, and wo with complicated pneumoconiosis.

The films will be returned to the physical The interpretations shall be on Roentgenographic Interpretation (Form CDC/NIOSH (M) 2.8) these may be the same roentgeno-submitted pursuant to §37.42),

Satisfactory completion, since ine 11, 1970, of a course approved by OSH on the ILO or ILO-U/C Classification systems or the UICC/Cincinnati classification system. As used in this subparagraph, "UICC/Cincinnati classification" means the classification of the pneumoconioses devised in 1968 by a Working Committee of the International Union Against Cancer.

(b) Final or "B" readers:

(1) Approval as a "B" reader established prior to October 1, 1976, shall hereby be terminated.

(2) Proficiency in evaluating chest roentgenograms for roentgenographic quality and in the use of the ILO Classification for interpreting chest roentgenograms for pneumoconiosis and other diseases shall be demonstrated by those physicians who desire to be "B" readers by taking and passing a specially designed proficiency examination given on behalf of or by ALOSH at a time and place specified by ALOSH. Each physician must bring a complete set of the ILO standard reference radiographs when taking the examination. Physicians who qualify under this provision need not be qualified under paragraph (a) of this section.

(c) Physicians who wish to participate in the program shall make application on an Interpreting Physician Certification Document (Form CDC/ NIOSH (M) 2.12).

[43 FR 33715, Aug. 1, 1978, as amended at 49 FR 7564, Mar. 1, 1984]

§37.52 Method of obtaining definitive interpretations.

(a) All chest roentgenograms which are first interpreted by an "A" or "B" reader will be submitted by ALOSH to a "B" reader qualified as described in §37.51. If there is agreement between the two interpreters as defined in paragraph (b) of this section the result shall be considered final and reported to MSHA for transmittal to the miner. When in the opinion of ALOSH substantial agreement is lacking, ALOSH shall obtain additional interpretations from the Panel of "B" readers. If interpretations are obtained from two or more "B" readers, and if two or more are in agreement then the highest major category shall be reported.

(b) Two interpreters shall be considered to be in agreement when they

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both find either stage A, B, or C complicated pneumoconiosis, or their findings with regard to simple pneumoconiosis are both in the same major category, or (with one exception noted below) are within one minor category (ILO Classification 12-point scale) of each other. In the last situation, the higher of the two interpretations shall be reported. The only exception to the one minor category principle is a reading sequence of 0/1, 1/0, or 1/0, 0/1. When such a sequence occurs, it shall not be considered agreement, and a third (or more) interpretation shall be obtained until a consensus involving two or more readings in the same major category is obtained.

[43 FR 33715, Aug. 1, 1978, as amended at 49 FR 7564, Mar. 1, 1984; 52 FR 7866, Mar. 13, 1987]

§ 37.53 Notification of abnormal roentgenographic findings.

(a) Findings of, or findings suggesting, enlarged heart, tuberculosis. lung cancer, or any other significant abnormal findings other than pneumoconiosis shall be communicated by the first physician to interpret and classify the roentgenogram to the designated physician of the miner indicated on the miner's identification document. A copy of the communication shall be submitted to ALOSH. ALOSH will notify the miner to contact his or her physician when any physician who interprets and classifies the miner's roentgenogram reports significant abnormal findings other than pneumoconiosis.

(b) In addition, when ALOSH has more than one roentgenogram of a miner in its files and the most recent examination was interpreted to show enlarged heart, tuberculosis, cancer, complicated pneumoconiosis, and any other significant abnormal findings, ALOSH will submit all of the miner's roentgenograms in its files with their respective interprtations to a "B" reader. The "B" reader will report any significant changes or progression of disease or other comments to ALOSH and ALOSH shall submit a copy of the report to the miner's designated physician.

(c) All final findings regarding pneumoconiosis will be sent to the miner by MSHA in accordance with section 203 of the act (see 30 CFR part 90). Positive

findings with regard to pneumoconios will be reported to the miner's degrated physician by ALOSH.

(d) ALOSH will make every reasonable effort to process the findings described in paragraph (c) of this section within 60 days of receipt of the information described in §37.60 in a complete and acceptable form. The information forwarded to MSHA will be inform intended to facilitate prompt dispatch of the findings to the miner. The results of an examination made of miner will not be processed by ALOSH if the examination was made within months of the date of a previous acceptable examination.

§ 37.60 Submitting required cherrical roentgenograms and miner identification documents.

(a) Each chest roentgenogram a quired to be made under this subpart together with the complete roentgenographic interpretation form and the completed miner identification document, shall be sumitted together for each miner to ALOSH within 14 call endar days after the roentgenographic examination is given and become the property of ALOSH.

(b) If ALOSH deems any part submitted under paragraph (a) of this section inadequate, it will notify the operator of the deficiency. The operator shall promptly make appropriate arrangements for the necessary reexamination.

(c) Failure to comply with paragraph (a) or (b) of this section shall be cause to revoke approval of a plan or any other approval as may be appropriated An approval which has been revoked may be reinstated at the discretion ALOSH after it receives satisfactor assurances and evidence that all deficiencies have been corrected and that effective controls have been institute to prevent a recurrence.

(d) Chest roentgenograms and other required documents shall be submitted only for miners. Results of preemployment physical examinations of person who are not hired shall not be submitted.

(e) If a miner refuses to participate all phases of the examination poscribed in this subpart, no report needs

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be made. If a miner refuses to participate in any phase of the examination prescribed in this subpart, all the forms shall be submitted with his or her name and social security account number on each. If any of the forms cannot be completed because of the miner's refusal, it shall be marked miner s refuses," and shall be submitted. No submission shall be made, however, without a completed miner Gentification document containing the miner's name, address, social security number and place of employment. REVIEW AND AVAILABILITY OF RECORDS

(\$7.70 Review of interpretations.

(a) Any miner who believes the interpretation for pneumoconiosis reported to him or her by MSHA is in error may file a written request with ALOSH that his or her roentgenogram be reevaluated. If the interpretation was based on agreement between an "A" reader and "B" reader, ALOSH will obtain one of more additional interpretations by greement in accord with §37.52(b), and miner together with any rights which may accrue to the miner in accordance is sective. With §37.7. If the reported interpretation was based on agreement between erator two (or more) "B" readers, the reading will be accepted as conclusive and the miner shall be so informed by MSHA.

(b) Any operator who is directed by MSHA to transfer a miner to a less dusty atmosphere based on the most recent examination made subsequent to August 1, 1978, may file a written request with ALOSH to review its findings. The standards set forth in paragraph (a) of this section apply and the Operator and miner will be notified by MSHA whether the miner is entitled to the option to transfer.

37.80 Availability of records.

(a) Medical information and roentgenograms on miners will be released by ALOSH only with the written consent from the miner, or if the miner is deceased, written consent from the miner's widow, next of kin, or legal representative.

(b) To the extent authorized, roentgenograms will be made available for examination only at ALOSH.

Subpart—Autopsies

AUTHORITY: Sec. 508, 83 Stat. 803; 30 U.S.C.

Source: 36 FR 8870, May 14, 1971, unless otherwise noted.

§37.200 Scope.

The provisions of this subpart set forth the conditions under which the Secretary will pay pathologists to obtain results of autopsies performed by them on miners.

§ 37.201 Definitions.

As used in this subpart:

(a) Secretary means the Secretary of

Health and Human Services.

(b) Miner means any individual who during his life was employed in any underground coal mine.

(c) Pathologist means

(1) A physician certified in anatomic pathology or pathology by the American Board of Pathology or the American Osteopathic Board of Pathology,

(2) A physician who possesses qualifications which are considered "Board of eligible" by the American Board of Pathology or American Osteopathic

Board of Pathology, or

(3) An intern, resident, or other physician in a training program in pathology who performs the autopsy under the supervision of a pathologist as defined in paragraph (c) (1) or (2) of this section.

(d) ALFORD means the Appalachian Laboratory for Occupational Respiratory Diseases, Public Health Service, Department of Health and Human Services, Post Office Box 4257, Morgantown, WV 26505.

§ 37.202 Payment for autopsy.

(a) The Secretary will pay up to \$200 to any pathologist who, after the effective date of the regulations in this part and with legal consent:

(1) Performs an autopsy on a miner in accordance with this subpart; and

(2) Submits the findings and other materials to ALFORD in accordance with this subpart within 180 calendar